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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 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 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
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 n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2501.01 - 2685.0 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
NB UNII-5	Data	6106 - 6420 MHz
WPT	N/A	13.56 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with Apple's time-averaged method for Tx Power control for supported radio technologies. 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 regulatory requirements all the time. A centralized entity receives applicable reported time-averaged SAR and/or MPE values from each radio as well as usage statistics and processes this data to distribute dynamic budget allocations back to each radio. This method enables cross-technology budget sharing and enhances power optimization, while always maintaining overall RF exposure compliance.

The tables below defines the following parameters (SARtarget, SAR Design Limit, Plimit, nom and Pmax, nom values) for TAS operations.

1.2.1 SAR_design_target Calculations

Table 1-1
Antenna 1

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.06	1.2 W/kg	1.6 W/kg
UMTS 1750	0.97		
UMTS 1900	1.02		
LTE Band 71	1.02		
LTE Band 12	0.99		
LTE Band 17	0.99		
LTE Band 13	1.04		
LTE Band 14	1.06		
LTE Band 26	1.06		
LTE Band 5	1.06		
LTE Band 5 ULCA	1.06		
LTE Band 4	0.97		
LTE Band 66	0.97		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	1.04		
LTE Band 7	0.99		
LTE Band 7 ULCA	0.99		
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	0.97		
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	0.97		
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	0.97		
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	0.97		
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	0.95		
LTE Band 41 (PC3) ULCA - [Ch. 41055 - 41490]	0.95		
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	0.95		
LTE Band 41 (PC2) ULCA - [Ch. 41055 - 41490]	0.95		
LTE Band 48	0.86		
LTE Band 48 ULCA	0.86		
NR Band n71	0.99		
NR Band n12	0.99		
NR Band n14	1.04		
NR Band n26	1.06		
NR Band n5	1.04		
NR Band n70	0.97		
NR Band n66	0.95		
NR Band n2	1.02		
NR Band n25	1.02		
NR Band n30	1.04		
NR Band n7	0.97		
NR Band n41 (PC3) - [Ch. 518598]	0.84		
NR Band n41 (PC2) - [Ch. 518598]	0.84		
NR Band n41 (PC3) - [Ch. 528000]	0.84		
NR Band n41 (PC2) - [Ch. 528000]	0.84		
NR Band n48	0.83		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.97		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.97		
NR Band n77 (PC3) - [Ch. 650000]	0.91		
NR Band n77 (PC2) - [Ch. 650000]	0.91		
NR Band n77 (PC3) - [Ch. 662000]	0.93		
NR Band n77 (PC2) - [Ch. 662000]	0.93		

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Table 1-2
Antenna 2b

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	0.99	1.2 W/kg	1.6 W/kg
UMTS 1900	1.02		
LTE Band 4	0.99		
LTE Band 66	0.99		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	0.95		
LTE Band 7	0.99		
LTE Band 7 ULCA	0.99		
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	0.99		
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	0.99		
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	0.99		
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	0.99		
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	0.99		
LTE Band 41 (PC3) ULCA- [Ch. 41055 - 41490]	0.99		
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	0.99		
LTE Band 41 (PC2) ULCA- [Ch. 41055 - 41490]	0.99		
LTE Band 48	0.99		
LTE Band 48 ULCA	0.99		
NR Band n70	0.99		
NR Band n66	0.95		
NR Band n2	0.99		
NR Band n25	0.99		
NR Band n30	0.95		
NR Band n7	0.97		
NR Band n41 (PC3) - [Ch. 518598]	0.84		
NR Band n41 (PC2) - [Ch. 518598]	0.84		
NR Band n41 (PC3) - [Ch. 528000]	0.81		
NR Band n41 (PC2) - [Ch. 528000]	0.81		
NR Band n48	0.86		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.95		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.95		
NR Band n77 (PC3) - [Ch. 650000]	0.95		
NR Band n77 (PC2) - [Ch. 650000]	0.95		
NR Band n77 (PC3) - [Ch. 662000]	0.88		
NR Band n77 (PC2) - [Ch. 662000]	0.88		

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Table 1-3
Antenna 3

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.04	1.2 W/kg	1.6 W/kg
UMTS 1750	1.02		
UMTS 1900	1.02		
LTE Band 71	0.99		
LTE Band 12	0.99		
LTE Band 17	0.99		
LTE Band 13	1.02		
LTE Band 14	0.99		
LTE Band 26	1.04		
LTE Band 5	1.04		
LTE Band 5 ULCA	1.04		
LTE Band 4	1.02		
LTE Band 66	1.02		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	0.97		
LTE Band 7	0.91		
LTE Band 7 ULCA	0.91		
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	0.93		
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	0.93		
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	0.93		
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	0.93		
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	0.97		
LTE Band 41 (PC3) ULCA- [Ch. 41055 - 41490]	0.97		
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	0.97		
LTE Band 41 (PC2) ULCA- [Ch. 41055 - 41490]	0.97		
LTE Band 48	0.93		
LTE Band 48 ULCA	0.93		
NR Band n71	0.97		
NR Band n12	0.99		
NR Band n14	1.02		
NR Band n26	1.02		
NR Band n5	0.99		
NR Band n70	1.02		
NR Band n66	0.97		
NR Band n2	0.99		
NR Band n25	0.99		
NR Band n30	0.97		
NR Band n7	0.88		
NR Band n41 (PC3) - [Ch. 518598]	0.91		
NR Band n41 (PC2) - [Ch. 518598]	0.91		
NR Band n41 (PC3) - [Ch. 528000]	0.86		
NR Band n41 (PC2) - [Ch. 528000]	0.86		
NR Band n48	0.84		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.86		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.86		
NR Band n77 (PC3) - [Ch. 650000]	0.91		
NR Band n77 (PC2) - [Ch. 650000]	0.91		
NR Band n77 (PC3) - [Ch. 662000]	0.88		
NR Band n77 (PC2) - [Ch. 662000]	0.88		

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Table 1-4
Antenna 4b

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	1.02	1.2 W/kg	1.6 W/kg
UMTS 1900	1.02		
LTE Band 4	1.02		
LTE Band 66	1.02		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	0.99		
LTE Band 7	0.95		
LTE Band 7 ULCA	0.95		
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	0.95		
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	0.95		
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	0.95		
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	0.95		
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	1.02		
LTE Band 41 (PC3) ULCA- [Ch. 41055 - 41490]	1.02		
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	1.02		
LTE Band 41 (PC2) ULCA- [Ch. 41055 - 41490]	1.02		
LTE Band 48	0.97		
LTE Band 48 ULCA	0.97		
NR Band n70	0.97		
NR Band n66	0.99		
NR Band n2	0.99		
NR Band n25	0.99		
NR Band n30	0.99		
NR Band n7	0.95		
NR Band n41 (PC3) - [Ch. 518598]	0.86		
NR Band n41 (PC2) - [Ch. 518598]	0.86		
NR Band n41 (PC3) - [Ch. 528000]	0.84		
NR Band n41 (PC2) - [Ch. 528000]	0.84		
NR Band n48	0.83		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.97		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.97		
NR Band n77 (PC3) - [Ch. 650000]	0.97		
NR Band n77 (PC2) - [Ch. 650000]	0.97		
NR Band n77 (PC3) - [Ch. 662000]	0.97		
NR Band n77 (PC2) - [Ch. 662000]	0.97		

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Exposure Scenario:	Ant 1	Ant 1 Maximum Tune-up Output Power*	Ant 2b	Ant 2b Maximum Tune-up Output Power*	Ant 3	Ant 3 Maximum Tune-up Output Power*	Ant 4b	Ant 4b Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g	
Test Distance:	5 mm		5 mm		5 mm		5 mm	
OBD:	1, Body		1, Body		1, Body		1, Body	
Technology/Band	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)
UMTS 850	24.00	24.70	N/A	N/A	23.60	25.70	N/A	N/A
UMTS 1750	21.80	25.70	20.30	25.70	17.80	25.70	18.30	25.70
UMTS 1900	18.80	24.20	20.50	24.20	18.30	25.20	19.70	25.30
LTE Band 71	24.00	24.70	N/A	N/A	23.90	25.70	N/A	N/A
LTE Band 12	24.00	24.70	N/A	N/A	24.50	25.70	N/A	N/A
LTE Band 17	24.00	24.70	N/A	N/A	24.50	25.70	N/A	N/A
LTE Band 13	24.00	24.70	N/A	N/A	23.40	25.70	N/A	N/A
LTE Band 14	24.00	24.70	N/A	N/A	23.40	25.70	N/A	N/A
LTE Band 26	24.00	24.70	N/A	N/A	23.60	25.70	N/A	N/A
LTE Band 5	24.00	24.70	N/A	N/A	23.60	25.70	N/A	N/A
LTE Band 5 ULCA	24.00	24.70	N/A	N/A	23.60	25.70	N/A	N/A
LTE Band 4	21.80	25.70	20.30	25.70	17.80	25.70	18.00	25.70
LTE Band 66	21.80	25.70	20.30	25.70	17.80	25.70	18.30	25.70
LTE Band 2	18.80	24.20	20.50	24.20	18.30	25.20	19.70	25.30
LTE Band 25	18.80	24.20	20.50	24.20	18.30	25.20	19.70	25.30
LTE Band 30	20.50	23.70	20.50	24.20	17.60	22.90	19.20	23.20
LTE Band 7	18.30	24.20	20.60	24.20	18.80	25.20	19.10	25.30
LTE Band 7 ULCA	18.3	24.2	20.6	24.2	18.8	25.2	19.1	25.3
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	18.4	23.7	21.0	23.7	16.8	23.7	19.1	23.7
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	18.4	23.7	21.0	23.7	16.8	23.7	19.1	23.7
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	18.4	25.1	21.0	25.1	16.8	24.6	19.1	24.1
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	18.4	24.6	21.0	24.6	16.8	24.6	19.1	24.1
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	18.4	23.7	21.0	23.7	16.8	23.7	19.1	23.7
LTE Band 41 (PC3) ULCA - [Ch. 41055 - 41490]	18.4	23.7	21.0	23.7	16.8	23.7	19.1	23.7
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	18.4	25.1	21.0	25.1	16.8	24.6	19.1	24.1
LTE Band 41 (PC2) ULCA - [Ch. 41055 - 41490]	18.4	24.6	21.0	24.6	16.8	24.6	19.1	24.1
LTE Band 48	17.3	18.9	20.9	23.0	20.1	20.1	19.3	21.8
LTE Band 48 ULCA	17.3	18.9	20.9	23.0	20.1	20.1	19.3	21.8
NR Band n71	24.00	24.70	N/A	N/A	23.90	25.70	N/A	N/A
NR Band n12	24.00	24.70	N/A	N/A	24.50	25.70	N/A	N/A
NR Band n14	24.00	24.70	N/A	N/A	23.40	25.70	N/A	N/A
NR Band n26	24.00	24.70	N/A	N/A	23.60	25.70	N/A	N/A
NR Band n5	24.00	24.70	N/A	N/A	23.60	25.70	N/A	N/A
NR Band n70	21.80	25.70	20.30	25.70	17.80	25.20	18.30	25.30
NR Band n66	21.80	25.70	20.30	25.70	17.80	25.70	18.30	25.70
NR Band n2	18.80	24.20	20.50	24.20	18.30	25.20	19.70	25.30
NR Band n25	18.80	24.20	20.50	24.20	18.30	25.20	19.70	25.30
NR Band n30	20.50	23.70	20.50	24.20	17.60	22.90	19.20	23.20
NR Band n7	18.30	24.20	20.60	24.20	18.80	25.20	19.10	25.30
NR Band n41 (PC3) - [Ch. 518598]	18.40	28.70	21.00	28.70	16.80	28.20	19.10	27.70
NR Band n41 (PC2) - [Ch. 518598]	18.40	28.70	21.00	28.70	16.80	28.20	19.10	27.70
NR Band n41 (PC3) - [Ch. 528000]	18.40	28.70	21.00	28.70	16.80	28.20	19.10	27.70
NR Band n41 (PC2) - [Ch. 528000]	18.40	28.70	21.00	28.70	16.80	28.20	19.10	27.70
NR Band n48	17.30	20.90	20.90	25.00	20.50	22.10	19.30	23.80
NR Band n77 DoD (PC3) - [Ch. 633334]	21.20	25.00	19.80	25.00	18.20	25.70	18.10	25.70
NR Band n77 DoD (PC2) - [Ch. 633334]	21.20	25.50	19.80	25.50	18.20	27.50	18.10	27.00
NR Band n77 (PC3) - [Ch. 650000]	20.70	25.00	20.50	25.00	19.50	25.70	18.90	25.70
NR Band n77 (PC2) - [Ch. 650000]	20.70	25.50	20.50	25.50	19.50	27.50	18.90	27.00
NR Band n77 (PC3) - [Ch. 662000]	19.50	25.00	20.10	25.00	18.80	25.70	18.70	25.70
NR Band n77 (PC2) - [Ch. 662000]	19.50	25.50	20.10	25.50	18.80	27.50	18.70	27.00

*Note all P_{limit} 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 purpose of this report is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

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1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

1.3.1 WWAN Output Power

**Table 1-5
UMTS B5 (850 MHz)**

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA	24.00		23.60	
	Nominal	Rel 99	23.50		23.00	
	Max allowed power	3GPP HSDPA	24.00		23.60	
	Nominal	Rel 5	23.50		23.00	
	Max allowed power	3GPP HSUPA	24.00		23.60	
	Nominal	Rel 6	23.50		23.00	
	Max allowed power	3GPP DC-	24.00		23.60	
	Nominal	HSDPA Rel 8	23.50		23.00	

**Table 1-6
UMTS B4 (1750 MHz)**

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA	21.80	20.30	17.80	18.30
	Nominal	Rel 99	20.90	19.50	17.10	17.60
	Max allowed power	3GPP HSDPA	21.80	20.30	17.80	18.30
	Nominal	Rel 5	20.90	19.50	17.10	17.60
	Max allowed power	3GPP HSUPA	21.80	20.30	17.80	18.30
	Nominal	Rel 6	20.90	19.50	17.10	17.60
	Max allowed power	3GPP DC-	21.80	20.30	17.80	18.30
	Nominal	HSDPA Rel 8	20.90	19.50	17.10	17.60

**Table 1-7
UMTS B2 (1900 MHz)**

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA	18.80	20.50	18.30	19.70
	Nominal	Rel 99	18.10	19.80	17.60	19.00
	Max allowed power	3GPP HSDPA	18.80	20.50	18.30	19.70
	Nominal	Rel 5	18.10	19.80	17.60	19.00
	Max allowed power	3GPP HSUPA	18.80	20.50	18.30	19.70
	Nominal	Rel 6	18.10	19.80	17.60	19.00
	Max allowed power	3GPP DC-	18.80	20.50	18.30	19.70
	Nominal	HSDPA Rel 8	18.10	19.80	17.60	19.00

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Table 1-8
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
LTE FDD Band 71	Max allowed power	24.00		23.90	
	Nominal	23.30		23.10	
LTE FDD Band 12	Max allowed power	24.00		24.50	
	Nominal	23.20		23.70	
LTE FDD Band 17	Max allowed power	24.00		24.50	
	Nominal	23.20		23.70	
LTE FDD Band 13	Max allowed power	24.00		23.40	
	Nominal	23.40		22.70	
LTE FDD Band 14	Max allowed power	24.00		23.40	
	Nominal	23.50		22.60	
LTE FDD Band 26	Max allowed power	24.00		23.60	
	Nominal	23.50		23.00	
LTE FDD Band 5	Max allowed power	24.00		23.60	
	Nominal	23.50		23.00	
LTE FDD Band 5 Intra-band ULCA	Max allowed power	24.00		23.60	
	Nominal	23.50		23.00	
LTE FDD Band 4	Max allowed power	21.80	20.30	17.80	18.00
	Nominal	20.90	19.50	17.10	17.30
LTE FDD Band 66	Max allowed power	21.80	20.30	17.80	18.30
	Nominal	20.90	19.50	17.10	17.60
LTE FDD Band 2	Max allowed power	18.80	20.50	18.30	19.70
	Nominal	18.10	19.80	17.60	19.00
LTE FDD Band 25	Max allowed power	18.80	20.50	18.30	19.70
	Nominal	18.10	19.80	17.60	19.00
LTE FDD Band 30	Max allowed power	20.50	20.50	17.60	19.20
	Nominal	19.90	19.50	16.70	18.40
LTE FDD Band 7	Max allowed power	18.30	20.60	18.80	19.10
	Nominal	17.50	19.80	17.60	18.10
LTE FDD Band 7 Intra-band ULCA	Max allowed power	18.30	20.60	18.80	19.10
	Nominal	17.50	19.80	17.60	18.10
LTE TDD Band 38	Max allowed power	18.30	20.60	18.80	19.10
	Nominal	17.50	19.80	17.60	18.10
LTE TDD Band 38 Intra-band ULCA	Max allowed power	18.30	20.60	18.80	19.10
	Nominal	17.50	19.80	17.60	18.10
LTE TDD Band 41 (PC3) - [Ch. 39750 - 40620]	Max allowed power	20.40	23.00	18.80	21.10
	Nominal	19.50	22.20	17.70	20.10
LTE TDD Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	Max allowed power	20.40	23.00	18.80	21.10
	Nominal	19.50	22.20	17.70	20.10
LTE TDD Band 41 (PC2) - [Ch. 39750 - 40620]	Max allowed power	22.00	24.60	20.40	22.70
	Nominal	21.10	23.80	19.30	21.70
LTE TDD Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	Max allowed power	22.00	24.60	20.40	22.70
	Nominal	21.10	23.80	19.30	21.70
LTE TDD Band 41 (PC3) - [Ch. 41055 - 41490]	Max allowed power	20.40	23.00	18.80	21.10
	Nominal	19.40	22.20	17.90	20.40
LTE TDD Band 41 (PC3) ULCA- [Ch. 41055 - 41490]	Max allowed power	20.40	23.00	18.80	21.10
	Nominal	19.40	22.20	17.90	20.40
LTE TDD Band 41 (PC2) - [Ch. 41055 - 41490]	Max allowed power	22.00	24.60	20.40	22.70
	Nominal	21.00	23.80	19.50	22.00
LTE TDD Band 41 (PC2) ULCA- [Ch. 41055 - 41490]	Max allowed power	22.00	24.60	20.40	22.70
	Nominal	21.00	23.80	19.50	22.00
LTE TDD Band 48	Max allowed power	19.30	22.90	22.10	21.30
	Nominal	17.90	22.10	21.00	20.40
LTE TDD Band 48 Intra-band ULCA	Max allowed power	19.30	22.90	22.10	21.30
	Nominal	17.90	22.10	21.00	20.40

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**Table 1-9
NR Bands**

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
NR FDD Band n71	Max allowed power	24.00		23.90	
	Nominal	23.20		23.00	
NR FDD Band n12	Max allowed power	24.00		24.50	
	Nominal	23.20		23.70	
NR FDD Band n14	Max allowed power	24.00		23.40	
	Nominal	23.40		22.70	
NR FDD Band n26	Max allowed power	24.00		23.60	
	Nominal	23.50		22.90	
NR FDD Band n5	Max allowed power	24.00		23.60	
	Nominal	23.40		22.80	
NR FDD Band n70	Max allowed power	21.80	20.30	17.80	18.30
	Nominal	20.90	19.50	17.10	17.40
NR FDD Band n66	Max allowed power	21.80	20.30	17.80	18.30
	Nominal	20.80	19.30	16.90	17.50
NR FDD Band n2	Max allowed power	18.80	20.50	18.30	19.70
	Nominal	18.10	19.70	17.50	18.90
NR FDD Band n25	Max allowed power	18.80	20.50	18.30	19.70
	Nominal	18.10	19.70	17.50	18.90
NR FDD Band n30	Max allowed power	20.50	20.50	17.60	19.20
	Nominal	19.90	19.50	16.70	18.40
NR FDD Band n7	Max allowed power	18.30	20.60	18.80	19.10
	Nominal	17.40	19.70	17.50	18.10
NR TDD Band n38	Max allowed power	18.30	20.60	18.80	19.10
	Nominal	17.40	19.70	17.50	18.10
NR Band n41 (PC3) - [Ch. 518598]	Max allowed power	18.40	21.00	16.80	19.10
	Nominal	16.90	19.50	15.60	17.70
NR Band n41 (PC2) - [Ch. 518598]	Max allowed power	18.40	21.00	16.80	19.10
	Nominal	16.90	19.50	15.60	17.70
NR Band n41 (PC3) - [Ch. 528000]	Max allowed power	18.40	21.00	16.80	19.10
	Nominal	16.90	19.30	15.40	17.60
NR Band n41 (PC2) - [Ch. 528000]	Max allowed power	18.40	21.00	16.80	19.10
	Nominal	16.90	19.30	15.40	17.60
NR TDD Band n48	Max allowed power	17.30	20.90	20.50	19.30
	Nominal	15.70	19.50	19.00	17.70
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	Max allowed power	21.20	19.80	18.20	18.10
	Nominal	20.30	18.80	16.80	17.20
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	Max allowed power	21.20	19.80	18.20	18.10
	Nominal	20.30	18.80	16.80	17.20
NR TDD Band n77 C (PC3) - [Ch. 650000]	Max allowed power	20.70	20.50	19.50	18.90
	Nominal	19.50	19.50	18.30	18.00
NR TDD Band n77 C (PC2) - [Ch. 650000]	Max allowed power	20.70	20.50	19.50	18.90
	Nominal	19.50	19.50	18.30	18.00
NR TDD Band n77 C (PC3) - [Ch. 662000]	Max allowed power	19.50	20.10	18.80	18.70
	Nominal	18.40	18.80	17.50	17.80
NR TDD Band n77 C (PC2) - [Ch. 662000]	Max allowed power	19.50	20.10	18.80	18.70
	Nominal	18.40	18.80	17.50	17.80

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1.3.2

Maximum WLAN Time-Averaged Output Power

Note: Targets for 802.11be RU & MU operations can be found in 802.11be RU & MU SAR Exclusion Appendix.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a							
		SISO b	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.00	19.00	16.50	15.50	16.50	15.50	16.00	15.00
	2	20.00	19.00	19.00	18.00	19.00	18.00	18.00	17.00
	3	20.00	19.00	20.00	19.00	20.00	19.00	19.80	18.80
	4	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	5	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	6	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	7	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	8	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	9	20.00	19.00	19.50	18.50	19.50	18.50	19.00	18.00
	10	20.00	19.00	18.50	17.50	18.50	17.50	17.30	16.30
	11	20.00	19.00	16.50	15.50	16.50	15.50	16.00	15.00
	12	17.00	16.00	14.00	13.00	14.00	13.00	13.50	12.50
	13	15.50	14.50	8.50	7.50	8.50	7.50	6.00	5.00
Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a							
		MIMO CDD g/n (Maximum)	MIMO CDD g/n (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM g/n (Maximum)	MIMO SDM g/n (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	15.50	14.50	15.00	14.00	15.50	14.50	15.00	14.00
	2	18.50	17.50	18.00	17.00	18.50	17.50	18.00	17.00
	3	20.00	19.00	19.80	18.80	20.00	19.00	19.80	18.80
	4	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	5	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	6	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	7	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	8	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	9	19.00	18.00	18.80	17.80	19.00	18.00	18.80	17.80
	10	17.80	16.80	16.00	15.00	17.80	16.80	17.00	16.00
	11	16.50	15.50	15.50	14.50	16.50	15.50	15.50	14.50
	12	13.50	12.50	13.30	12.30	13.50	12.50	13.30	12.30
	13	6.50	5.50	3.50	2.50	6.50	5.50	3.50	2.50

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a							
		SISO b	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	19.25	18.25	16.00	15.00	16.00	15.00	16.00	15.00
	2	19.25	18.25	19.00	18.00	19.00	18.00	18.00	17.00
	3	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	4	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	5	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	6	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	7	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	8	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	9	19.25	18.25	19.00	18.00	19.00	18.00	18.80	17.80
	10	19.25	18.25	18.30	17.30	18.30	17.30	17.30	16.30
	11	19.25	18.25	17.00	16.00	17.00	16.00	16.00	15.00
	12	17.00	16.00	14.00	13.00	14.00	13.00	13.50	12.50
	13	15.50	14.50	6.50	5.50	6.50	5.50	3.50	2.50
Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a							
		MIMO CDD g/n (Maximum)	MIMO CDD g/n (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM g/n (Maximum)	MIMO SDM g/n (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	15.50	14.50	15.00	14.00	15.50	14.50	15.00	14.00
	2	18.50	17.50	18.00	17.00	18.50	17.50	18.00	17.00
	3	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	4	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	5	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	6	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	7	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	8	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	9	19.00	18.00	18.80	17.80	19.00	18.00	18.80	17.80
	10	17.80	16.80	17.00	16.00	17.80	16.80	17.00	16.00
	11	16.50	15.50	15.50	14.50	16.50	15.50	15.50	14.50
	12	13.50	12.50	13.30	12.30	13.50	12.50	13.30	12.30
	13	6.50	5.50	3.50	2.50	6.50	5.50	3.50	2.50

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	6.10	5.10	6.30	5.30	1.20	0.20	4.20	3.20
	5	7.00	6.00	7.10	6.10	2.00	1.00	5.00	4.00
	9-29	6.90	5.90	6.90	5.90	1.90	0.90	4.90	3.90
	33-61	6.80	5.80	7.00	6.00	2.10	1.10	5.00	4.00
	65-85	7.50	6.50	7.60	6.60	2.50	1.50	5.50	4.50
	89	7.60	6.60	7.70	6.70	2.70	1.70	5.70	4.70
	93	7.60	6.60	7.70	6.70	2.70	1.70	5.70	4.70
	97-113	6.60	5.60	6.60	5.60	1.40	0.40	4.40	3.40
	117-181	5.40	4.40	5.40	4.40	0.40	-0.60	3.30	2.30
	185	5.00	4.00	5.20	4.20	0.20	-0.80	3.10	2.10
	189-225	4.80	3.80	5.00	4.00	1.10	0.10	3.80	2.80
	229	4.80	3.80	5.10	4.10	1.20	0.20	3.90	2.90
	233	4.10	3.10	4.30	3.30	0.10	-0.90	2.80	1.80
	3			9.10	8.10	4.10	3.10	7.10	6.10
	11			9.80	8.80	4.80	3.80	7.80	6.80
6 GHz WiFi (40MHz BW) LP	19-27			9.90	8.90	4.90	3.90	7.90	6.90
	35-59			9.70	8.70	4.90	3.90	7.80	6.80
	67-75			10.50	9.50	5.50	4.50	8.50	7.50
	83			10.60	9.60	5.60	4.60	8.60	7.60
	91			10.70	9.70	5.60	4.60	8.60	7.60
	99-107			9.70	8.70	4.50	3.50	7.50	6.50
	115			8.50	7.50	3.50	2.50	6.40	5.40
	123-179			8.40	7.40	3.30	2.30	6.20	5.20
	187			7.90	6.90	3.10	2.10	6.00	5.00
	195-219			7.90	6.90	4.00	3.00	6.70	5.70
	227			8.00	7.00	4.00	3.00	6.70	5.70
	7			12.20	11.20	7.20	6.20	10.20	9.20
	23			12.80	11.80	7.80	6.80	10.80	9.80
	39-55			12.80	11.80	8.00	7.00	10.90	9.90
	71			13.60	12.60	8.60	7.60	11.60	10.60
	87			13.50	12.50	8.50	7.50	11.50	10.50
6 GHz WiFi (80MHz BW) LP	103			12.60	11.60	7.40	6.40	10.40	9.40
	119			11.40	10.40	6.40	5.40	9.30	8.30
	135-167			11.50	10.50	6.50	5.50	9.40	8.40
	183			11.00	10.00	6.10	5.10	9.00	8.00
	199			11.00	10.00	7.10	6.10	9.80	8.80
	215			10.90	9.90	7.00	6.00	9.70	8.70
	15			13.50	12.50	9.90	8.90	12.90	11.90
	47			13.50	12.50	10.90	9.90	13.50	12.50
	79			14.25	13.25	11.30	10.30	14.25	13.25
	111			14.00	13.00	9.20	8.20	12.10	11.10
	143			13.25	12.25	8.90	7.90	11.80	10.80
	175			13.25	12.25	8.80	7.80	11.70	10.70
	207			13.70	12.70	9.80	8.80	12.50	11.50
Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.80	1.80	3.00	2.00	-1.90	-2.90	1.00	0.00
	65-85	3.50	2.50	3.60	2.60	-1.50	-2.50	1.50	0.50
	89	3.60	2.60	3.70	2.70	-1.30	-2.30	1.70	0.70
	93	3.60	2.60	3.70	2.70	-1.30	-2.30	1.70	0.70
	97-113	2.60	1.60	2.60	1.60	-2.60	-3.60	0.40	-0.60
	117-181	1.40	0.40	0.40	-3.60	-4.60	-0.70	-1.70	-2.70
	185	1.00	0.00	1.20	0.20	-3.80	-4.80	-0.90	-1.90
	189-225	0.80	-0.20	1.00	0.00	-2.90	-3.90	-0.20	-1.20
	229	0.80	-0.20	1.10	0.10	-2.80	-3.80	-0.10	-1.10
	233	0.10	-0.90	0.30	-0.70	-3.90	-4.90	-1.20	-2.20
	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	19-27			NS	NS	NS	NS	NS	NS
	35-59			5.70	4.70	0.90	-0.10	3.80	2.80
	67-75			6.50	5.50	1.50	0.50	4.50	3.50
	83			6.60	5.60	1.60	0.60	4.60	3.60
	91			6.70	5.70	1.60	0.60	4.60	3.60
	99-107			5.70	4.70	0.50	-0.50	3.50	2.50
	115			4.50	3.50	-0.50	-1.50	2.40	1.40
	123-179			4.40	3.40	-0.70	-1.70	2.20	1.20
	187			3.90	2.90	-0.90	-1.90	2.00	1.00
	195-219			3.90	2.90	0.00	-1.00	2.70	1.70
	227			4.00	3.00	0.00	-1.00	2.70	1.70
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			8.80	7.80	4.00	3.00	6.90	5.90
	71			9.60	8.60	4.60	3.60	7.60	6.60
	87			9.50	8.50	4.50	3.50	7.50	6.50
6 GHz WiFi (80MHz BW) VLP	103			8.60	7.60	3.40	2.40	6.40	5.40
	119			7.40	6.40	2.40	1.40	5.30	4.30
	135-167			7.50	6.50	2.50	1.50	5.40	4.40
	183			7.00	6.00	2.10	1.10	5.00	4.00
	199			7.00	6.00	3.10	2.10	5.80	4.80
	215			6.90	5.90	3.00	2.00	5.70	4.70
	15			NS	NS	NS	NS	NS	NS
	47			10.60	9.60	6.90	5.90	8.70	7.70
	79			11.30	10.30	7.30	6.30	9.30	8.30
	111			9.20	8.20	5.20	4.20	7.10	6.10
	143			9.20	8.20	4.90	3.90	7.10	6.10
	175			8.70	7.70	4.80	3.80	6.80	5.80
	207			8.70	7.70	5.70	4.70	7.50	6.50

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50
	5	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50
	9-29	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50
	33-61	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50
	65-85	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	89	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	93	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			13.50	12.50	13.50	12.50	13.50	12.50
	11			13.50	12.50	13.50	12.50	13.50	12.50
	19-27			13.50	12.50	13.50	12.50	13.50	12.50
	35-59			13.50	12.50	13.50	12.50	13.50	12.50
	67-75			14.25	13.25	14.25	13.25	14.25	13.25
	83			14.25	13.25	14.25	13.25	14.25	13.25
	91			14.25	13.25	14.25	13.25	14.25	13.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			13.25	12.25	13.25	12.25	13.25	12.25
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			13.50	12.50	13.50	12.50	13.50	12.50
6 GHz WiFi (80MHz BW) SP	23			13.50	12.50	13.50	12.50	13.50	12.50
	39-55			13.50	12.50	13.50	12.50	13.50	12.50
	71			14.25	13.25	14.25	13.25	14.25	13.25
	87			14.25	13.25	14.25	13.25	14.25	13.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.25	12.25	13.25	12.25	13.25	12.25
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			13.50	12.50	13.50	12.50	13.50	12.50
	47			13.50	12.50	13.50	12.50	13.50	12.50
	79			14.25	13.25	14.25	13.25	14.25	13.25
	111			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	143			13.25	12.25	13.25	12.25	13.25	12.25
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	8.40	7.40	8.40	7.40	1.20	0.20	4.20	3.20
	5	9.10	8.10	9.20	8.20	2.00	1.00	5.00	4.00
	9-29	9.00	8.00	9.10	8.10	1.90	0.90	4.90	3.90
	33-61	9.40	8.40	9.60	8.60	2.10	1.10	5.00	4.00
	65-85	9.70	8.70	9.70	8.70	2.50	1.50	5.50	4.50
	89	9.90	8.90	10.00	9.00	2.70	1.70	5.70	4.70
	93	9.80	8.80	9.90	8.90	2.70	1.70	5.70	4.70
	97-113	8.30	7.30	8.40	7.40	1.40	0.40	4.40	3.40
	117-181	7.40	6.40	7.50	6.50	0.40	-0.60	3.30	2.30
	185	7.70	6.70	7.60	6.60	0.20	-0.80	3.10	2.10
	189-225	9.80	8.80	10.10	9.10	1.10	0.10	3.80	2.80
	229	10.00	9.00	10.30	9.30	1.20	0.20	3.90	2.90
	233	9.30	8.30	9.10	8.10	0.10	-0.90	2.80	1.80
	3			11.00	10.00	4.10	3.10	7.10	6.10
	11			11.00	10.00	4.80	3.80	7.80	6.80
	19-27			11.00	10.00	4.90	3.90	7.90	6.90
6 GHz WiFi (40MHz BW) LP	35-59			11.00	10.00	4.90	3.90	7.80	6.80
	67-75			12.70	11.70	5.50	4.50	8.50	7.50
	83			12.80	11.80	5.60	4.60	8.60	7.60
	91			12.80	11.80	5.60	4.60	8.60	7.60
	99-107			11.40	10.40	4.50	3.50	7.50	6.50
	115			10.60	9.60	3.50	2.50	6.40	5.40
	123-179			10.40	9.40	3.30	2.30	6.20	5.20
	187			10.60	9.60	3.10	2.10	6.00	5.00
	195-219			13.00	12.00	4.00	3.00	6.70	5.70
	227			13.00	12.00	4.00	3.00	6.70	5.70
	7			11.00	10.00	7.20	6.20	10.20	9.20
6 GHz WiFi (80MHz BW) LP	23			11.00	10.00	7.80	6.80	10.80	9.80
	39-55			11.00	10.00	8.00	7.00	10.90	9.90
	71			14.25	13.25	8.60	7.60	11.60	10.60
	87			14.25	13.25	8.50	7.50	11.50	10.50
	103			13.00	12.00	7.40	6.40	10.40	9.40
	119			13.50	12.50	6.40	5.40	9.30	8.30
	135-167			13.60	12.60	6.50	5.50	9.40	8.40
	183			13.50	12.50	6.10	5.10	9.00	8.00
	199			15.25	14.25	7.10	6.10	9.80	8.80
	215			15.25	14.25	7.00	6.00	9.70	8.70
	207			15.25	14.25	9.80	8.80	12.50	11.50
6 GHz WiFi (160MHz BW) LP	47			11.00	10.00	10.90	9.90	11.00	10.00
	79			14.25	13.25	11.30	10.30	14.25	13.25
	111			13.00	12.00	9.20	8.20	12.10	11.10
	143			15.00	14.00	8.90	7.90	11.80	10.80
	175			15.00	14.00	8.80	7.80	11.70	10.70
	207			15.25	14.25	9.80	8.80	12.50	11.50
Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	5.40	4.40	5.60	4.60	-1.90	-2.90	1.00	0.00
	65-85	5.70	4.70	5.70	4.70	-1.50	-2.50	1.50	0.50
	89	5.90	4.90	6.00	5.00	-1.30	-2.30	1.70	0.70
	93	5.80	4.80	5.90	4.90	-1.30	-2.30	1.70	0.70
	97-113	4.30	3.30	4.40	3.40	-2.60	-3.60	0.40	-0.60
	117-181	3.40	2.40	3.50	2.50	-3.60	-4.60	-0.70	-1.70
	185	3.70	2.70	3.60	2.60	-3.80	-4.80	-0.90	-1.90
	189-225	5.80	4.80	6.10	5.10	-2.90	-3.90	-0.20	-1.20
	229	6.00	5.00	6.30	5.30	-2.80	-3.80	-0.10	-1.10
	233	5.30	4.30	5.10	4.10	-3.90	-4.90	-1.20	-2.20
	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	35-59			8.50	7.50	0.90	-0.10	3.80	2.80
	67-75			8.70	7.70	1.50	0.50	4.50	3.50
	83			8.80	7.80	1.60	0.60	4.60	3.60
	91			8.80	7.80	1.60	0.60	4.60	3.60
	99-107			7.40	6.40	0.50	-0.50	3.50	2.50
	115			6.60	5.60	-0.50	-1.50	2.40	1.40
	123-179			6.40	5.40	-0.70	-1.70	2.20	1.20
	187			6.60	5.60	-0.90	-1.90	2.00	1.00
	195-219			9.00	8.00	0.00	-1.00	2.70	1.70
	227			9.00	8.00	0.00	-1.00	2.70	1.70
	7			NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) VLP	23			NS	NS	NS	NS	NS	NS
	39-55			11.00	10.00	4.00	3.00	6.90	5.90
	71			11.80	10.80	4.60	3.60	7.60	6.60
	87			11.80	10.80	4.50	3.50	7.50	6.50
	103			10.40	9.40	3.40	2.40	6.40	5.40
	119			9.50	8.50	2.40	1.40	5.30	4.30
	135-167			9.60	8.60	2.50	1.50	5.40	4.40
	183			9.50	8.50	2.10	1.10	5.00	4.00
	199			12.10	11.10	3.10	2.10	5.80	4.80
	215			12.00	11.00	3.00	2.00	5.70	4.70
	207			13.80	12.80	5.70	4.70	7.50	6.50
6 GHz WiFi (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			11.00	10.00	6.90	5.90	8.70	7.70
	79			13.50	12.50	7.30	6.30	9.30	8.30
	111			11.30	10.30	5.20	4.20	7.10	6.10
	143			11.30	10.30	4.90	3.90	7.10	6.10
	175			11.30	10.30	4.80	3.80	6.80	5.80
	207			13.80	12.80	5.70	4.70	7.50	6.50

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	5	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	9-29	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	33-61	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	65-85	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	89	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	93	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			11.00	10.00	11.00	10.00	11.00	10.00
	11			11.00	10.00	11.00	10.00	11.00	10.00
	19-27			11.00	10.00	11.00	10.00	11.00	10.00
	35-59			11.00	10.00	11.00	10.00	11.00	10.00
	67-75			14.25	13.25	14.25	13.25	14.25	13.25
	83			14.25	13.25	14.25	13.25	14.25	13.25
	91			14.25	13.25	14.25	13.25	14.25	13.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			15.00	14.00	15.00	14.00	15.00	14.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			11.00	10.00	11.00	10.00	11.00	10.00
6 GHz WiFi (80MHz BW) SP	23			11.00	10.00	11.00	10.00	11.00	10.00
	39-55			11.00	10.00	11.00	10.00	11.00	10.00
	71			14.25	13.25	14.25	13.25	14.25	13.25
	87			14.25	13.25	14.25	13.25	14.25	13.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			15.00	14.00	15.00	14.00	15.00	14.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			11.00	10.00	11.00	10.00	11.00	10.00
	47			11.00	10.00	11.00	10.00	11.00	10.00
	79			14.25	13.25	14.25	13.25	14.25	13.25
	111			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	143			15.00	14.00	15.00	14.00	15.00	14.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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

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IEEE 802.11 (Maximum in dBm) - Antenna WFSB									
Mode	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	6.10	5.10	6.30	5.30	1.20	0.20	4.20	3.20
	5	7.00	6.00	7.10	6.10	2.00	1.00	5.00	4.00
	9-29	6.90	5.90	6.90	5.90	1.90	0.90	4.90	3.90
	33-61	6.80	5.80	7.00	6.00	2.10	1.10	5.00	4.00
	65-85	7.50	6.50	7.60	6.60	2.50	1.50	5.50	4.50
	89	7.60	6.60	7.70	6.70	2.70	1.70	5.70	4.70
	93	7.60	6.60	7.70	6.70	2.70	1.70	5.70	4.70
	97-113	6.60	5.60	6.60	5.60	1.40	0.40	4.40	3.40
	117-181	5.40	4.40	5.40	4.40	0.40	-0.60	3.30	2.30
	185	5.00	4.00	5.20	4.20	0.20	-0.80	3.10	2.10
	189-225	4.80	3.80	5.00	4.00	1.10	0.10	3.80	2.80
	229	4.80	3.80	5.10	4.10	1.20	0.20	3.90	2.90
	233	4.10	3.10	4.30	3.30	0.10	-0.90	2.80	1.80
	3			9.10	8.10	4.10	3.10	7.10	6.10
6 GHz WiFi (40MHz BW) LP	11			9.80	8.80	4.80	3.80	7.80	6.80
	19-27			9.90	8.90	4.90	3.90	7.90	6.90
	35-59			9.70	8.70	4.90	3.90	7.80	6.80
	67-75			10.50	9.50	5.50	4.50	8.50	7.50
	83			10.60	9.60	5.60	4.60	8.60	7.60
	91			10.70	9.70	5.60	4.60	8.60	7.60
	99-107			9.70	8.70	4.50	3.50	7.50	6.50
	115			8.50	7.50	3.50	2.50	6.40	5.40
	123-179			8.40	7.40	3.30	2.30	6.20	5.20
	187			7.90	6.90	3.10	2.10	6.00	5.00
	195-219			7.90	6.90	4.00	3.00	6.70	5.70
	227			8.00	7.00	4.00	3.00	6.70	5.70
	7			12.20	11.20	7.20	6.20	10.20	9.20
	23			12.80	11.80	7.80	6.80	10.80	9.80
	39-55			12.80	11.80	8.00	7.00	10.90	9.90
6 GHz WiFi (80MHz BW) LP	71			13.60	12.60	8.60	7.60	11.60	10.60
	87			13.50	12.50	8.50	7.50	11.50	10.50
	103			12.60	11.60	7.40	6.40	10.40	9.40
	119			11.40	10.40	6.40	5.40	9.30	8.30
	135-167			11.50	10.50	6.50	5.50	9.40	8.40
	183			11.00	10.00	6.10	5.10	9.00	8.00
	199			11.00	10.00	7.10	6.10	9.80	8.80
	215			10.90	9.90	7.00	6.00	9.70	8.70
	15			14.75	13.75	9.90	8.90	12.90	11.90
	47			14.75	13.75	10.90	9.90	13.80	12.80
	79			14.75	13.75	11.30	10.30	14.30	13.30
	111			13.50	12.50	9.20	8.20	12.10	11.10
	143			13.90	12.90	8.90	7.90	11.80	10.80
	175			13.70	12.70	8.80	7.80	11.70	10.70
	207			13.25	12.25	9.80	8.80	12.50	11.50
IEEE 802.11 (Maximum in dBm) - Antenna WFSB									
Mode	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.80	1.80	3.00	2.00	-1.90	-2.90	1.00	0.00
	65-85	3.50	2.50	3.60	2.60	-1.50	-2.50	1.50	0.50
	89	3.60	2.60	3.70	2.70	-1.30	-2.30	1.70	0.70
	93	3.60	2.60	3.70	2.70	-1.30	-2.30	1.70	0.70
	97-113	2.60	1.60	2.60	1.60	-2.60	-3.60	0.40	-0.60
	117-181	1.40	0.40	1.40	0.40	-3.60	-4.60	-0.70	-1.70
	185	1.00	0.00	1.20	0.20	-3.80	-4.80	-0.90	-1.90
	189-225	0.80	-0.20	1.00	0.00	-2.90	-3.90	-0.20	-1.20
	229	0.80	-0.20	1.10	0.10	-2.80	-3.80	-0.10	-1.10
	233	0.10	-0.90	0.30	-0.70	-3.90	-4.90	-1.20	-2.20
	3			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			5.70	4.70	0.90	-0.10	3.80	2.80
	67-75			6.50	5.50	1.50	0.50	4.50	3.50
	83			6.60	5.60	1.60	0.60	4.60	3.60
	91			6.70	5.70	1.60	0.60	4.60	3.60
	99-107			5.70	4.70	0.50	-0.50	3.50	2.50
	115			4.50	3.50	-0.50	-1.50	2.40	1.40
	123-179			4.40	3.40	-0.70	-1.70	2.20	1.20
	187			3.90	2.90	-0.90	-1.90	2.00	1.00
	195-219			3.90	2.90	0.00	-1.00	2.70	1.70
	227			4.00	3.00	0.00	-1.00	2.70	1.70
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			8.80	7.80	4.00	3.00	6.90	5.90
6 GHz WiFi (80MHz BW) VLP	71			9.60	8.60	4.60	3.60	7.60	6.60
	87			9.50	8.50	4.50	3.50	7.50	6.50
	103			8.60	7.60	3.40	2.40	6.40	5.40
	119			7.40	6.40	2.40	1.40	5.30	4.30
	135-167			7.50	6.50	2.50	1.50	5.40	4.40
	183			7.00	6.00	2.10	1.10	5.00	4.00
	199			7.00	6.00	3.10	2.10	5.80	4.80
	215			6.90	5.90	3.00	2.00	5.70	4.70
	15			NS	NS	NS	NS	NS	NS
	47			10.60	9.60	6.90	5.90	8.70	7.70
	79			11.30	10.30	7.30	6.30	9.30	8.30
	111			9.20	8.20	5.20	4.20	7.10	6.10
	143			9.20	8.20	4.90	3.90	7.10	6.10
	175			8.70	7.70	4.80	3.80	6.80	5.80
	207			8.70	7.70	5.70	4.70	7.50	6.50

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	5	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	9-29	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	33-61	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	65-85	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	89	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	93	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
	237	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			14.75	13.75	14.75	13.75	14.75	13.75
	11			14.75	13.75	14.75	13.75	14.75	13.75
	19-27			14.75	13.75	14.75	13.75	14.75	13.75
	35-59			14.75	13.75	14.75	13.75	14.75	13.75
	67-75			14.75	13.75	14.75	13.75	14.75	13.75
	83			14.75	13.75	14.75	13.75	14.75	13.75
	91			14.75	13.75	14.75	13.75	14.75	13.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			14.00	13.00	14.00	13.00	14.00	13.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	231			14.75	13.75	14.75	13.75	14.75	13.75
	235			14.75	13.75	14.75	13.75	14.75	13.75
6 GHz WiFi (80MHz BW) SP	7			14.75	13.75	14.75	13.75	14.75	13.75
	23			14.75	13.75	14.75	13.75	14.75	13.75
	39-55			14.75	13.75	14.75	13.75	14.75	13.75
	71			14.75	13.75	14.75	13.75	14.75	13.75
	87			14.75	13.75	14.75	13.75	14.75	13.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			14.00	13.00	14.00	13.00	14.00	13.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	239			14.75	13.75	14.75	13.75	14.75	13.75
	243			14.75	13.75	14.75	13.75	14.75	13.75
	247			NS	NS	NS	NS	NS	NS
	251			14.00	13.00	14.00	13.00	14.00	13.00
6 GHz WiFi (160MHz BW) SP	15			14.75	13.75	14.75	13.75	14.75	13.75
	47			14.75	13.75	14.75	13.75	14.75	13.75
	79			14.75	13.75	14.75	13.75	14.75	13.75
	111			NS	NS	NS	NS	NS	NS
	143			14.00	13.00	14.00	13.00	14.00	13.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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

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1.3.3

Bluetooth Maximum Output Power

Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
BDR	Maximum	18.00	7.50	17.00	7.50
	Nominal	17.00	6.50	16.00	6.50
EDR	Maximum	16.50	4.50	13.50	4.50
	Nominal	15.50	3.50	12.50	3.50
LE Adv	Maximum	18.00	7.50	18.00	7.50
	Nominal	17.00	6.50	17.00	6.50
LE1M	Maximum	18.00	7.50	18.00	7.50
	Nominal	17.00	6.50	17.00	6.50
LE2M	Maximum	18.00	7.50	18.00	7.50
	Nominal	17.00	6.50	17.00	6.50
HDR4	Maximum	13.00	4.50	13.00	4.50
	Nominal	12.00	3.50	12.00	3.50
HDR8	Maximum	13.00	4.50	13.00	4.50
	Nominal	12.00	3.50	12.00	3.50
XHDR HDRPS 2	Maximum	13.00	4.50	13.00	4.50
	Nominal	12.00	3.50	12.00	3.50
XHDRP HDRPM 4/6/8	Maximum	13.00	4.50	13.00	4.50
	Nominal	12.00	3.50	12.00	3.50
XHDRPM HDRPM 12/16	Maximum	11.00	1.50	11.00	1.50
	Nominal	10.00	0.50	10.00	0.50
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	13.00	4.50	13.00	4.50
	Nominal	12.00	3.50	12.00	3.50
HDT4	Maximum	13.00	4.50	13.00	4.50
	Nominal	12.00	3.50	12.00	3.50
HDT 6/8	Maximum	11.00	1.50	11.00	1.50
	Nominal	10.00	0.50	10.00	0.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.75	7.50	9.75	7.50
	Nominal	11.75	6.50	8.75	6.50

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

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Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
BDR	Maximum	17.50	8.50	17.00	8.50
	Nominal	16.50	7.50	16.00	7.50
EDR	Maximum	16.00	5.50	13.50	5.50
	Nominal	15.00	4.50	12.50	4.50
LE Adv	Maximum	17.50	8.50	17.50	8.50
	Nominal	16.50	7.50	16.50	7.50
LE1M	Maximum	17.50	8.50	17.50	8.50
	Nominal	16.50	7.50	16.50	7.50
LE2M	Maximum	17.50	8.50	17.50	8.50
	Nominal	16.50	7.50	16.50	7.50
HDR4	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
HDR8	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
XHDR HDRPS 2	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
XHDRP HDRPM 4/6/8	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
XHDRPM HDRPM 12/16	Maximum	10.50	2.50	10.50	2.50
	Nominal	9.50	1.50	9.50	1.50
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
HDT4	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
HDT 6/8	Maximum	10.50	2.50	10.50	2.50
	Nominal	9.50	1.50	9.50	1.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.75	8.50	9.75	8.50
	Nominal	11.75	7.50	8.75	7.50

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

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1.3.4

802.15.4 Maximum Output Power

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	19.50	7.50
	Nominal	18.50	6.50

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	19.50	8.50
	Nominal	18.50	7.50

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1.3.5

NB UNII Maximum Output Power

NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
BDR	Maximum	10.00	1.00	7.00	1.00
	Nominal	9.00	0.00	6.00	0.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	1.00	7.25	1.00
	Nominal	9.25	0.00	6.25	0.00
LE1M	Maximum	10.25	1.00	7.25	1.00
	Nominal	9.25	0.00	6.25	0.00
LE2M	Maximum	11.00	1.00	8.00	1.00
	Nominal	10.00	0.00	7.00	0.00
HDR4	Maximum	12.25	-2.00	9.25	-2.00
	Nominal	11.25	-3.00	8.25	-3.00
HDR8	Maximum	12.50	-2.00	11.50	-2.00
	Nominal	11.50	-3.00	10.50	-3.00
XHDR HDRPS 2	Maximum	12.25	-2.00	9.25	-2.00
	Nominal	11.25	-3.00	8.25	-3.00
XHDRP HDRPM 4/6/8	Maximum	12.50	-2.00	12.00	-2.00
	Nominal	11.50	-3.00	11.00	-3.00
XHDRPM HDRPM 12/16	Maximum	10.50	-5.00	10.50	-5.00
	Nominal	9.50	-6.00	9.50	-6.00
XHDRPL HDRPL 8/12/16	Maximum	12.50	-2.00	12.50	-2.00
	Nominal	11.50	-3.00	11.50	-3.00
HDRPL 24/32	Maximum	10.50	-5.00	10.50	-5.00
	Nominal	9.50	-6.00	9.50	-6.00
HDT 2/3	Maximum	12.50	-2.00	9.50	-2.00
	Nominal	11.50	-3.00	8.50	-3.00
HDT4	Maximum	12.50	-2.00	9.50	-2.00
	Nominal	11.50	-3.00	8.50	-3.00
HDT 6/8	Maximum	10.50	-5.00	9.25	-5.00
	Nominal	9.50	-6.00	8.25	-6.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
BDR	Maximum	10.00	4.00	7.00	4.00
	Nominal	9.00	3.00	6.00	3.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	4.00	7.25	4.00
	Nominal	9.25	3.00	6.25	3.00
LE1M	Maximum	10.25	4.00	7.25	4.00
	Nominal	9.25	3.00	6.25	3.00
LE2M	Maximum	11.00	4.00	8.00	4.00
	Nominal	10.00	3.00	7.00	3.00
HDR4	Maximum	12.25	1.00	9.25	1.00
	Nominal	11.25	0.00	8.25	0.00
HDR8	Maximum	13.50	1.00	11.50	1.00
	Nominal	12.50	0.00	10.50	0.00
XHDR HDRPS 2	Maximum	12.25	1.00	9.25	1.00
	Nominal	11.25	0.00	8.25	0.00
XHDRP HDRPM 4/6/8	Maximum	13.50	1.00	12.00	1.00
	Nominal	12.50	0.00	11.00	0.00
XHDRPM HDRPM 12/16	Maximum	11.50	-2.00	11.50	-2.00
	Nominal	10.50	-3.00	10.50	-3.00
XHDRPL HDRPL 8/12/16	Maximum	13.50	1.00	13.50	1.00
	Nominal	12.50	0.00	12.50	0.00
HDRPL 24/32	Maximum	11.50	-2.00	11.50	-2.00
	Nominal	10.50	-3.00	10.50	-3.00
HDT 2/3	Maximum	12.50	1.00	9.50	1.00
	Nominal	11.50	0.00	8.50	0.00
HDT4	Maximum	12.50	1.00	9.50	1.00
	Nominal	11.50	0.00	8.50	0.00
HDT 6/8	Maximum	11.00	-2.00	9.25	-2.00
	Nominal	10.00	-3.00	8.25	-3.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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BDR	Maximum	10.00	1.00	7.00	1.00
	Nominal	9.00	0.00	6.00	0.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	1.00	7.25	1.00
	Nominal	9.25	0.00	6.25	0.00
LE1M	Maximum	10.25	1.00	7.25	1.00
	Nominal	9.25	0.00	6.25	0.00
LE2M	Maximum	11.00	1.00	8.00	1.00
	Nominal	10.00	0.00	7.00	0.00
HDR4	Maximum	12.25	-2.00	9.25	-2.00
	Nominal	11.25	-3.00	8.25	-3.00
HDR8	Maximum	12.50	-2.00	11.50	-2.00
	Nominal	11.50	-3.00	10.50	-3.00
XHDP HDRPS 2	Maximum	12.25	-2.00	9.25	-2.00
	Nominal	11.25	-3.00	8.25	-3.00
XHDP HDRPM 4/6/8	Maximum	12.50	-2.00	12.00	-2.00
	Nominal	11.50	-3.00	11.00	-3.00
XHDP HDRPM 12/16	Maximum	10.50	-5.00	10.50	-5.00
	Nominal	9.50	-6.00	9.50	-6.00
XHDP HDRPL 8/12/16	Maximum	12.50	-2.00	12.50	-2.00
	Nominal	11.50	-3.00	11.50	-3.00
HDRPL 24/32	Maximum	10.50	-5.00	10.50	-5.00
	Nominal	9.50	-6.00	9.50	-6.00
HDT 2/3	Maximum	12.50	-2.00	9.50	-2.00
	Nominal	11.50	-3.00	8.50	-3.00
HDT4	Maximum	12.50	-2.00	9.50	-2.00
	Nominal	11.50	-3.00	8.50	-3.00
HDT 6/8	Maximum	10.50	-5.00	9.25	-5.00
	Nominal	9.50	-6.00	8.25	-6.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
BDR	Maximum	18.00	2.00	18.50	2.00
	Nominal	17.00	1.00	17.50	1.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	18.00	2.00	18.50	2.00
	Nominal	17.00	1.00	17.50	1.00
LE1M	Maximum	18.00	2.00	18.50	2.00
	Nominal	17.00	1.00	17.50	1.00
LE2M	Maximum	18.00	2.00	18.50	2.00
	Nominal	17.00	1.00	17.50	1.00
HDR4	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDR8	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
XHDR HDRPS 2	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
XHDRP HDRPM 4/6/8	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
XHDRPM HDRPM 12/16	Maximum	11.50	-4.00	11.50	-4.00
	Nominal	10.50	-5.00	10.50	-5.00
XHDRPL HDRPL 8/12/16	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDRPL 24/32	Maximum	11.50	-4.00	11.50	-4.00
	Nominal	10.50	-5.00	10.50	-5.00
HDT 2/3	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDT4	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDT 6/8	Maximum	11.50	-4.00	11.50	-4.00
	Nominal	10.50	-5.00	10.50	-5.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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BDR	Maximum	16.50	4.50	18.50	4.50
	Nominal	15.50	3.50	17.50	3.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	16.50	4.50	18.50	4.50
	Nominal	15.50	3.50	17.50	3.50
LE1M	Maximum	16.50	4.50	18.50	4.50
	Nominal	15.50	3.50	17.50	3.50
LE2M	Maximum	16.50	4.50	18.50	4.50
	Nominal	15.50	3.50	17.50	3.50
HDR4	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
HDR8	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
XHDR HDRPS 2	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
XHDRP HDRPM 4/6/8	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
XHDRPM HDRPM 12/16	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50
XHDRPL HDRPL 8/12/16	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
HDRPL 24/32	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50
HDT 2/3	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
HDT4	Maximum	14.00	1.50	14.00	1.50
	Nominal	13.00	0.50	13.00	0.50
HDT 6/8	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	18.50	2.00	18.50	2.00
	Nominal	17.50	1.00	17.50	1.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	18.50	2.00	18.50	2.00
	Nominal	17.50	1.00	17.50	1.00
LE1M	Maximum	18.50	2.00	18.50	2.00
	Nominal	17.50	1.00	17.50	1.00
LE2M	Maximum	18.50	2.00	18.50	2.00
	Nominal	17.50	1.00	17.50	1.00
HDR4	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDR8	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
XHDP HDRPS 2	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
XHDP HDRPM 4/6/8	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
XHDP HDRPM 12/16	Maximum	11.50	-4.00	11.50	-4.00
	Nominal	10.50	-5.00	10.50	-5.00
XHDP HDRPL 8/12/16	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDRPL 24/32	Maximum	11.50	-4.00	11.50	-4.00
	Nominal	10.50	-5.00	10.50	-5.00
HDT 2/3	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDT4	Maximum	13.50	-1.00	13.50	-1.00
	Nominal	12.50	-2.00	12.50	-2.00
HDT 6/8	Maximum	11.50	-4.00	11.50	-4.00
	Nominal	10.50	-5.00	10.50	-5.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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BDR	Maximum	-7.75	-7.75	-14.25	-14.25
	Nominal	-8.75	-8.75	-15.25	-15.25
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.50	-7.50	-14.00	-14.00
	Nominal	-8.50	-8.50	-15.00	-15.00
LE1M	Maximum	-7.50	-7.50	-14.00	-14.00
	Nominal	-8.50	-8.50	-15.00	-15.00
LE2M	Maximum	-6.50	-6.50	-13.00	-13.00
	Nominal	-7.50	-7.50	-14.00	-14.00
HDR4	Maximum	-5.50	-5.50	-12.00	-12.00
	Nominal	-6.50	-6.50	-13.00	-13.00
HDR8	Maximum	-3.75	-3.75	-10.00	-10.00
	Nominal	-4.75	-4.75	-11.00	-11.00
XHDR HDRPS 2	Maximum	-5.50	-5.50	-12.00	-12.00
	Nominal	-6.50	-6.50	-13.00	-13.00
XHDRP HDRPM 4/6/8	Maximum	-2.75	-2.75	-9.00	-9.00
	Nominal	-3.75	-3.75	-10.00	-10.00
XHDRPM HDRPM 12/16	Maximum	-2.50	-4.00	-9.00	-9.00
	Nominal	-3.50	-5.00	-10.00	-10.00
XHDRPL HDRPL 8/12/16	Maximum	0.50	-1.00	-6.00	-6.00
	Nominal	-0.50	-2.00	-7.00	-7.00
HDRPL 24/32	Maximum	0.00	-4.00	-6.25	-6.25
	Nominal	-1.00	-5.00	-7.25	-7.25
HDT 2/3	Maximum	-5.00	-5.00	-11.50	-11.50
	Nominal	-6.00	-6.00	-12.50	-12.50
HDT4	Maximum	-5.00	-5.00	-11.50	-11.50
	Nominal	-6.00	-6.00	-12.50	-12.50
HDT 6/8	Maximum	-5.50	-5.50	-11.75	-11.75
	Nominal	-6.50	-6.50	-12.75	-12.75
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
BDR	Maximum	-6.25	-6.25	-13.50	-13.50
	Nominal	-7.25	-7.25	-14.50	-14.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-6.00	-6.00	-13.25	-13.25
	Nominal	-7.00	-7.00	-14.25	-14.25
LE1M	Maximum	-6.00	-6.00	-13.25	-13.25
	Nominal	-7.00	-7.00	-14.25	-14.25
LE2M	Maximum	-5.00	-5.00	-12.25	-12.25
	Nominal	-6.00	-6.00	-13.25	-13.25
HDR4	Maximum	-4.00	-4.00	-11.25	-11.25
	Nominal	-5.00	-5.00	-12.25	-12.25
HDR8	Maximum	-2.00	-2.00	-9.50	-9.50
	Nominal	-3.00	-3.00	-10.50	-10.50
XHDR HDRPS 2	Maximum	-4.00	-4.00	-11.25	-11.25
	Nominal	-5.00	-5.00	-12.25	-12.25
XHDRP HDRPM 4/6/8	Maximum	-1.00	-1.00	-8.50	-8.50
	Nominal	-2.00	-2.00	-9.50	-9.50
XHDRPM HDRPM 12/16	Maximum	-1.00	-1.50	-8.25	-8.25
	Nominal	-2.00	-2.50	-9.25	-9.25
XHDRPL HDRPL 8/12/16	Maximum	2.00	1.50	-5.25	-5.25
	Nominal	1.00	0.50	-6.25	-6.25
HDRPL 24/32	Maximum	1.75	-1.50	-5.50	-5.50
	Nominal	0.75	-2.50	-6.50	-6.50
HDT 2/3	Maximum	-3.50	-3.50	-10.75	-10.75
	Nominal	-4.50	-4.50	-11.75	-11.75
HDT4	Maximum	-3.50	-3.50	-10.75	-10.75
	Nominal	-4.50	-4.50	-11.75	-11.75
HDT 6/8	Maximum	-4.00	-4.00	-11.00	-11.00
	Nominal	-5.00	-5.00	-12.00	-12.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	-8.50	-8.50	-14.25	-14.25
	Nominal	-9.50	-9.50	-15.25	-15.25
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-8.25	-8.25	-14.00	-14.00
	Nominal	-9.25	-9.25	-15.00	-15.00
LE1M	Maximum	-8.25	-8.25	-14.00	-14.00
	Nominal	-9.25	-9.25	-15.00	-15.00
LE2M	Maximum	-7.50	-7.50	-13.00	-13.00
	Nominal	-8.50	-8.50	-14.00	-14.00
HDR4	Maximum	-6.25	-6.25	-12.00	-12.00
	Nominal	-7.25	-7.25	-13.00	-13.00
HDR8	Maximum	-4.50	-4.50	-10.00	-10.00
	Nominal	-5.50	-5.50	-11.00	-11.00
XHDP HDRPS 2	Maximum	-6.25	-6.25	-12.00	-12.00
	Nominal	-7.25	-7.25	-13.00	-13.00
XHDP HDRPM 4/6/8	Maximum	-3.50	-3.50	-9.00	-9.00
	Nominal	-4.50	-4.50	-10.00	-10.00
XHDP HDRPM 12/16	Maximum	-3.25	-4.00	-9.00	-9.00
	Nominal	-4.25	-5.00	-10.00	-10.00
XHDP HDRPL 8/12/16	Maximum	-0.25	-1.00	-6.00	-6.00
	Nominal	-1.25	-2.00	-7.00	-7.00
HDRPL 24/32	Maximum	-0.50	-4.00	-6.25	-6.25
	Nominal	-1.50	-5.00	-7.25	-7.25
HDT 2/3	Maximum	-6.00	-6.00	-11.50	-11.50
	Nominal	-7.00	-7.00	-12.50	-12.50
HDT4	Maximum	-5.75	-5.75	-11.50	-11.50
	Nominal	-6.75	-6.75	-12.50	-12.50
HDT 6/8	Maximum	-6.25	-6.25	-11.75	-11.75
	Nominal	-7.25	-7.25	-12.75	-12.75
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Note: Per FCC KDB Publication 616217 D04v01r01, front side of the device is not required to be evaluated for SAR. All other edges were evaluated for simultaneous transmission analysis.

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1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, 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 D04v01 4.3.2 procedures.

Table 1-10
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	Cellular + 2.4 GHz Wi-Fi MIMO + WPT	Yes
2	Cellular + 5/6 GHz Wi-Fi MIMO + WPT	Yes
3	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
4	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
5	Cellular + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
6	Cellular + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	Cellular + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
8	Cellular + NB U-NII (TXBF) + WPT	Yes
9	Cellular + 2.4 GHz Bluetooth + NB U-NII + WPT	Yes
10	Cellular + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT	Yes
11	Cellular + 2.4 GHz Bluetooth (TXBF) + NB U-NII + WPT	Yes
12	Cellular + 2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF) + WPT	Yes
13	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
14	Cellular + 2.4 GHz Wi-Fi + NB U-NII + WPT	Yes
15	Cellular + 2.4 GHz Wi-Fi + NB U-NII (TXBF) + WPT	Yes
16	Cellular + 2.4 GHz Wi-Fi MIMO + NB U-NII + WPT	Yes
17	Cellular + 2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF) + WPT	Yes
18	Cellular + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
19	Cellular + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	Cellular + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT	Yes
21	Cellular + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
22	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
23	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT*	Yes
24	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII + WPT*	Yes
25	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT*	Yes
26	Cellular + 2.4 GHz Wi-Fi + 802.15.4 + WPT**	Yes
27	Cellular + 5/6 GHz Wi-Fi + 802.15.4 + WPT	Yes
28	Cellular + 5/6 GHz Wi-Fi MIMO + 802.15.4 + WPT	Yes
29	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4 + WPT**	Yes
30	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4 + WPT**	Yes
31	Cellular + 802.15.4 + NB U-NII + WPT	Yes
32	Cellular + 802.15.4 + NB U-NII (TXBF) + WPT	Yes
33	Cellular + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII + WPT**	Yes
34	Cellular + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF) + WPT**	Yes
35	2.4 GHz Wi-Fi MIMO + WPT	Yes
36	5/6 GHz Wi-Fi MIMO + WPT	Yes
37	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
38	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
39	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
40	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
41	2.4 GHz Bluetooth (TXBF) + WPT	Yes
42	NB U-NII (TXBF) + WPT	Yes
43	2.4 GHz Bluetooth + NB U-NII + WPT	Yes
44	2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT	Yes
45	2.4 GHz Bluetooth (TXBF) + NB U-NII + WPT	Yes
46	2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF) + WPT	Yes
47	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
48	2.4 GHz Wi-Fi + NB U-NII + WPT	Yes
49	2.4 GHz Wi-Fi + NB U-NII (TXBF) + WPT	Yes
50	2.4 GHz Wi-Fi MIMO + NB U-NII + WPT	Yes
51	2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF) + WPT	Yes
52	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
53	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
54	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT	Yes
55	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
56	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
57	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT*	Yes
58	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII + WPT*	Yes
59	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT*	Yes
60	2.4 GHz Wi-Fi + 802.15.4 + WPT**	Yes
61	5/6 GHz Wi-Fi + 802.15.4 + WPT	Yes
62	5/6 GHz Wi-Fi MIMO + 802.15.4 + WPT	Yes
63	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4 + WPT**	Yes
64	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4 + WPT**	Yes
65	802.15.4 + NB U-NII + WPT	Yes
66	802.15.4 + NB U-NII (TXBF) + WPT	Yes
67	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII + WPT**	Yes
68	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF) + WPT**	Yes

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Table 1-11
Simultaneous Transmission Scenarios of Inter-Band ULCA

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 3 LB + Cellular Ant 4b MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14/17 LTE Band transmitting from Ant 4b MB/HB: LTE B2/4/7/30/66/25
2	Cellular Ant 3 LB + Cellular Ant 1 MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14/17 LTE Band transmitting from Ant 1 MB/HB: LTE B2/4/7/30/66/25
3	Cellular Ant 3 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14/17 LTE Band transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66/25
4	Cellular Ant 1 LB + Cellular 4b MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14/17 LTE Band transmitting from Ant 4b MB/HB: LTE B2/4/7/30/66/25
5	Cellular Ant 1 LB + Cellular 3 MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14/17 LTE Band transmitting from Ant 3 MB/HB: LTE B2/4/7/30/66/25
6	Cellular Ant 1 LB + Cellular 2b MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14/17 LTE Band transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66/25

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

Table 1-12
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + WPT	Yes
2	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + WPT	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
4	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
5	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
6	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
8	LTE Inter-Band ULCA + NB U-NII (TXBF) + WPT	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + NB U-NII + WPT	Yes
10	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT	Yes
11	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + NB U-NII + WPT	Yes
12	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF) + WPT	Yes
13	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
14	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + NB U-NII + WPT	Yes
15	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + NB U-NII (TXBF) + WPT	Yes
16	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + NB U-NII + WPT	Yes
17	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF) + WPT	Yes
18	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
19	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT	Yes
21	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
22	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
23	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT*	Yes
24	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII + WPT*	Yes
25	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT*	Yes
26	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 802.15.4 + WPT**	Yes
27	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + 802.15.4 + WPT	Yes
28	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + 802.15.4 + WPT	Yes
29	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4 + WPT**	Yes
30	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4 + WPT**	Yes
31	LTE Inter-Band ULCA + 802.15.4 + NB U-NII + WPT	Yes
32	LTE Inter-Band ULCA + 802.15.4 + NB U-NII (TXBF) + WPT	Yes
33	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII + WPT**	Yes
34	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF) + WPT**	Yes

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

1. *2.4GHz WIFI and 2.4 GHz Bluetooth can transmit simultaneously on different antennas.
2. **2.4 GHz WIFI and 802.15.4 can transmit simultaneously on different antennas.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenario Document.
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.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-1 was evaluated for Antenna 4a, and U-NII-2A was evaluated for Antenna 2a and Antenna WF5B. Additional testing for U-NII-2A Antenna 4a and for U-NII-1 Antenna 2a and Antenna WF5B SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

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

This device supports IEEE 802.11ac with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) 3 Tx antenna output
- c) 256 QAM is supported
- d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 3 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.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

(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.

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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 LTE DLCA RF Conducted Powers Appendix.

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 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, 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.

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.

1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim 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)
- November 2017, April 2018, October 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)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)

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- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.8 Device Serial Numbers

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

1.9 Bibliography

Report Type	Report Serial Number
FCC TAS Cellular Validation Report	1C2504170041-04.BCG
FCC TAS Connectivity Validation Report	1C2504170041-03.BCG

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2 LTE AND NR INFORMATION

LTE Information				
Form Factor	Tablet			
Frequency Range of each LTE transmission	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 66 (AWS) (1710.7 - 1779.3 MHz)			
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)			
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)			
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)			
	LTE Band 30 (2307.5 - 2312.5 MHz)			
	LTE Band 7 (2502.5 - 2597.5 MHz)			
	LTE Band 41 (2498.5 - 2687.5 MHz)			
	LTE Band 48 (3552.5 - 3697.5 MHz)			
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 17: 5 MHz, 10 MHz			
	LTE Band 13: 5 MHz, 10 MHz			
	LTE Band 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, 15 MHz, 20 MHz			
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 30: 5 MHz, 10 MHz			
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 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	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)	782 (23240)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26897)	831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26795)	831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)
UE Category	UL UE Cat 18, DL UE Cat 20			
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM			
LTE MPR Permanently implemented per	YES			
A-MPR (Additional MPR) disabled for SAR	YES			
LTE Carrier Aggregation Possible	The technical description includes all the possible carrier aggregation combinations			
Combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation and downlink MIMO features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFi Offloading.			

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3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

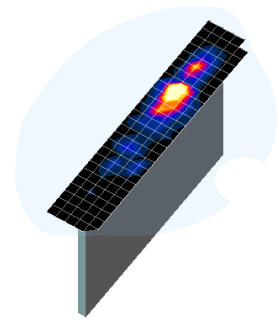


Figure 4-1
Sample SAR Area
Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 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. Body exposure for all §2.1093-Portable devices (including tablets) must be demonstrated at distances not to exceed 5 mm. This separation distance of 5 mm between the tablet and the phantom was used for evaluating SAR compliance. The SAR Exclusion Threshold in KDB 447498 D04v01 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 people 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 people in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by people 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 people 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.

6.3 RF Exposure Limits for Frequencies below 6 GHz

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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6.4 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 6-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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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 D04v01, 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 an RF shielded chamber. Establishing connections in this manner ensures 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 (DPCH, DPDCH_n and spreading codes, HS-DPCH 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 ensures 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 the 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 with 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 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8 RF CONDUCTED POWERS

8.1 UMTS P_{limit} Conducted Powers

Table 8-1
Measured P_{limit} Antenna 1

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	23.11	23.01	23.04	21.12	21.14	20.98	18.09	17.94	17.90	-
6	HSDPA	Subtest 1	23.10	23.00	22.95	21.10	21.12	20.96	18.07	17.87	17.66	0
6		Subtest 2	22.96	22.88	22.85	20.91	20.96	20.71	18.02	17.81	17.65	0
6		Subtest 3	22.54	22.51	22.49	20.41	20.54	20.43	17.58	17.46	17.37	0.5
6		Subtest 4	22.47	22.36	22.31	20.42	20.46	20.28	17.53	17.36	17.26	0.5
6	HSUPA	Subtest 1	23.00	22.93	22.90	20.87	20.91	20.72	18.02	17.90	17.81	0
6		Subtest 2	20.95	20.86	20.79	18.70	18.75	18.53	16.06	15.86	15.61	2
6		Subtest 3	21.72	21.66	21.61	19.45	19.50	19.31	16.82	16.60	16.52	1
6		Subtest 4	21.10	20.98	20.90	18.95	18.99	18.81	16.12	15.96	15.89	2
6		Subtest 5	22.94	22.97	22.82	20.87	20.90	20.73	18.01	17.80	17.77	0
8	DC-HSDPA	Subtest 1	23.05	22.94	22.89	21.06	21.09	21.02	18.05	17.92	17.64	0
8		Subtest 2	22.91	22.89	22.83	20.85	21.01	20.68	17.96	17.89	17.66	0
8		Subtest 3	22.50	22.48	22.44	20.38	20.46	20.44	17.53	17.48	17.32	0.5
8		Subtest 4	22.45	22.37	22.30	20.39	20.38	20.22	17.46	17.35	17.18	0.5

Table 8-2
Measured P_{limit} Antenna 2b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	19.79	19.72	19.75	20.33	20.19	20.26	-
6	HSDPA	Subtest 1	19.75	19.72	19.73	20.31	20.25	20.23	0
6		Subtest 2	19.71	19.66	19.61	20.21	20.14	20.06	0
6		Subtest 3	19.15	19.28	19.22	19.76	19.64	19.55	0.5
6		Subtest 4	19.14	19.15	19.14	19.64	19.53	19.50	0.5
6	HSUPA	Subtest 1	19.70	19.71	19.62	20.16	20.08	20.05	0
6		Subtest 2	17.61	17.64	17.56	18.12	18.01	17.94	2
6		Subtest 3	18.44	18.37	18.37	19.10	18.91	18.85	1
6		Subtest 4	17.75	17.66	17.65	18.30	18.14	18.12	2
6		Subtest 5	19.58	19.49	19.48	20.17	20.09	20.03	0
8	DC-HSDPA	Subtest 1	19.76	19.71	19.74	20.30	20.28	20.22	0
8		Subtest 2	19.70	19.68	19.63	20.18	20.12	20.07	0
8		Subtest 3	19.18	19.27	19.25	19.66	19.62	19.53	0.5
8		Subtest 4	19.21	19.18	19.16	19.61	19.51	19.48	0.5

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Table 8-3
Measured P_{limit} Antenna 3

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	22.75	22.79	22.72	17.36	17.38	17.20	17.71	17.52	17.31	-
6	HSDPA	Subtest 1	22.73	22.74	22.71	17.35	17.35	17.19	17.67	17.50	17.47	0
6		Subtest 2	22.66	22.65	22.65	17.20	17.22	17.03	17.15	17.25	17.20	0
6		Subtest 3	22.20	22.26	22.25	16.70	16.68	16.51	16.95	16.82	16.71	0.5
6		Subtest 4	22.15	22.15	22.14	16.62	16.61	16.44	16.85	16.62	16.64	0.5
6	HSUPA	Subtest 1	22.72	22.73	22.67	17.06	17.03	16.95	17.55	17.37	17.23	0
6		Subtest 2	20.64	20.66	20.62	15.02	14.98	14.85	15.49	15.34	15.20	2
6		Subtest 3	21.41	21.44	21.39	15.92	15.91	15.82	16.26	16.18	15.98	1
6		Subtest 4	20.84	20.83	20.81	15.12	15.11	15.06	15.78	15.60	15.44	2
6		Subtest 5	22.70	22.72	22.67	17.10	17.12	17.02	17.53	17.37	17.21	0
8	DC-HSDPA	Subtest 1	22.71	22.75	22.69	17.31	17.30	17.21	17.51	17.43	17.38	0
8		Subtest 2	22.64	22.67	22.61	17.15	17.21	17.13	17.34	17.21	17.18	0
8		Subtest 3	22.18	22.24	22.23	16.67	16.69	16.48	16.92	16.85	16.78	0.5
8		Subtest 4	22.08	22.10	22.11	16.60	16.58	16.42	16.88	16.84	16.69	0.5

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	17.45	17.50	17.44	19.51	19.42	19.20	-
6	HSDPA	Subtest 1	17.46	17.41	17.37	19.46	19.41	19.36	0
6		Subtest 2	17.11	17.31	17.20	19.24	19.17	19.03	0
6		Subtest 3	17.09	16.78	16.82	18.85	18.78	18.63	0.5
6		Subtest 4	16.90	16.72	16.63	18.69	18.62	18.40	0.5
6	HSUPA	Subtest 1	17.41	17.24	17.15	19.28	19.16	18.94	0
6		Subtest 2	15.35	15.19	15.18	17.12	17.07	16.86	2
6		Subtest 3	16.15	15.98	15.92	18.04	17.92	17.80	1
6		Subtest 4	15.61	15.43	15.34	17.32	17.22	17.06	2
6		Subtest 5	17.40	17.22	17.16	19.21	19.06	18.98	0
8	DC-HSDPA	Subtest 1	17.44	17.38	17.36	19.43	19.40	19.35	0
8		Subtest 2	17.18	17.25	17.16	19.20	19.18	18.96	0
8		Subtest 3	17.10	16.85	16.88	18.92	18.65	18.61	0.5
8		Subtest 4	16.92	16.85	16.69	18.85	18.73	18.52	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 P_{limit} Conducted Powers

Notes: 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 the LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.2.1

LTE Band 71

Table 8-5

LTE Band 71 Measured P_{limit} Antenna 1 - 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	23.33	0	0
	1	50	23.43		0
	1	99	23.30		0
	50	0	23.34	0-1	0.3
	50	25	23.38		0.3
	50	50	23.31		0.3
	100	0	23.37		0.3
16QAM	1	0	23.00	0-1	0.3
	1	50	23.04		0.3
	1	99	23.01		0.3
	50	0	22.52	0-2	1.3
	50	25	22.48		1.3
	50	50	22.46		1.3
	100	0	22.55		1.3
64QAM	1	0	22.49	0-2	1.3
	1	50	22.46		1.3
	1	99	22.47		1.3
	50	0	21.52	0-3	2.3
	50	25	21.56		2.3
	50	50	21.44		2.3
	100	0	21.58		2.3
256QAM	1	0	19.39	0-5	4.3
	1	50	19.37		4.3
	1	99	19.38		4.3
	50	0	19.48		4.3
	50	25	19.51		4.3
	50	50	19.41		4.3
	100	0	19.55		4.3

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Table 8-6
LTE Band 71 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.54	0	0
	1	50	22.71		0
	1	99	22.56		0
	50	0	22.76	0-1	0
	50	25	22.72		0
	50	50	22.69		0
	100	0	22.70		0
16QAM	1	0	22.68	0-1	0
	1	50	22.76		0
	1	99	22.75		0
	50	0	22.82	0-2	0.2
	50	25	22.80		0.2
	50	50	22.78		0.2
	100	0	22.81		0.2
64QAM	1	0	22.55	0-2	0.2
	1	50	22.56		0.2
	1	99	22.54		0.2
	50	0	22.23	0-3	1.2
	50	25	22.22		1.2
	50	50	22.25		1.2
	100	0	22.20		1.2
256QAM	1	0	20.23	0-5	3.2
	1	50	20.24		3.2
	1	99	20.21		3.2
	50	0	20.20		3.2
	50	25	20.15		3.2
	50	50	20.13		3.2
	100	0	20.10		3.2

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8.2.2

LTE Band 12

Table 8-7

LTE Band 12 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.15	0	0
	1	25	23.13		0
	1	49	23.10		0
	25	0	23.05	0-1	0.3
	25	12	23.11		0.3
	25	25	23.04		0.3
	50	0	22.94		0.3
16QAM	1	0	23.01	0-1	0.3
	1	25	22.93		0.3
	1	49	22.91		0.3
	25	0	22.63	0-2	1.3
	25	12	22.68		1.3
	25	25	22.69		1.3
	50	0	22.68		1.3
64QAM	1	0	22.69	0-2	1.3
	1	25	22.44		1.3
	1	49	22.57		1.3
	25	0	21.60	0-3	2.3
	25	12	21.63		2.3
	25	25	21.64		2.3
	50	0	21.69		2.3
256QAM	1	0	19.59	0-5	4.3
	1	25	19.33		4.3
	1	49	19.40		4.3
	25	0	19.63		4.3
	25	12	19.60		4.3
	25	25	19.62		4.3
	50	0	19.68		4.3

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Table 8-8
LTE Band 12 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.23	0	0
	1	25	23.28		0
	1	49	23.26		0
	25	0	23.29	0-1	0
	25	12	23.26		0
	25	25	23.28		0
	50	0	23.22		0
16QAM	1	0	23.52	0-1	0
	1	25	23.59		0
	1	49	23.34		0
	25	0	23.10	0-2	0.8
	25	12	23.12		0.8
	25	25	23.22		0.8
	50	0	23.19		0.8
64QAM	1	0	23.10	0-2	0.8
	1	25	23.05		0.8
	1	49	23.04		0.8
	25	0	22.03	0-3	1.8
	25	12	22.06		1.8
	25	25	22.04		1.8
	50	0	22.02		1.8
256QAM	1	0	20.30	0-5	3.8
	1	25	20.38		3.8
	1	49	20.35		3.8
	25	0	20.35		3.8
	25	12	20.34		3.8
	25	25	20.30		3.8
	50	0	20.25		3.8

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8.2.3

LTE Band 13

Table 8-9

LTE Band 13 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.40	0	0
	1	25	23.19		0
	1	49	23.11		0
	25	0	23.39	0-1	0.3
	25	12	23.34		0.3
	25	25	23.31		0.3
	50	0	23.34		0.3
16QAM	1	0	22.66	0-1	0.3
	1	25	22.79		0.3
	1	49	22.87		0.3
	25	0	22.61	0-2	1.3
	25	12	22.59		1.3
	25	25	22.58		1.3
	50	0	22.55		1.3
64QAM	1	0	22.55	0-2	1.3
	1	25	22.51		1.3
	1	49	22.50		1.3
	25	0	21.55	0-3	2.3
	25	12	21.56		2.3
	25	25	21.63		2.3
	50	0	21.44		2.3
256QAM	1	0	19.51	0-5	4.3
	1	25	19.53		4.3
	1	49	19.56		4.3
	25	0	19.52		4.3
	25	12	19.50		4.3
	25	25	19.55		4.3
	50	0	19.45		4.3

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Table 8-10
LTE Band 13 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.66	0	0
	1	25	22.70		0
	1	49	22.73		0
	25	0	22.67	0-1	0
	25	12	22.75		0
	25	25	22.68		0
	50	0	22.62		0
16QAM	1	0	22.68	0-1	0
	1	25	22.74		0
	1	49	22.70		0
	25	0	22.68	0-2	0
	25	12	22.80		0
	25	25	22.68		0
	50	0	22.66		0
64QAM	1	0	22.45	0-2	0
	1	25	22.46		0
	1	49	22.44		0
	25	0	22.38	0-3	0.7
	25	12	22.39		0.7
	25	25	22.42		0.7
	50	0	22.36		0.7
256QAM	1	0	20.35	0-5	2.7
	1	25	20.32		2.7
	1	49	20.36		2.7
	25	0	20.31		2.7
	25	12	20.37		2.7
	25	25	20.30		2.7
	50	0	20.29		2.7

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8.2.4

LTE Band 14

Table 8-11

LTE Band 14 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.85	0	0
	1	25	23.91		0
	1	49	23.92		0
	25	0	23.65	0-1	0.3
	25	12	23.55		0.3
	25	25	23.67		0.3
	50	0	23.62		0.3
16QAM	1	0	23.46	0-1	0.3
	1	25	23.49		0.3
	1	49	23.47		0.3
	25	0	22.67	0-2	1.3
	25	12	22.69		1.3
	25	25	22.62		1.3
	50	0	22.61		1.3
64QAM	1	0	22.68	0-2	1.3
	1	25	22.61		1.3
	1	49	22.60		1.3
	25	0	21.62	0-3	2.3
	25	12	21.60		2.3
	25	25	21.61		2.3
	50	0	21.54		2.3
256QAM	1	0	19.62	0-5	4.3
	1	25	19.54		4.3
	1	49	19.65		4.3
	25	0	19.63		4.3
	25	12	19.61		4.3
	25	25	19.67		4.3
	50	0	19.51		4.3

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Table 8-12
LTE Band 14 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.34	0	0
	1	25	22.41		0
	1	49	22.42		0
	25	0	22.60	0-1	0
	25	12	22.52		0
	25	25	22.58		0
	50	0	22.41		0
16QAM	1	0	22.38	0-1	0
	1	25	22.40		0
	1	49	22.46		0
	25	0	22.59	0-2	0
	25	12	22.54		0
	25	25	22.55		0
	50	0	22.52		0
64QAM	1	0	22.47	0-2	0
	1	25	22.54		0
	1	49	22.46		0
	25	0	22.44	0-3	0.7
	25	12	22.47		0.7
	25	25	22.44		0.7
	50	0	22.48		0.7
256QAM	1	0	20.40	0-5	2.7
	1	25	20.41		2.7
	1	49	20.34		2.7
	25	0	20.42		2.7
	25	12	20.45		2.7
	25	25	20.39		2.7
	50	0	20.35		2.7

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8.2.5

LTE Band 26

Table 8-13

LTE Band 26 (Cell) Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.94	23.11	22.95	0	0
	1	25	23.09	23.19	23.04		0
	1	49	22.98	23.15	23.01		0
	25	0	23.08	23.12	23.19	0-1	0.3
	25	12	23.17	23.09	23.21		0.3
	25	25	23.16	23.08	23.16		0.3
	50	0	23.11	23.10	23.03		0.3
16QAM	1	0	22.97	23.02	22.90	0-1	0.3
	1	25	23.08	23.13	22.98		0.3
	1	49	23.21	23.09	22.98		0.3
	25	0	21.93	21.92	21.89	0-2	1.3
	25	12	21.95	22.05	22.06		1.3
	25	25	21.88	21.84	21.82		1.3
	50	0	21.92	22.00	21.92		1.3
64QAM	1	0	22.41	22.42	22.36	0-2	1.3
	1	25	22.46	22.45	22.44		1.3
	1	49	22.42	22.50	22.49		1.3
	25	0	20.88	20.78	20.74	0-3	2.3
	25	12	20.78	20.69	20.68		2.3
	25	25	20.75	20.71	20.64		2.3
	50	0	20.84	20.76	20.75		2.3
256QAM	1	0	19.15	19.16	19.12	0-5	4.3
	1	25	19.05	19.01	18.93		4.3
	1	49	19.01	18.94	18.86		4.3
	25	0	18.95	18.88	18.85		4.3
	25	12	19.06	18.96	18.92		4.3
	25	25	18.98	19.01	18.82		4.3
	50	0	19.03	18.85	18.83		4.3

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Table 8-14
LTE Band 26 (Cell) Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.91	22.79	22.72	0	0
	1	25	23.02	22.82	22.75		0
	1	49	22.98	22.76	22.74		0
	25	0	22.98	22.97	22.79	0-1	0
	25	12	22.93	22.96	22.83		0
	25	25	22.91	22.95	22.87		0
	50	0	22.90	22.81	22.74		0
16QAM	1	0	23.41	23.37	23.42	0-1	0
	1	25	23.37	23.41	23.44		0
	1	49	23.36	23.35	23.39		0
	25	0	23.29	23.28	23.05	0-2	0
	25	12	23.26	23.25	23.09		0
	25	25	23.24	23.25	23.07		0
	50	0	23.30	23.31	23.18		0
64QAM	1	0	23.16	23.21	23.08	0-2	0
	1	25	23.15	23.24	23.12		0
	1	49	23.16	23.22	23.11		0
	25	0	22.53	22.54	22.46	0-3	0.9
	25	12	22.53	22.52	22.48		0.9
	25	25	22.54	22.55	22.45		0.9
	50	0	22.55	22.57	22.44		0.9
256QAM	1	0	20.04	19.76	19.75	0-5	2.9
	1	25	19.89	19.84	19.76		2.9
	1	49	20.10	19.86	19.76		2.9
	25	0	19.98	19.73	19.71		2.9
	25	12	19.94	19.85	19.73		2.9
	25	25	20.07	19.87	19.72		2.9
	50	0	19.97	19.76	19.74		2.9

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8.2.6

LTE Band 5

Table 8-15

LTE Band 5 (Cell) Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.87	0	0
	1	25	23.17		0
	1	49	22.96		0
	25	0	23.12	0-1	0.3
	25	12	23.16		0.3
	25	25	23.15		0.3
	50	0	22.90		0.3
16QAM	1	0	22.84	0-1	0.3
	1	25	22.94		0.3
	1	49	22.91		0.3
	25	0	22.48	0-2	1.3
	25	12	22.52		1.3
	25	25	22.50		1.3
	50	0	22.53		1.3
64QAM	1	0	22.51	0-2	1.3
	1	25	22.54		1.3
	1	49	22.52		1.3
	25	0	21.45	0-3	2.3
	25	12	21.48		2.3
	25	25	21.47		2.3
	50	0	21.44		2.3
256QAM	1	0	19.53	0-5	4.3
	1	25	19.48		4.3
	1	49	19.43		4.3
	25	0	19.23		4.3
	25	12	19.28		4.3
	25	25	19.35		4.3
	50	0	19.33		4.3

Table 8-16

LTE Band 5 (Cell) Measured P_{limit} Antenna 1 Uplink Carrier Aggregation

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	22.68	22.90

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Table 8-17
LTE Band 5 (Cell) Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.77	0	0
	1	25	22.69		0
	1	49	22.60		0
	25	0	22.92	0-1	0
	25	12	22.88		0
	25	25	22.86		0
	50	0	22.76		0
					0
16QAM	1	0	22.85	0-1	0
	1	25	22.88		0
	1	49	22.87		0
	25	0	22.86	0-2	0
	25	12	22.90		0
	25	25	22.83		0
	50	0	22.85		0
					0
64QAM	1	0	22.80	0-2	0
	1	25	22.82		0
	1	49	22.78		0
	25	0	21.70	0-3	0.9
	25	12	21.60		0.9
	25	25	21.77		0.9
	50	0	21.70		0.9
					0.9
256QAM	1	0	19.64	0-5	2.9
	1	25	19.77		2.9
	1	49	19.68		2.9
	25	0	19.60		2.9
	25	12	19.76		2.9
	25	25	19.75		2.9
	50	0	19.59		2.9
					2.9

Table 8-18
LTE Band 5 (Cell) Measured P_{limit} Antenna 3 Uplink Carrier Aggregation

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	22.91	22.77

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LTE Band 66

Table 8-19

LTE Band 66 (AWS) Measured P_{limit} Antenna 1 - 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	20.41	20.55	20.47	0	0
	1	50	20.70	20.52	20.56		0
	1	99	20.45	20.47	20.49		0
	50	0	20.74	20.53	20.58	0-1	0
	50	25	20.70	20.44	20.55		0
	50	50	20.60	20.54	20.48		0
	100	0	20.62	20.51	20.60		0
16QAM	1	0	20.56	20.53	20.35	0-1	0
	1	50	20.70	20.55	20.49		0
	1	99	20.64	20.48	20.22		0
	50	0	20.33	20.32	20.23	0-2	0
	50	25	20.27	20.22	20.31		0
	50	50	20.37	20.28	20.39		0
	100	0	20.31	20.27	20.32		0
64QAM	1	0	20.47	20.59	20.22	0-2	0
	1	50	20.61	20.48	20.36		0
	1	99	20.59	20.45	20.29		0
	50	0	20.32	20.35	20.27	0-3	0
	50	25	20.28	20.26	20.34		0
	50	50	20.38	20.29	20.32		0
	100	0	20.31	20.31	20.21		0
256QAM	1	0	19.51	19.47	19.39	0-5	0.9
	1	50	19.58	19.50	19.44		0.9
	1	99	19.61	19.41	19.36		0.9
	50	0	19.86	19.84	19.74		0.9
	50	25	19.79	19.74	19.63		0.9
	50	50	19.89	19.76	19.60		0.9
	100	0	19.86	19.81	19.70		0.9

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Table 8-20
LTE Band 66 (AWS) Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.60	19.56	19.23	0	0
	1	50	19.83	19.74	19.41		0
	1	99	19.58	19.44	19.19		0
	50	0	19.81	19.69	19.59	0-1	0
	50	25	19.79	19.67	19.58		0
	50	50	19.75	19.61	19.56		0
16QAM	100	0	19.80	19.68	19.61	0	
	1	0	19.52	19.59	19.73	0-1	0
	1	50	19.63	19.57	19.74		0
	1	99	19.47	19.70	19.75		0
	50	0	19.54	19.57	19.51	0-2	0
	50	25	19.52	19.69	19.56		0
50	50	19.69	19.46	19.65	0		
64QAM	100	0	19.44	19.70	19.47	0	
	1	0	19.64	19.48	19.66	0-2	0
	1	50	19.75	19.64	19.61		0
	1	99	19.47	19.43	19.43		0
	50	0	19.43	19.54	19.58	0-3	0
	50	25	19.54	19.60	19.46		0
50	50	19.76	19.43	19.52	0		
256QAM	100	0	19.68	19.48	19.64	0	
	1	0	19.59	19.44	19.74	0-5	0
	1	50	19.44	19.51	19.79		0
	1	99	19.67	19.73	19.64		0
	50	0	19.53	19.64	19.52		0
	50	25	19.55	19.52	19.46		0
	50	50	19.77	19.64	19.72		0
100	0	19.44	19.70	19.56	0		

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Table 8-21
LTE Band 66 (AWS) Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.08	17.00	17.08	0	0
	1	50	17.39	17.19	17.28		0
	1	99	17.14	17.18	17.03		0
	50	0	17.39	17.03	17.22	0-1	0
	50	25	17.11	17.06	17.00		0
	50	50	17.30	17.32	17.01		0
	100	0	17.37	17.31	17.28		0
16QAM	1	0	16.85	17.08	16.77	0-1	0
	1	50	17.14	17.16	16.89		0
	1	99	16.86	16.99	16.69		0
	50	0	16.85	16.82	16.72	0-2	0
	50	25	16.96	16.77	16.71		0
	50	50	16.93	16.83	16.76		0
	100	0	17.04	16.85	16.78		0
64QAM	1	0	16.92	16.84	16.96	0-2	0
	1	50	17.16	16.79	17.01		0
	1	99	17.06	16.88	16.91		0
	50	0	16.87	16.83	16.75	0-3	0
	50	25	16.98	16.79	16.72		0
	50	50	16.96	16.85	16.78		0
	100	0	17.06	16.87	16.80		0
256QAM	1	0	16.95	16.93	16.91	0-5	0
	1	50	17.11	17.02	17.01		0
	1	99	17.04	16.87	16.88		0
	50	0	16.88	16.85	16.75		0
	50	25	16.99	16.80	16.71		0
	50	50	16.96	16.87	16.77		0
	100	0	17.03	16.86	16.79		0

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Table 8-22
LTE Band 66 (AWS) Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.69	17.46	17.30	0	0
	1	50	17.81	17.67	17.52		0
	1	99	17.62	17.45	17.48		0
	50	0	17.81	17.67	17.60	0-1	0
	50	25	17.71	17.72	17.58		0
	50	50	17.70	17.71	17.71		0
	100	0	17.76	17.73	17.63		0
16QAM	1	0	17.60	17.69	17.45	0-1	0
	1	50	17.49	17.66	17.75		0
	1	99	17.31	17.49	17.55		0
	50	0	17.59	17.57	17.59	0-2	0
	50	25	17.74	17.69	17.74		0
	50	50	17.31	17.41	17.54		0
	100	0	17.66	17.62	17.70		0
64QAM	1	0	17.50	17.31	17.52	0-2	0
	1	50	17.56	17.71	17.75		0
	1	99	17.35	17.51	17.72		0
	50	0	17.65	17.73	17.69	0-3	0
	50	25	17.72	17.74	17.71		0
	50	50	17.33	17.36	17.33		0
	100	0	17.40	17.35	17.54		0
256QAM	1	0	17.51	17.75	17.49	0-5	0
	1	50	17.70	17.39	17.52		0
	1	99	17.41	17.57	17.71		0
	50	0	17.46	17.70	17.46		0
	50	25	17.38	17.32	17.59		0
	50	50	17.57	17.65	17.56		0
	100	0	17.33	17.47	17.61		0

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LTE Band 25

Table 8-23

LTE Band 25 (PCS) Measured P_{limit} Antenna 1 - 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	17.57	17.44	17.41	0	0
	1	50	17.91	17.66	17.52		0
	1	99	17.54	17.45	17.49		0
	50	0	17.73	17.58	17.58	0-1	0
	50	25	17.82	17.62	17.51		0
	50	50	17.71	17.63	17.45		0
	100	0	17.81	17.66	17.55		0
16QAM	1	0	17.84	17.70	17.79	0-1	0
	1	50	17.85	17.91	17.67		0
	1	99	17.69	17.75	17.63		0
	50	0	17.67	17.53	17.50	0-2	0
	50	25	17.69	17.62	17.54		0
	50	50	17.68	17.57	17.44		0
	100	0	17.75	17.61	17.57		0
64QAM	1	0	17.79	17.70	17.56	0-2	0
	1	50	17.89	17.81	17.66		0
	1	99	17.65	17.74	17.50		0
	50	0	17.71	17.54	17.53	0-3	0
	50	25	17.72	17.53	17.54		0
	50	50	17.70	17.57	17.44		0
	100	0	17.78	17.59	17.61		0
256QAM	1	0	17.81	17.49	17.61	0-5	0
	1	50	17.85	17.72	17.76		0
	1	99	17.90	17.71	17.61		0
	50	0	17.70	17.57	17.51		0
	50	25	17.69	17.56	17.55		0
	50	50	17.69	17.60	17.46		0
	100	0	17.76	17.59	17.52		0

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Table 8-24
LTE Band 25 (PCS) Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.11	20.02	19.60	0	0
	1	50	20.35	20.13	20.07		0
	1	99	20.06	19.94	19.49		0
	50	0	20.31	20.17	20.10	0-1	0
	50	25	20.28	20.10	19.99		0
	50	50	20.21	20.08	19.90		0
	100	0	20.29	20.09	19.72		0
16QAM	1	0	19.99	20.04	19.51	0-1	0
	1	50	20.33	20.17	19.56		0
	1	99	20.01	19.97	19.50		0
	50	0	19.92	19.71	19.66	0-2	0
	50	25	19.94	19.72	19.61		0
	50	50	19.87	19.67	19.52		0
	100	0	19.96	19.75	19.63		0
64QAM	1	0	19.92	19.95	19.66	0-2	0
	1	50	20.12	20.01	19.75		0
	1	99	19.97	19.87	19.56		0
	50	0	19.95	19.74	19.69	0-3	0
	50	25	19.94	19.74	19.65		0
	50	50	19.87	19.75	19.56		0
	100	0	19.98	19.78	19.67		0
256QAM	1	0	18.70	18.72	18.68	0-5	1.3
	1	50	18.67	18.69	18.71		1.3
	1	99	18.72	18.74	18.70		1.3
	50	0	18.75	18.78	18.74		1.3
	50	25	18.71	18.72	18.73		1.3
	50	50	18.76	18.75	18.77		1.3
	100	0	18.70	18.67	18.65		1.3

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Table 8-25
LTE Band 25 (PCS) Measured P_{limit} Antenna 3 - 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	17.47	17.37	17.22	0	0
	1	50	17.71	17.50	17.05		0
	1	99	17.44	17.40	16.90		0
	50	0	17.72	17.57	17.31	0-1	0
	50	25	17.69	17.49	17.30		0
	50	50	17.66	17.51	17.32		0
	100	0	17.69	17.49	17.38		0
16QAM	1	0	17.42	17.53	17.44	0-1	0
	1	50	17.68	17.57	17.51		0
	1	99	17.51	17.41	17.30		0
	50	0	17.57	17.34	17.16	0-2	0
	50	25	17.48	17.32	17.17		0
	50	50	17.47	17.32	17.17		0
	100	0	17.56	17.40	17.24		0
64QAM	1	0	17.62	17.42	17.24	0-2	0
	1	50	17.72	17.52	17.29		0
	1	99	17.68	17.46	17.13		0
	50	0	17.60	17.36	17.18	0-3	0
	50	25	17.50	17.33	17.18		0
	50	50	17.49	17.34	17.18		0
	100	0	17.58	17.42	17.26		0
256QAM	1	0	17.61	17.55	17.37	0-5	0
	1	50	17.71	17.65	17.62		0
	1	99	17.68	17.38	17.40		0
	50	0	17.59	17.35	17.16		0
	50	25	17.50	17.33	17.17		0
	50	50	17.49	17.34	17.17		0
	100	0	17.56	17.39	17.20		0

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Table 8-26
LTE Band 25 (PCS) Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.11	18.76	18.78	0	0
	1	50	19.23	18.85	18.91		0
	1	99	19.00	18.64	18.64		0
	50	0	19.20	19.10	18.94	0-1	0
	50	25	19.16	19.09	18.85		0
	50	50	19.15	19.07	18.77		0
	100	0	19.19	19.14	18.91		0
16QAM	1	0	18.94	19.00	19.00	0-1	0
	1	50	18.88	18.73	18.62		0
	1	99	18.68	18.65	19.06		0
	50	0	18.86	19.06	18.95	0-2	0
	50	25	18.99	19.10	19.10		0
	50	50	18.81	18.68	18.62		0
	100	0	18.95	18.93	18.57		0
64QAM	1	0	18.97	19.03	18.84	0-2	0
	1	50	18.93	18.82	18.91		0
	1	99	18.64	18.85	19.00		0
	50	0	18.56	18.72	18.73	0-3	0
	50	25	18.96	18.82	18.58		0
	50	50	19.07	18.90	18.74		0
	100	0	18.92	18.97	18.89		0
256QAM	1	0	19.12	18.80	18.78	0-5	0
	1	50	18.87	18.74	19.12		0
	1	99	19.04	19.14	18.88		0
	50	0	18.78	18.77	18.67		0
	50	25	18.86	18.73	18.78		0
	50	50	18.71	18.95	18.82		0
	100	0	19.01	18.57	18.72		0

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LTE Band 30

Table 8-27

LTE Band 30 Measured P_{limit} Antenna 1 - 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	20.17	0	0
	1	25	20.21		0
	1	49	20.34		0
	25	0	20.32	0-1	0
	25	12	20.31		0
	25	25	20.35		0
	50	0	20.33		0
16QAM	1	0	20.31	0-1	0
	1	25	20.30		0
	1	49	20.29		0
	25	0	19.96	0-2	0
	25	12	19.98		0
	25	25	19.93		0
	50	0	20.11		0
64QAM	1	0	20.12	0-2	0
	1	25	20.15		0
	1	49	20.22		0
	25	0	19.99	0-3	0
	25	12	19.99		0
	25	25	19.95		0
	50	0	19.91		0
256QAM	1	0	19.81	0-5	0.1
	1	25	19.84		0.1
	1	49	19.88		0.1
	25	0	19.64		0.1
	25	12	19.65		0.1
	25	25	19.69		0.1
	50	0	19.70		0.1

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Table 8-28
LTE Band 30 Measured P_{limit} Antenna 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.48	0	0
	1	25	19.61		0
	1	49	19.48		0
	25	0	19.67	0-1	0
	25	12	19.60		0
	25	25	19.61		0
	50	0	19.58		0
16QAM	1	0	19.25	0-1	0
	1	25	19.31		0
	1	49	19.22		0
	25	0	18.92	0-2	0
	25	12	18.92		0
	25	25	18.90		0
	50	0	19.00		0
64QAM	1	0	19.04	0-2	0
	1	25	18.95		0
	1	49	19.01		0
	25	0	18.94	0-3	0
	25	12	18.90		0
	25	25	18.87		0
	50	0	18.94		0
256QAM	1	0	19.07	0-5	0.8
	1	25	19.05		0.8
	1	49	19.00		0.8
	25	0	18.93		0.8
	25	12	18.88		0.8
	25	25	18.89		0.8
	50	0	18.94		0.8

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Table 8-29
LTE Band 30 Measured P_{limit} Antenna 3 - 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	17.33	0	0
	1	25	17.28		0
	1	49	17.20		0
	25	0	17.38	0-1	0
	25	12	17.26		0
	25	25	17.24		0
	50	0	17.30		0
16QAM	1	0	17.31	0-1	0
	1	25	17.34		0
	1	49	17.31		0
	25	0	17.00	0-2	0
	25	12	17.02		0
	25	25	17.00		0
	50	0	17.08		0
64QAM	1	0	17.21	0-2	0
	1	25	17.22		0
	1	49	17.16		0
	25	0	17.01	0-3	0
	25	12	17.04		0
	25	25	17.00		0
	50	0	17.08		0
256QAM	1	0	17.31	0-5	0
	1	25	17.28		0
	1	49	17.27		0
	25	0	17.06		0
	25	12	17.08		0
	25	25	17.04		0
	50	0	17.12		0

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Table 8-30
LTE Band 30 Measured P_{limit} Antenna 4b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.72	0	0
	1	25	18.99		0
	1	49	18.72		0
	25	0	18.95	0-1	0
	25	12	18.98		0
	25	25	18.95		0
	50	0	18.97		0
16QAM	1	0	18.69	0-1	0
	1	25	18.56		0
	1	49	18.55		0
	25	0	18.71	0-2	0
	25	12	18.82		0
	25	25	18.93		0
	50	0	18.94		0
64QAM	1	0	18.84	0-2	0
	1	25	18.70		0
	1	49	18.69		0
	25	0	18.56	0-3	0
	25	12	18.94		0
	25	25	18.61		0
	50	0	18.60		0
256QAM	1	0	18.71	0-5	0
	1	25	18.73		0
	1	49	18.95		0
	25	0	18.75		0
	25	12	18.87		0
	25	25	18.62		0
	50	0	18.80		0

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8.2.10

LTE Band 7

Table 8-31

LTE Band 7 Measured P_{limit} Antenna 1 - 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	17.75	17.88	17.78	0	0
	1	50	18.09	18.01	18.13		0
	1	99	17.87	17.97	18.03		0
	50	0	18.08	18.05	18.03	0-1	0
	50	25	18.01	18.00	18.06		0
	50	50	18.02	18.02	18.18		0
	100	0	18.05	18.05	18.10	0	
16QAM	1	0	17.75	17.85	18.08	0-1	0
	1	50	17.99	18.11	18.07		0
	1	99	17.92	17.95	18.10		0
	50	0	17.75	17.82	17.87	0-2	0
	50	25	17.74	17.94	17.88		0
	50	50	17.77	17.81	17.86		0
	100	0	17.71	17.97	17.90	0	
64QAM	1	0	17.73	17.96	17.86	0-2	0
	1	50	17.99	18.05	17.95		0
	1	99	17.80	17.92	17.85		0
	50	0	17.76	17.84	17.87	0-3	0
	50	25	17.75	17.95	17.90		0
	50	50	17.79	17.83	17.88		0
	100	0	17.77	17.96	17.93	0	
256QAM	1	0	17.81	17.86	17.90	0-5	0
	1	50	18.07	18.01	18.04		0
	1	99	17.92	17.87	17.92		0
	50	0	17.74	17.85	17.89		0
	50	25	17.73	17.93	17.91		0
	50	50	17.82	17.81	17.88		0
	100	0	17.76	17.98	17.89	0	

Table 8-32

LTE Band 7 Measured P_{limit} Antenna 1 Uplink Carrier Aggregation

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	17.84	17.78

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Table 8-33
LTE Band 7 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.55	19.42	19.80	0	0
	1	50	19.80	19.74	19.96		0
	1	99	19.66	19.73	19.78		0
	50	0	19.68	19.86	19.97	0-1	0
	50	25	19.90	19.87	19.96		0
	50	50	19.69	19.85	19.91		0
	100	0	19.65	19.74	19.95		0
16QAM	1	0	19.54	19.76	19.79	0-1	0
	1	50	19.57	19.71	19.70		0
	1	99	19.58	19.78	19.73		0
	50	0	19.62	19.84	19.72	0-2	0
	50	25	19.63	19.83	19.83		0
	50	50	19.68	19.79	19.79		0
	100	0	19.58	19.70	19.75		0
64QAM	1	0	19.84	19.87	19.79	0-2	0
	1	50	19.79	19.77	19.73		0
	1	99	19.85	19.80	19.76		0
	50	0	19.85	19.87	19.87	0-3	0
	50	25	19.87	19.85	19.84		0
	50	50	19.86	19.83	19.81		0
	100	0	19.73	19.75	19.76		0
256QAM	1	0	18.54	18.44	18.46	0-5	1.4
	1	50	18.55	18.56	18.51		1.4
	1	99	18.48	18.51	18.53		1.4
	50	0	18.35	18.38	18.37		1.4
	50	25	18.46	18.44	18.42		1.4
	50	50	18.43	18.42	18.44		1.4
	100	0	18.35	18.31	18.38		1.4

Table 8-34
LTE Band 7 Measured P_{limit} Antenna 2b Uplink Carrier Aggregation

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_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	19.89	19.73

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Table 8-35
LTE Band 7 Measured P_{limit} Antenna 3 - 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	17.77	17.95	17.91	0	0
	1	50	18.01	18.06	18.03		0
	1	99	17.86	17.89	17.76		0
	50	0	17.95	18.08	18.04	0-1	0
	50	25	17.98	18.03	18.04		0
	50	50	17.97	17.99	17.98		0
	100	0	18.02	18.05	18.05		0
16QAM	1	0	17.61	17.47	17.62	0-1	0
	1	50	17.87	17.72	17.84		0
	1	99	17.72	17.59	17.65		0
	50	0	17.58	17.60	17.59	0-2	0
	50	25	17.59	17.62	17.61		0
	50	50	17.53	17.61	17.67		0
	100	0	17.65	17.65	17.67		0
64QAM	1	0	17.62	17.65	17.69	0-2	0
	1	50	17.77	17.82	17.82		0
	1	99	17.62	17.74	17.82		0
	50	0	17.59	17.62	17.61	0-3	0
	50	25	17.63	17.65	17.62		0
	50	50	17.59	17.67	17.65		0
	100	0	17.64	17.66	17.64		0
256QAM	1	0	17.71	17.67	17.58	0-5	0
	1	50	18.02	17.75	17.73		0
	1	99	17.77	17.72	17.56		0
	50	0	17.59	17.60	17.58		0
	50	25	17.63	17.64	17.63		0
	50	50	17.62	17.65	17.61		0
	100	0	17.66	17.67	17.61		0

Table 8-36
LTE Band 7 Measured P_{limit} Antenna 3 Uplink Carrier Aggregation

	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	17.49	17.91

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Table 8-37
LTE Band 7 Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.31	18.13	18.36	0	0
	1	50	18.46	18.49	18.64		0
	1	99	18.38	18.32	18.41		0
	50	0	18.46	18.49	18.56	0-1	0
	50	25	18.42	18.59	18.64		0
	50	50	18.44	18.63	18.55		0
	100	0	18.46	18.61	18.63		0
16QAM	1	0	18.46	18.44	18.29	0-1	0
	1	50	18.50	18.18	18.01		0
	1	99	18.43	18.13	18.16		0
	50	0	18.20	18.55	18.08	0-2	0
	50	25	18.03	18.28	18.05		0
	50	50	18.38	18.55	18.47		0
	100	0	18.48	18.02	18.25		0
64QAM	1	0	18.52	18.27	18.16	0-2	0
	1	50	18.58	18.58	18.26		0
	1	99	18.14	18.48	18.15		0
	50	0	18.41	18.04	18.45	0-3	0
	50	25	18.47	18.07	18.38		0
	50	50	18.06	18.53	18.48		0
	100	0	18.00	18.55	18.40		0
256QAM	1	0	18.13	18.09	18.58	0-5	0
	1	50	18.58	18.10	18.13		0
	1	99	18.29	18.22	18.38		0
	50	0	18.21	18.33	18.14		0
	50	25	18.22	18.26	18.07		0
	50	50	18.15	18.16	18.47		0
	100	0	18.06	18.23	18.45		0

Table 8-38
LTE Band 7 Measured P_{limit} Antenna 4b Uplink Carrier Aggregation

	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	18.12	18.44

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LTE Band 41

Table 8-39

LTE Band 41 PC3 Measured P_{limit} Antenna 1 - 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	19.44	19.46	19.48	19.41	19.66	0	0
	1	50	19.69	19.73	19.65	19.66	19.67		0
	1	99	19.58	19.50	19.52	19.45	19.41		0
	50	0	19.66	19.74	19.72	19.63	19.65	0-1	0
	50	25	19.69	19.77	19.76	19.67	19.68		0
	50	50	19.75	19.73	19.74	19.65	19.64		0
	100	0	19.70	19.72	19.71	19.61	19.63		0
16QAM	1	0	19.37	19.35	19.40	19.51	19.55	0-1	0
	1	50	19.66	19.67	19.56	19.52	19.46		0
	1	99	19.50	19.44	19.39	19.56	19.55		0
	50	0	19.35	19.35	19.37	19.33	19.51	0-2	0
	50	25	19.63	19.64	19.56	19.39	19.48		0
	50	50	19.50	19.39	19.38	19.49	19.35		0
	100	0	19.37	19.36	19.40	19.56	19.40		0
64QAM	1	0	19.67	19.65	19.58	19.43	19.38	0-2	0
	1	50	19.56	19.38	19.43	19.56	19.59		0
	1	99	19.34	19.39	19.39	19.41	19.52		0
	50	0	19.64	19.66	19.56	19.51	19.37	0-3	0
	50	25	19.53	19.41	19.42	19.30	19.51		0
	50	50	19.37	19.40	19.39	19.52	19.57		0
	100	0	19.66	19.69	19.61	19.43	19.37		0
256QAM	1	0	19.51	19.38	19.40	19.47	19.39	0-5	0
	1	50	19.36	19.38	19.40	19.34	19.34		0
	1	99	19.66	19.67	19.58	19.48	19.60		0
	50	0	19.50	19.40	19.42	19.49	19.32		0
	50	25	19.40	19.38	19.39	19.40	19.30		0
	50	50	19.67	19.66	19.59	19.41	19.37		0
	100	0	19.54	19.39	19.44	19.31	19.43		0

Table 8-40

LTE Band 41 PC3 Measured P_{limit} Antenna 1 Uplink Carrier Aggregation

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_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	19.90	19.66

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Table 8-41
LTE Band 41 PC2 Measured P_{limit} Antenna 1 - 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	21.01	21.09	21.02	21.30	21.56	0	0
	1	50	21.15	21.13	21.20	21.49	21.81		0
	1	99	21.12	21.11	21.13	21.41	21.31		0
	50	0	21.06	21.26	21.21	21.46	21.77	0-1	0
	50	25	21.07	21.25	21.27	21.48	21.76		0
	50	50	21.16	21.24	21.26	21.58	21.63		0
	100	0	21.12	21.19	21.18	21.53	21.72		0

Table 8-42
LTE Band 41 PC2 Measured P_{limit} Antenna 1 Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	21.62	21.56

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Table 8-43
LTE Band 41 PC3 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.39	22.46	22.35	22.46	22.59	0	0
	1	50	22.47	22.65	22.62	22.67	22.77		0
	1	99	22.46	22.36	22.47	22.61	22.60		0
	50	0	22.56	22.64	22.54	22.69	22.82	0-1	0
	50	25	22.65	22.62	22.59	22.71	22.90		0
	50	50	22.54	22.66	22.58	22.81	22.81		0
	100	0	22.58	22.51	22.53	22.66	22.72		0
16QAM	1	0	22.15	22.15	22.04	22.41	22.48	0-1	0
	1	50	22.41	22.27	22.18	22.53	22.67		0
	1	99	22.37	22.15	22.16	22.52	22.49		0
	50	0	22.21	22.37	22.23	22.43	22.51	0-2	0
	50	25	22.29	22.34	22.24	22.53	22.72		0
	50	50	22.41	22.37	22.27	22.52	22.49		0
	100	0	22.35	22.39	22.31	22.42	22.51		0
64QAM	1	0	22.15	22.29	22.13	22.53	22.72	0-2	0
	1	50	22.44	22.34	22.24	22.50	22.46		0
	1	99	22.46	22.22	22.16	22.38	22.45		0
	50	0	21.95	22.17	22.01	22.24	22.41	0-3	0.3
	50	25	22.10	22.11	22.02	22.19	22.16		0.3
	50	50	22.20	22.12	22.06	22.11	22.19		0.3
	100	0	22.13	22.16	22.08	22.28	22.40		0.3
256QAM	1	0	19.46	19.45	19.55	20.18	20.16	0-5	2.3
	1	50	19.71	19.51	19.71	20.13	20.20		2.3
	1	99	19.78	19.44	19.75	20.27	20.42		2.3
	50	0	20.00	20.19	20.04	20.17	20.19		2.3
	50	25	20.11	20.13	20.04	20.08	20.19		2.3
	50	50	20.20	20.14	20.08	20.26	20.40		2.3
	100	0	20.17	20.19	20.11	20.21	20.20		2.3

Table 8-44
LTE Band 41 PC3 Measured P_{limit} Antenna 2b Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.65	22.46

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Table 8-45
LTE Band 41 PC2 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	23.65	24.15	24.06	24.36	24.46	0	0
	1	50	24.04	24.33	24.21	24.52	24.58		0
	1	99	23.73	24.16	24.03	24.35	24.43		0
	50	0	23.86	24.11	24.02	24.20	24.34	0-1	0
	50	25	23.90	24.16	24.02	24.23	24.26		0
	50	50	23.94	24.17	24.04	24.21	24.23		0
	100	0	23.95	24.13	24.08	24.30	24.34		0

Table 8-46
LTE Band 41 PC2 Measured P_{limit} Antenna 2b Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	24.15	23.73

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Table 8-47
LTE Band 41 Measured P_{limit} Antenna 3 - 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	17.87	17.77	17.79	17.79	17.85	0	0
	1	50	18.15	18.02	18.16	18.05	18.20		0
	1	99	17.85	17.78	17.88	17.82	17.85		0
	50	0	18.15	18.06	18.10	18.14	18.19	0-1	0
	50	25	18.17	18.09	18.18	18.11	18.13		0
	50	50	18.14	18.07	18.11	18.10	18.12		0
	100	0	18.06	18.01	18.15	18.09	18.10		0
16QAM	1	0	17.77	17.68	17.71	18.02	17.80	0-1	0
	1	50	18.08	17.96	18.13	18.23	17.85		0
	1	99	17.79	17.71	17.80	17.96	17.60		0
	50	0	17.80	17.70	17.71	17.97	18.04	0-2	0
	50	25	18.08	17.94	18.12	18.00	17.95		0
	50	50	17.80	17.68	17.81	17.97	17.96		0
	100	0	17.78	17.71	17.69	18.04	18.00		0
64QAM	1	0	18.08	17.92	18.11	18.02	17.98	0-2	0
	1	50	17.74	17.73	17.77	18.15	17.97		0
	1	99	17.76	17.71	17.71	18.04	17.89		0
	50	0	18.06	17.94	18.08	17.98	18.06	0-3	0
	50	25	17.78	17.73	17.77	18.01	17.97		0
	50	50	17.75	17.73	17.71	17.99	17.97		0
	100	0	18.05	17.95	18.10	18.05	18.01		0
256QAM	1	0	17.77	17.72	17.77	18.08	18.03	0-5	0
	1	50	17.76	17.71	17.69	18.24	18.05		0
	1	99	18.10	17.95	18.13	18.07	18.00		0
	50	0	17.80	17.72	17.79	18.02	18.06		0
	50	25	17.78	17.72	17.67	18.02	17.98		0
	50	50	18.04	17.95	18.07	18.00	17.99		0
	100	0	17.74	17.73	17.77	18.06	18.01		0

Table 8-48
LTE Band 41 PC3 Measured P_{limit} Antenna 3 Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	18.00	17.79

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Table 8-49
LTE Band 41 PC2 Measured P_{limit} Antenna 3 - 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	19.80	19.65	19.43	19.78	19.76	0	0
	1	50	20.01	19.80	19.59	19.83	19.86		0
	1	99	19.89	19.61	19.48	19.83	19.78		0
	50	0	19.92	19.87	19.74	19.80	19.95	0-1	0
	50	25	19.93	19.85	19.72	19.87	19.89		0
	50	50	19.95	19.84	19.73	19.90	19.89		0
	100	0	19.93	19.91	19.79	19.76	19.84		0

Table 8-50
LTE Band 41 PC2 Measured P_{limit} Antenna 3 Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	1	0	LTE B41 PC2	20	40857	2616.7	QPSK	1	99	19.72	19.78

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Table 8-51
LTE Band 41 Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	20.55	20.41	20.38	20.42	20.77	0	0
	1	50	20.72	20.78	20.80	20.65	21.05		0
	1	99	20.41	20.48	20.60	20.51	20.65		0
	50	0	20.80	20.68	20.69	20.66	20.97	0-1	0
	50	25	20.77	20.79	20.81	20.70	21.01		0
	50	50	20.70	20.73	20.77	20.71	20.95		0
	100	0	20.74	20.74	20.78	20.78	20.98		0
16QAM	1	0	20.85	20.87	20.61	20.62	20.66	0-1	0
	1	50	21.02	21.06	20.83	20.81	20.94		0
	1	99	20.99	20.85	20.74	20.63	20.72		0
	50	0	20.83	20.96	20.81	20.89	20.54	0-2	0
	50	25	20.86	20.91	20.81	20.40	20.99		0
	50	50	20.90	20.92	20.81	20.53	20.51		0
	100	0	20.91	20.97	20.86	20.91	20.78		0
64QAM	1	0	20.81	20.81	20.69	20.67	21.00	0-2	0
	1	50	20.88	20.91	20.88	20.63	20.92		0
	1	99	20.90	20.85	20.79	20.98	20.87		0
	50	0	20.79	20.97	20.84	20.94	20.51	0-3	0
	50	25	20.82	20.92	20.82	20.72	20.64		0
	50	50	20.87	20.92	20.84	20.46	20.67		0
	100	0	20.89	20.99	20.87	20.87	20.48		0
256QAM	1	0	19.65	19.66	19.56	20.40	20.54	0-5	0.4
	1	50	19.83	19.66	19.72	20.51	20.62		0.4
	1	99	19.81	19.67	19.74	20.48	20.51		0.4
	50	0	20.11	20.22	20.09	20.59	20.45		0.4
	50	25	20.13	20.18	20.08	20.51	20.40		0.4
	50	50	20.19	20.19	20.08	20.43	20.70		0.4
	100	0	20.18	20.22	20.12	20.51	20.65		0.4

Table 8-52
LTE Band 41 PC3 Measured P_{limit} Antenna 4b Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40185	2549.5	QPSK	1	99	LTE B41	20	40383	2569.3	QPSK	1	0	20.08	20.48

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Table 8-53
LTE Band 41 PC2 Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.18	22.23	22.10	21.85	22.26	0	0
	1	50	22.34	22.23	22.16	22.20	22.69		0
	1	99	22.33	22.24	22.14	22.13	22.39		0
	50	0	22.27	22.34	22.22	22.23	22.60	0-1	0
	50	25	22.32	22.35	22.24	22.29	22.69		0
	50	50	22.31	22.33	22.22	22.36	22.68		0
	100	0	22.29	22.25	22.26	22.29	22.67		0

Table 8-54
LTE Band 41 PC2 Measured P_{limit} Antenna 4b Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	1	99	LTE B41 PC2	20	40383	2569.3	QPSK	1	0	22.27	22.24

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8.2.12

LTE Band 48

Table 8-55
LTE Band 48 Measured P_{limit} Antenna 1 - 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	18.27	18.36	18.38	17.92	0	0
	1	50	18.61	18.53	18.52	18.04		0
	1	99	18.31	18.35	18.24	17.91		0
	50	0	18.61	18.54	18.44	18.09	0-1	0
	50	25	18.68	18.57	18.47	18.11		0
	50	50	18.64	18.52	18.36	18.06		0
	100	0	18.58	18.56	18.54	18.13		0
16QAM	1	0	18.17	18.08	18.15	18.51	0-1	0
	1	50	18.47	18.42	18.51	18.08		0
	1	99	18.12	18.21	18.14	18.58		0
	50	0	18.49	18.45	18.44	18.41	0-2	0
	50	25	18.55	18.50	18.52	18.49		0
	50	50	18.52	18.51	18.50	18.18		0
	100	0	18.44	18.40	18.48	18.35		0
64QAM	1	0	18.16	18.11	18.14	17.93	0-2	0
	1	50	18.46	18.42	18.45	18.26		0
	1	99	18.11	18.05	18.11	18.41		0
	50	0	18.47	18.46	18.43	18.34	0-3	0
	50	25	18.48	18.50	18.51	18.08		0
	50	50	18.45	18.51	18.48	18.28		0
	100	0	18.42	18.40	18.38	18.26		0
256QAM	1	0	16.64	16.62	16.67	16.60	0-5	1.4
	1	50	16.60	16.65	16.63	16.68		1.4
	1	99	16.62	16.66	16.62	16.61		1.4
	50	0	16.61	16.64	16.65	16.63		1.4
	50	25	16.66	16.67	16.63	16.64		1.4
	50	50	16.65	16.61	16.64	16.65		1.4
	100	0	16.61	16.59	16.62	16.60		1.4

Table 8-56
LTE Band 48 Measured P_{limit} Antenna 1 Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	18.13	18.31

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Table 8-57
LTE Band 48 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.75	21.77	21.79	21.62	0	0
	1	50	22.14	22.02	22.01	21.80		0
	1	99	21.82	21.79	21.79	21.54		0
	50	0	22.04	22.05	21.90	21.84	0-1	0
	50	25	22.16	22.07	21.93	21.85		0
	50	50	22.12	22.06	21.91	21.82		0
	100	0	22.10	22.08	21.96	21.89		0
16QAM	1	0	22.08	21.83	21.91	21.99	0-1	0
	1	50	22.20	21.92	22.11	22.07		0
	1	99	22.04	21.84	21.88	21.87		0
	50	0	22.00	21.96	22.07	21.94	0-2	0
	50	25	22.04	21.89	22.07	21.91		0
	50	50	22.04	21.91	22.07	21.89		0
	100	0	22.10	21.96	22.12	21.96		0
64QAM	1	0	21.82	21.56	21.52	21.53	0-2	0
	1	50	21.83	21.52	21.51	21.52		0
	1	99	21.80	21.51	21.62	21.56		0
	50	0	21.72	21.48	21.58	21.48	0-3	0.9
	50	25	21.77	21.44	21.52	21.44		0.9
	50	50	21.78	21.44	21.49	21.43		0.9
	100	0	21.63	21.50	21.47	21.51		0.9
256QAM	1	0	19.40	19.33	19.48	19.49	0-5	2.9
	1	50	19.63	19.37	19.41	19.48		2.9
	1	99	19.52	19.34	19.39	19.44		2.9
	50	0	19.27	19.21	19.35	19.33		2.9
	50	25	19.16	19.18	19.24	19.24		2.9
	50	50	19.09	19.12	19.17	19.15		2.9
	100	0	19.05	19.09	19.10	19.08		2.9

Table 8-58
LTE Band 48 Measured Powers Antenna 2b Uplink Carrier Aggregation

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	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	22.16	21.82

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Table 8-59
LTE Band 48 Measured Powers Antenna 3 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.42	21.44	21.36	21.31	0	0
	1	50	21.73	21.72	21.61	21.58		0
	1	99	21.47	21.45	21.34	21.33		0
	50	0	20.94	20.70	20.70	20.55	0-1	1
	50	25	20.95	20.72	20.72	20.60		1
	50	50	20.93	20.69	20.71	20.56		1
	100	0	20.91	20.67	20.62	20.30		1
16QAM	1	0	20.32	20.34	20.30	20.28	0-1	1
	1	50	20.69	20.67	20.53	20.29		1
	1	99	20.39	20.40	20.29	20.26		1
	50	0	19.30	19.37	19.26	19.26	0-2	2
	50	25	19.71	19.65	19.57	19.28		2
	50	50	19.37	19.36	19.27	19.28		2
	100	0	19.29	19.35	19.25	19.27		2
64QAM	1	0	19.68	19.65	19.57	19.25	0-2	2
	1	50	19.42	19.36	19.25	19.24		2
	1	99	19.30	19.35	19.25	19.28		2
	50	0	18.68	18.64	18.56	18.27	0-3	3
	50	25	18.38	18.40	18.28	18.25		3
	50	50	18.32	18.40	18.27	18.29		3
	100	0	18.66	18.61	18.57	18.29		3
256QAM	1	0	16.37	16.34	16.24	16.29	0-5	5
	1	50	16.29	16.36	16.30	16.29		5
	1	99	16.70	16.63	16.57	16.30		5
	50	0	16.41	16.35	16.27	16.27		5
	50	25	16.28	16.35	16.29	16.27		5
	50	50	16.70	16.67	16.54	16.27		5
	100	0	16.40	16.40	16.29	16.26		5

Table 8-60
LTE Band 48 Measured Powers Antenna 3 Uplink Carrier Aggregation

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	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	21.27	21.47

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Table 8-61
LTE Band 48 Measured Powers Antenna 4b - 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	20.26	20.24	20.47	20.46	0	0
	1	50	20.58	20.63	20.61	20.73		0
	1	99	20.32	20.39	20.53	20.35		0
	50	0	20.50	20.60	20.64	20.65	0-1	0
	50	25	20.59	20.68	20.66	20.71		0
	50	50	20.52	20.65	20.62	20.61		0
	100	0	20.51	20.59	20.57	20.69		0
16QAM	1	0	20.65	20.65	20.30	20.38	0-1	0
	1	50	20.61	20.24	20.47	20.52		0
	1	99	20.25	20.45	20.32	20.22		0
	50	0	20.41	20.47	20.68	20.17	0-2	0
	50	25	20.17	20.20	20.53	20.63		0
	50	50	20.58	20.55	20.44	20.48		0
	100	0	20.40	20.64	20.17	20.28		0
64QAM	1	0	20.61	20.68	20.61	20.23	0-2	0
	1	50	20.21	20.66	20.21	20.67		0
	1	99	20.54	20.26	20.44	20.23		0
	50	0	20.59	20.63	20.36	20.58	0-3	0
	50	25	20.50	20.56	20.61	20.32		0
	50	50	20.18	20.34	20.32	20.59		0
	100	0	20.26	20.20	20.19	20.68		0
256QAM	1	0	20.66	20.46	20.61	20.31	0-5	0.6
	1	50	20.45	20.39	20.15	20.65		0.6
	1	99	20.27	20.66	20.64	20.50		0.6
	50	0	20.56	20.25	20.52	20.39		0.6
	50	25	20.61	20.64	20.17	20.40		0.6
	50	50	20.65	20.21	20.29	20.23		0.6
	100	0	20.62	20.39	20.50	20.60		0.6

Table 8-62
LTE Band 48 Measured Powers Antenna 4b Uplink Carrier Aggregation

	PCC							SCC						Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	20.30	20.52

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Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B, 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.

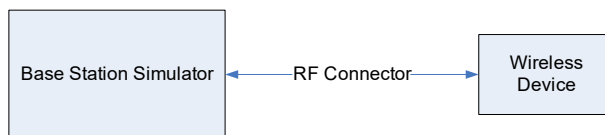


Figure 8-2
Power Measurement Setup

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8.3 NR P_{limit} Conducted Powers

Notes: Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are 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 the LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

8.3.1 NR Band n71

Table 8-63
NR Band n71 Measured P_{limit} Antenna 1 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.06	0	0.0
	1	53	23.23		0.0
	1	104	23.12		0.0
	50	0	23.03	0-1	0.3
	50	28	23.02	0	0.0
	50	56	22.94	0-1	0.3
	100	0	22.92		0.3
DFT-s-OFDM 16QAM	1	1	22.91	0-1	0.3
CP-OFDM QPSK	1	1	22.99	0-1.5	0.8

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Table 8-64
NR Band n71 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.58	0	0.0
	1	53	22.60		0.0
	1	104	22.75		0.0
	50	0	22.69	0-1	0.0
	50	28	22.66	0	0.0
	50	56	22.65	0-1	0.0
	100	0	22.64		0.0
DFT-s-OFDM 16QAM	1	1	22.74	0-1	0.0
CP-OFDM QPSK	1	1	22.97	0-1.5	0.0

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NR Band n12

Table 8-65
NR Band n12 Measured P_{limit} Antenna 1 - 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 QPSK	1	1	23.24	0	0.0
	1	40	23.40		0.0
	1	77	23.21		0.0
	36	0	23.35	0-1	0.3
	36	22	23.42	0	0.0
	36	43	23.38	0-1	0.3
	75	0	23.37		0.3
DFT-s-OFDM 16QAM	1	1	23.33	0-1	0.3
CP-OFDM QPSK	1	1	22.95	0-1.5	0.8

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Table 8-66
NR Band n12 Measured P_{limit} Antenna 3 - 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 QPSK	1	1	23.37	0	0.0
	1	40	23.47		0.0
	1	77	23.33		0.0
	36	0	23.29	0-1	0.0
	36	22	23.36	0	0.0
	36	43	23.31	0-1	0.0
	75	0	23.29		0.0
DFT-s-OFDM 16QAM	1	1	23.22	0-1	0.0
CP-OFDM QPSK	1	1	23.41	0-1.5	0.3

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NR Band n14

Table 8-67
NR Band n14 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.93	0	0.0
	1	26	23.92		0.0
	1	50	23.90		0.0
	25	0	23.68	0-1	0.3
	25	14	23.67	0	0.0
	25	27	23.64	0-1	0.3
	50	0	23.60		0.3
DFT-s-OFDM 16QAM	1	1	23.08	0-1	0.3
CP-OFDM QPSK	1	1	23.14	0-1.5	0.8

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Table 8-68
NR Band n14 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.48	0	0.0
	1	26	22.44		0.0
	1	50	22.51		0.0
	25	0	22.55	0-1	0.0
	25	14	22.54	0	0.0
	25	27	22.57	0-1	0.0
	50	0	22.50		0.0
DFT-s-OFDM 16QAM	1	1	22.46	0-1	0.0
CP-OFDM QPSK	1	1	22.42	0-1.5	0.0

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NR Band n26

Table 8-69
NR Band n26 Measured P_{limit} Antenna 1 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.86	0	0.0
	1	53	22.87		0.0
	1	104	23.02		0.0
	50	0	22.95	0-1	0.3
	50	28	22.87	0	0.0
	50	56	22.85	0-1	0.3
	100	0	22.92		0.3
DFT-s-OFDM 16QAM	1	1	22.98	0-1	0.3
CP-OFDM QPSK	1	1	23.01	0-1.5	0.8

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Table 8-70
NR Band n26 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.84	0	0.0
	1	53	22.73		0.0
	1	104	22.68		0.0
	50	0	22.89	0-1	0.0
	50	28	22.75	0	0.0
	50	56	22.79	0-1	0.0
	100	0	22.82		0.0
DFT-s-OFDM 16QAM	1	1	22.69	0-1	0.0
CP-OFDM QPSK	1	1	22.88	0-1.5	0.0

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NR Band n5

Table 8-71
NR Band n5 Measured P_{limit} Antenna 1 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.91	0	0.0
	1	53	22.81		0.0
	1	104	22.95		0.0
	50	0	22.82	0-1	0.3
	50	28	22.85	0	0.0
	50	56	22.87	0-1	0.3
	100	0	22.80		0.3
DFT-s-OFDM 16QAM	1	1	22.73	0-1	0.3
CP-OFDM QPSK	1	1	22.67	0-1.5	0.8

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Table 8-72
NR Band n5 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.78	0	0.0
	1	53	22.83		0.0
	1	104	23.05		0.0
	50	0	22.97	0-1	0.0
	50	28	22.95	0	0.0
	50	56	22.89	0-1	0.0
	100	0	22.94		0.0
DFT-s-OFDM 16QAM	1	1	22.67	0-1	0.0
CP-OFDM QPSK	1	1	22.93	0-1.5	0.0

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NR Band n70

Table 8-73
NR Band n70 Measured P_{limit} Antenna 1 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.60	0	0.0
	1	40	20.66		0.0
	1	77	20.79		0.0
	36	0	20.87	0-1	0.0
	36	22	20.65	0	0.0
	36	43	20.78	0-1	0.0
	75	0	20.70		0.0
DFT-s-OFDM 16QAM	1	1	20.50	0-1	0.0
CP-OFDM QPSK	1	1	20.68	0-1.5	0.0

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Table 8-74
NR Band n70 Measured P_{limit} Antenna 2b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.60	0	0.0
	1	40	19.53		0.0
	1	77	19.71		0.0
	36	0	19.74	0-1	0.0
	36	22	19.68	0	0.0
	36	43	19.65	0-1	0.0
	75	0	19.55		0.0
DFT-s-OFDM 16QAM	1	1	19.41	0-1	0.0
CP-OFDM QPSK	1	1	19.66	0-1.5	0.0

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Table 8-75
NR Band n70 Measured P_{limit} Antenna 3 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.86	0	0.0
	1	40	16.90		0.0
	1	77	16.78		0.0
	36	0	16.87	0-1	0.0
	36	22	16.79	0	0.0
	36	43	16.98	0-1	0.0
	75	0	16.89		0.0
DFT-s-OFDM 16QAM	1	1	16.74	0-1	0.0
CP-OFDM QPSK	1	1	16.97	0-1.5	0.0

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Table 8-76
NR Band n70 Measured P_{limit} Antenna 4b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.65	0	0.0
	1	40	17.67		0.0
	1	77	17.78		0.0
	36	0	17.73	0-1	0.0
	36	22	17.80	0	0.0
	36	43	17.92	0-1	0.0
	75	0	17.77		0.0
DFT-s-OFDM 16QAM	1	1	17.66	0-1	0.0
CP-OFDM QPSK	1	1	17.90	0-1.5	0.0

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NR Band n66

Table 8-77
NR Band n66 Measured P_{limit} Antenna 1 - 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 QPSK	1	1	20.61	0	0.0
	1	108	20.50		0.0
	1	214	20.53		0.0
	108	0	20.75	0-1	0.0
	108	54	20.44	0	0.0
	108	108	20.61	0-1	0.0
	216	0	20.48		0.0
DFT-s-OFDM 16QAM	1	1	20.51	0-1	0.0
CP-OFDM QPSK	1	1	20.84	0-1.5	0.0

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Table 8-78
NR Band n66 Measured Powers Antenna 2b - 40 MHz Bandwidth
NR Band n66
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 QPSK	1	1	19.71	0	0.0
	1	108	19.63		0.0
	1	214	19.85		0.0
	108	0	19.71	0-1	0.0
	108	54	19.66	0	0.0
	108	108	19.81	0-1	0.0
	216	0	19.68		0.0
DFT-s-OFDM 16QAM	1	1	19.61	0-1	0.0
CP-OFDM QPSK	1	1	19.78	0-1.5	0.0

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Table 8-79
NR Band n66 Measured Powers Antenna 3 - 40 MHz Bandwidth
NR Band n66
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 QPSK	1	1	16.85	0	0.0
	1	108	16.83		0.0
	1	214	16.93		0.0
	108	0	16.95	0-1	0.0
	108	54	16.98	0	0.0
	108	108	16.97	0-1	0.0
	216	0	16.92		0.0
DFT-s-OFDM 16QAM	1	1	16.80	0-1	0.0
CP-OFDM QPSK	1	1	16.89	0-1.5	0.0

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Table 8-80
NR Band n66 Measured Powers Antenna 4b - 40 MHz Bandwidth
NR Band n66
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 QPSK	1	1	17.67	0	0.0
	1	108	17.69		0.0
	1	214	17.61		0.0
	108	0	17.56	0-1	0.0
	108	54	17.52	0	0.0
	108	108	17.71	0-1	0.0
	216	0	17.55		0.0
DFT-s-OFDM 16QAM	1	1	17.69	0-1	0.0
CP-OFDM QPSK	1	1	17.62	0-1.5	0.0

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NR Band n25

Table 8-81
NR Band n25 Measured P_{limit} Antenna 1 - 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 QPSK	1	1	17.80	0	0.0
	1	108	17.47		0.0
	1	214	17.57		0.0
	108	0	17.68	0-1	0.0
	108	54	17.56	0	0.0
	108	108	17.52	0-1	0.0
	216	0	17.59		0.0
DFT-s-OFDM 16QAM	1	1	17.50	0-1	0.0
CP-OFDM QPSK	1	1	17.57	0-1.5	0.0

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Table 8-82
NR Band n25 Measured Powers Antenna 2b - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.07	0	0.0
	1	108	19.96		0.0
	1	214	20.22		0.0
	108	0	20.13	0-1	0.0
	108	54	20.12	0	0.0
	108	108	20.05	0-1	0.0
	216	0	20.12		0.0
DFT-s-OFDM 16QAM	1	1	20.01	0-1	0.0
CP-OFDM QPSK	1	1	20.24	0-1.5	0.0

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Table 8-83
NR Band n25 Measured Powers Antenna 3 - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.55	0	0.0
	1	108	17.65		0.0
	1	214	17.50		0.0
	108	0	17.69	0-1	0.0
	108	54	17.75	0	0.0
	108	108	17.70	0-1	0.0
	216	0	17.55		0.0
DFT-s-OFDM 16QAM	1	1	17.35	0-1	0.0
CP-OFDM QPSK	1	1	17.60	0-1.5	0.0

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Table 8-84
NR Band n25 Measured Powers Antenna 4b - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.18	0	0.0
	1	108	19.07		0.0
	1	214	18.90		0.0
	108	0	19.19	0-1	0.0
	108	54	19.06	0	0.0
	108	108	18.93	0-1	0.0
	216	0	19.15		0.0
DFT-s-OFDM 16QAM	1	1	19.06	0-1	0.0
CP-OFDM QPSK	1	1	19.29	0-1.5	0.0

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NR Band n30

Table 8-85
NR Band n30 Measured P_{limit} Antenna 1 - 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 QPSK	1	1	19.65	0	0.0
	1	26	19.88		0.0
	1	50	19.67		0.0
	25	0	19.75	0-1	0.0
	25	14	19.84	0	0.0
	25	27	19.81	0-1	0.0
	50	0	19.78		0.0
DFT-s-OFDM 16QAM	1	1	19.61	0-1	0.0
CP-OFDM QPSK	1	1	19.85	0-1.5	0.0

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Table 8-86
NR Band n30 Measured P_{limit} Antenna 2b - 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 QPSK	1	1	19.36	0	0.0
	1	26	19.41		0.0
	1	50	19.33		0.0
	25	0	19.37	0-1	0.0
	25	14	19.43	0	0.0
	25	27	19.34	0-1	0.0
	50	0	19.39		0.0
DFT-s-OFDM 16QAM	1	1	19.30	0-1	0.0
CP-OFDM QPSK	1	1	19.52	0-1.5	0.0

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Table 8-87
NR Band n30 Measured P_{limit} Antenna 3 - 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 QPSK	1	1	17.27	0	0.0
	1	26	17.24		0.0
	1	50	17.20		0.0
	25	0	17.29	0-1	0.0
	25	14	17.25	0	0.0
	25	27	17.23	0-1	0.0
	50	0	17.25		0.0
DFT-s-OFDM 16QAM	1	1	17.16	0-1	0.0
CP-OFDM QPSK	1	1	17.33	0-1.5	0.0

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Table 8-88
NR Band n30 Measured P_{limit} Antenna 4b - 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 QPSK	1	1	18.61	0	0.0
	1	26	18.42		0.0
	1	50	18.59		0.0
	25	0	18.58	0-1	0.0
	25	14	18.55	0	0.0
	25	27	18.48	0-1	0.0
	50	0	18.56		0.0
DFT-s-OFDM 16QAM	1	1	18.32	0-1	0.0
CP-OFDM QPSK	1	1	18.54	0-1.5	0.0

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NR Band n7

Table 8-89
NR Band n7 Measured P_{limit} Antenna 1 - 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 QPSK	1	1	17.42	0	0.0
	1	108	17.45		0.0
	1	214	17.57		0.0
	108	0	17.49	0-1	0.0
	108	54	17.57	0	0.0
	108	108	17.70	0-1	0.0
	216	0	17.56		0.0
DFT-s-OFDM 16QAM	1	1	17.31	0-1	0.0
CP-OFDM QPSK	1	1	17.74	0-1.5	0.0

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Table 8-90
NR Band n7 Measured P_{limit} Antenna 2b - 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 QPSK	1	1	19.69	0	0.0
	1	108	19.63		0.0
	1	214	19.75		0.0
	108	0	19.80	0-1	0.0
	108	54	19.70	0	0.0
	108	108	19.83	0-1	0.0
	216	0	19.74		0.0
DFT-s-OFDM 16QAM	1	1	19.69	0-1	0.0
CP-OFDM QPSK	1	1	19.92	0-1.5	0.0

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Table 8-91
NR Band n7 Measured P_{limit} Antenna 3 - 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 QPSK	1	1	18.02	0	0.0
	1	108	17.78		0.0
	1	214	18.12		0.0
	108	0	18.12	0-1	0.0
	108	54	18.05	0	0.0
	108	108	18.19	0-1	0.0
	216	0	18.06		0.0
DFT-s-OFDM 16QAM	1	1	17.91	0-1	0.0
CP-OFDM QPSK	1	1	18.15	0-1.5	0.0

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Table 8-92
NR Band n7 Measured P_{limit} Antenna 4b - 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 QPSK	1	1	18.37	0	0.0
	1	108	18.36		0.0
	1	214	18.43		0.0
	108	0	18.49	0-1	0.0
	108	54	18.41	0	0.0
	108	108	18.50	0-1	0.0
	216	0	18.40		0.0
DFT-s-OFDM 16QAM	1	1	18.20	0-1	0.0
CP-OFDM QPSK	1	1	18.52	0-1.5	0.0

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NR Band n41

Table 8-93
NR Band n41 Measured P_{limit} Antenna 1 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz)	528000 (2640 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	17.35	17.49	0	0.0
	1	137	17.73	17.83		0.0
	1	271	17.36	17.55		0.0
	135	0	17.63	17.80	0-1	0.0
	135	69	17.70	17.73	0	0.0
	135	138	17.73	17.88	0-1	0.0
	270	0	17.71	17.76		0.0
DFT-s-OFDM 16QAM	1	1	17.23	17.28	0-1	0.0
CP-OFDM QPSK	1	1	17.46	17.50	0-1.5	0.0

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Table 8-94
NR Band n41 Measured P_{limit} Antenna 2b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz)	528000 (2640 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	20.43	20.36	0	0.0
	1	137	20.77	20.71		0.0
	1	271	20.40	20.32		0.0
	135	0	20.64	20.60	0-1	0.0
	135	69	20.71	20.54	0	0.0
	135	138	20.83	20.53	0-1	0.0
	270	0	20.76	20.58		0.0
DFT-s-OFDM 16QAM	1	1	20.44	20.27	0-1	0.0
CP-OFDM QPSK	1	1	20.57	20.34	0-1.5	0.0

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Table 8-95
NR Band n41 Measured P_{limit} Antenna 3 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz)	528000 (2640 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	15.91	15.70	0	0.0
	1	137	16.10	15.86		0.0
	1	271	16.14	15.63		0.0
	135	0	16.23	15.54	0-1	0.0
	135	69	16.22	15.85	0	0.0
	135	138	16.07	15.57	0-1	0.0
	270	0	16.03	15.84		0.0
DFT-s-OFDM 16QAM	1	1	15.81	15.55	0-1	0.0
CP-OFDM QPSK	1	1	15.64	15.69	0-1.5	0.0

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Table 8-96
NR Band n41 Measured P_{limit} Antenna 4b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz)	528000 (2640 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	18.94	18.80	0	0.0
	1	137	18.73	18.92		0.0
	1	271	18.79	18.90		0.0
	135	0	19.05	18.82	0-1	0.0
	135	69	18.89	18.88	0	0.0
	135	138	19.01	18.91	0-1	0.0
	270	0	18.93	18.89		0.0
DFT-s-OFDM 16QAM	1	1	18.70	18.72	0-1	0.0
CP-OFDM QPSK	1	1	18.92	18.99	0-1.5	0.0

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NR Band n48

Table 8-97
NR Band n48 Measured P_{limit} Antenna 1 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	16.17	16.25	15.95	0	0.0
	1	53	16.27	16.10	15.92		0.0
	1	104	16.24	16.09	15.91		0.0
	50	0	16.25	16.22	16.03	0-1	0.0
	50	28	16.29	16.23	16.01	0	0.0
	50	56	16.37	16.28	15.98	0-1	0.0
	100	0	16.21	16.26	16.00		0.0
DFT-s-OFDM 16QAM	1	1	16.05	16.08	15.95	0-1	0.0
CP-OFDM QPSK	1	1	16.35	16.36	15.94	0-1.5	0.0

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Table 8-98
NR Band n48 Measured P_{limit} Antenna 2b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.90	19.91	19.77	0	0.0
	1	53	19.98	20.03	19.73		0.0
	1	104	19.97	19.95	19.72		0.0
	50	0	19.94	19.90	19.80	0-1	0.0
	50	28	20.04	20.05	19.72	0	0.0
	50	56	19.96	19.91	19.78	0-1	0.0
	100	0	19.99	20.02	19.84		0.0
DFT-s-OFDM 16QAM	1	1	19.86	19.92	19.75	0-1	0.0
CP-OFDM QPSK	1	1	19.95	20.10	19.85	0-1.5	0.0

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Table 8-99
NR Band n48 Measured P_{limit} Antenna 3 - 40 MHz Bandwidth
NR Band n48
40 MHz Bandwidth

			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.35	19.31	19.29	0	0.0
	1	53	19.25	19.22	19.17		0.0
	1	104	19.27	19.24	19.20		0.0
	50	0	19.47	19.46	19.33	0-1	0.0
	50	28	19.35	19.32	19.37	0	0.0
	50	56	19.34	19.26	19.32	0-1	0.0
	100	0	19.24	19.28	19.27		0.0
DFT-s-OFDM 16QAM	1	1	19.32	19.36	19.35	0-1	0.0
CP-OFDM QPSK	1	1	19.57	19.45	19.48	0-1.5	0.0

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Table 8-100
NR Band n48 Measured P_{limit} Antenna 4b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	18.76	19.00	18.97	0	0.0
	1	53	19.07	18.92	19.02		0.0
	1	104	19.00	18.83	18.74		0.0
	50	0	18.77	18.91	18.84	0-1	0.0
	50	28	18.95	18.80	18.81	0	0.0
	50	56	19.01	18.96	18.77	0-1	0.0
	100	0	18.88	18.99	18.96		0.0
DFT-s-OFDM 16QAM	1	1	18.78	18.97	19.03	0-1	0.0
CP-OFDM QPSK	1	1	19.03	19.11	19.09	0-1.5	0.0

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NR Band n77 DoD

Table 8-101

NR Band n77 DoD Measured P_{limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 DoD 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 QPSK	1	1	20.45	0	0.0
	1	137	20.63		0.0
	1	271	20.62		0.0
	135	0	20.85	0-1	0.0
	135	69	20.83	0	0.0
	135	138	20.79	0-1	0.0
	270	0	20.61		0.0
DFT-s-OFDM 16QAM	1	1	20.76	0-1	0.0
CP-OFDM QPSK	1	1	20.71	0-1.5	0.0

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Table 8-102
NR Band n77 DoD Measured P_{limit} Antenna 2b - 100 MHz Bandwidth
NR Band n77 DoD
100 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.57	0	0.0
	1	137	19.04		0.0
	1	271	18.54		0.0
	135	0	19.11	0-1	0.0
	135	69	18.96	0	0.0
	135	138	18.84	0-1	0.0
	270	0	18.95		0.0
DFT-s-OFDM 16QAM	1	1	18.86	0-1	0.0
CP-OFDM QPSK	1	1	19.05	0-1.5	0.0

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Table 8-103
NR Band n77 DoD Measured P_{limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 DoD 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 QPSK	1	1	17.29	0	0.0
	1	137	17.36		0.0
	1	271	17.31		0.0
	135	0	17.46	0-1	0.0
	135	69	17.51	0	0.0
	135	138	17.34	0-1	0.0
	270	0	17.33		0.0
DFT-s-OFDM 16QAM	1	1	17.28	0-1	0.0
CP-OFDM QPSK	1	1	17.36	0-1.5	0.0

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Table 8-104
NR Band n77 DoD Measured P_{limit} Antenna 4b - 100 MHz Bandwidth
NR Band n77 DoD
100 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.95	0	0.0
	1	137	17.35		0.0
	1	271	16.84		0.0
	135	0	17.19	0-1	0.0
	135	69	17.02	0	0.0
	135	138	17.04	0-1	0.0
	270	0	17.16		0.0
DFT-s-OFDM 16QAM	1	1	16.55	0-1	0.0
CP-OFDM QPSK	1	1	17.27	0-1.5	0.0

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NR Band n77

Table 8-105

NR Band n77 Measured P_{limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	19.71	19.16	0	0.0
	1	137	19.96	18.92		0.0
	1	271	19.56	18.81		0.0
	135	0	20.01	19.17	0-1	0.0
	135	69	19.93	19.04	0	0.0
	135	138	19.89	19.02	0-1	0.0
	270	0	19.95	19.15		0.0
DFT-s-OFDM 16QAM	1	1	19.76	18.81	0-1	0.0
CP-OFDM QPSK	1	1	19.89	19.10	0-1.5	0.0

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Table 8-106
NR Band n77 Measured P_{limit} Antenna 2b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	19.71	18.93	0	0.0
	1	137	20.16	19.34		0.0
	1	271	19.89	18.95		0.0
	135	0	20.19	19.31	0-1	0.0
	135	69	20.14	19.32	0	0.0
	135	138	20.12	19.35	0-1	0.0
	270	0	20.11	19.49		0.0
DFT-s-OFDM 16QAM	1	1	19.95	18.82	0-1	0.0
CP-OFDM QPSK	1	1	20.10	19.10	0-1.5	0.0

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Table 8-107
NR Band n77 Measured P_{limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	18.60	18.06	0	0.0
	1	137	18.89	18.05		0.0
	1	271	18.71	17.91		0.0
	135	0	18.88	18.01	0-1	0.0
	135	69	18.85	17.98	0	0.0
	135	138	18.90	17.95	0-1	0.0
	270	0	18.88	18.00		0.0
DFT-s-OFDM 16QAM	1	1	18.46	17.89	0-1	0.0
CP-OFDM QPSK	1	1	18.64	17.96	0-1.5	0.0

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Table 8-108
NR Band n77 Measured P_{limit} Antenna 4b - 100 MHz Bandwidth
NR Band n77
100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	17.60	17.67	0	0.0
	1	137	18.00	17.55		0.0
	1	271	17.55	17.50		0.0
	135	0	18.00	17.70	0-1	0.0
	135	69	18.01	17.60	0	0.0
	135	138	17.86	17.56	0-1	0.0
	270	0	17.99	17.65		0.0
DFT-s-OFDM 16QAM	1	1	17.52	17.43	0-1	0.0
CP-OFDM QPSK	1	1	17.73	17.70	0-1.5	0.0

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

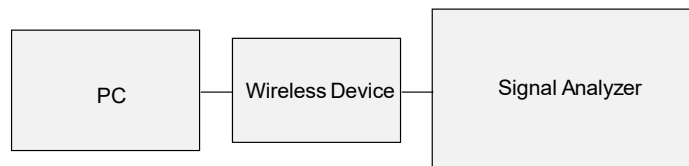


Figure 8-3
Power Measurement Setup

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8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-109
2.4 GHz WLAN Maximum Average RF Power – Antenna 2a

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	18.55
2437	6	18.43
2462	11	18.46
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.77
2437	6	18.36
2462	11	15.57
2.4GHz WIFI (20MHz 802.11n SISO ANT 2a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.72
2437	6	18.35
2462	11	15.52
2.4GHz WIFI (20MHz 802.11ac SISO ANT 2a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.64
2437	6	18.75
2462	11	15.47
2.4GHz WIFI (20MHz 802.11ax SISO ANT 2a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.52
2437	6	18.54
2462	11	15.21

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Table 8-110
2.4 GHz WLAN Maximum Average RF Power – Antenna 4a

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	17.89
2437	6	17.88
2462	11	17.84
2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.01
2437	6	18.03
2462	11	15.96
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.97
2437	6	18.02
2462	11	16.02
2.4GHz WIFI (20MHz 802.11ac SISO ANT 4a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.80
2437	6	17.78
2462	11	15.89
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.71
2437	6	17.71
2462	11	14.73

8.5 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-111
2.4 GHz WLAN Reduced Average RF Power – Antenna 2a

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.78
2437	6	15.74
2462	11	15.80

Table 8-112
2.4 GHz WLAN Reduced Average RF Power – Antenna 4a

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.93
2437	6	14.99
2462	11	15.07

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8.6 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-113
5 GHz WLAN Maximum Average RF Power – Antenna 2a

5GHz WIFI (40MHz 802.11n SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.43
	5230	46	16.85
UNII-2A	5270	54	17.35
	5310	62	15.08
UNII-3	5755	151	17.03
	5795	159	17.12
5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.33
	5610	122	17.46
	5690	138	17.49

5GHz WIFI (40MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.58
	5230	46	17.26
UNII-2A	5270	54	17.41
	5310	62	15.32
UNII-3	5755	151	17.82
	5795	159	17.63
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.00
	5610	122	17.41
	5690	138	17.56

5GHz WIFI (40MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.67
	5230	46	17.29
UNII-2A	5270	54	17.47
	5310	62	15.40
UNII-3	5755	151	17.86
	5795	159	17.75

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Table 8-114
5 GHz WLAN Maximum Average RF Power – Antenna 4a

5GHz WIFI (40MHz 802.11n SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.67
	5230	46	18.12
UNII-2A	5270	54	18.65
	5310	62	15.91
5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.49
	5610	122	15.60
	5690	138	15.68
UNII-3	5775	155	16.31

5GHz WIFI (40MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.88
	5230	46	18.36
UNII-2A	5270	54	18.67
	5310	62	16.04
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.85
	5610	122	15.53
	5690	138	15.63
UNII-3	5775	155	16.12

5GHz WIFI (40MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.88
	5230	46	18.38
UNII-2A	5270	54	18.66
	5310	62	15.55

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Table 8-115
5 GHz WLAN Maximum Average RF Power – Antenna WF5B

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.54
	5230	46	18.10
UNII-2A	5270	54	17.57
	5310	62	15.05
UNII-3	5755	151	17.30
	5795	159	17.37

5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.29
	5610	122	17.66
	5690	138	17.45

5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.95
	5230	46	18.22
UNII-2A	5270	54	17.80
	5310	62	15.30
UNII-3	5755	151	17.55
	5795	159	17.34

5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.50
	5610	122	17.79
	5690	138	17.78

5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.97
	5230	46	18.22
UNII-2A	5270	54	17.82
	5310	62	14.81
UNII-3	5755	151	18.15
	5795	159	17.40

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8.7 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-116
5 GHz WLAN Reduced Average RF Power – Antenna 2a

5GHz WIFI (40MHz 802.11n SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.13
	5230	46	13.68
UNII-2A	5270	54	14.19
	5310	62	12.43
UNII-3	5755	151	14.88
	5795	159	14.92
5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.32
	5610	122	13.45
	5690	138	12.89

Table 8-117
5 GHz WLAN Reduced Average RF Power – Antenna 4a

5GHz WIFI (40MHz 802.11n SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.81
	5230	46	15.35
UNII-2A	5270	54	14.76
	5310	62	12.09
5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	11.93
	5610	122	11.91
	5690	138	12.35
UNII-3	5775	155	12.71

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8.8 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-118
6 GHz WLAN Maximum Average RF Power – Antenna 2a

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.82
	6345	79	13.35
UNII-6	6505	111	13.56
UNII-7	6665	143	11.35
UNII-8	6985	207	13.61

Table 8-119
6 GHz WLAN Maximum Average RF Power – Antenna 4a

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.96
	6345	79	13.34
UNII-6	6505	111	12.53
UNII-7	6665	143	13.75
UNII-8	6985	207	14.28

Table 8-120
6 GHz WLAN Maximum Average RF Power – Antenna WF5B

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.12
	6345	79	13.66
UNII-6	6505	111	13.08
UNII-7	6665	143	12.75
UNII-8	6985	207	12.93

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8.9 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.

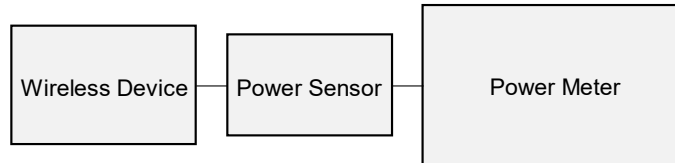


Figure 8-4
Power Measurement Setup

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8.10 Bluetooth Maximum Conducted Powers

Table 8-121
Bluetooth Average RF Power – Antenna 2a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	17.47	55.847
2441	GFSK	1.0	39	17.13	51.642
2480	GFSK	1.0	78	17.57	57.148

Table 8-122
Bluetooth Average RF Power – Antenna 4a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.93	49.317
2441	GFSK	1.0	39	16.68	46.559
2480	GFSK	1.0	78	16.87	48.641

8.11 Bluetooth Reduced Conducted Powers

Table 8-123
Bluetooth Reduced Average RF Power – Antenna 2a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.09	40.644
2441	GFSK	1.0	39	16.05	40.272
2480	GFSK	1.0	78	16.10	40.738

Table 8-124
Bluetooth Reduced Average RF Power – Antenna 4a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.03	40.087
2441	GFSK	1.0	39	15.78	37.844
2480	GFSK	1.0	78	15.90	38.905

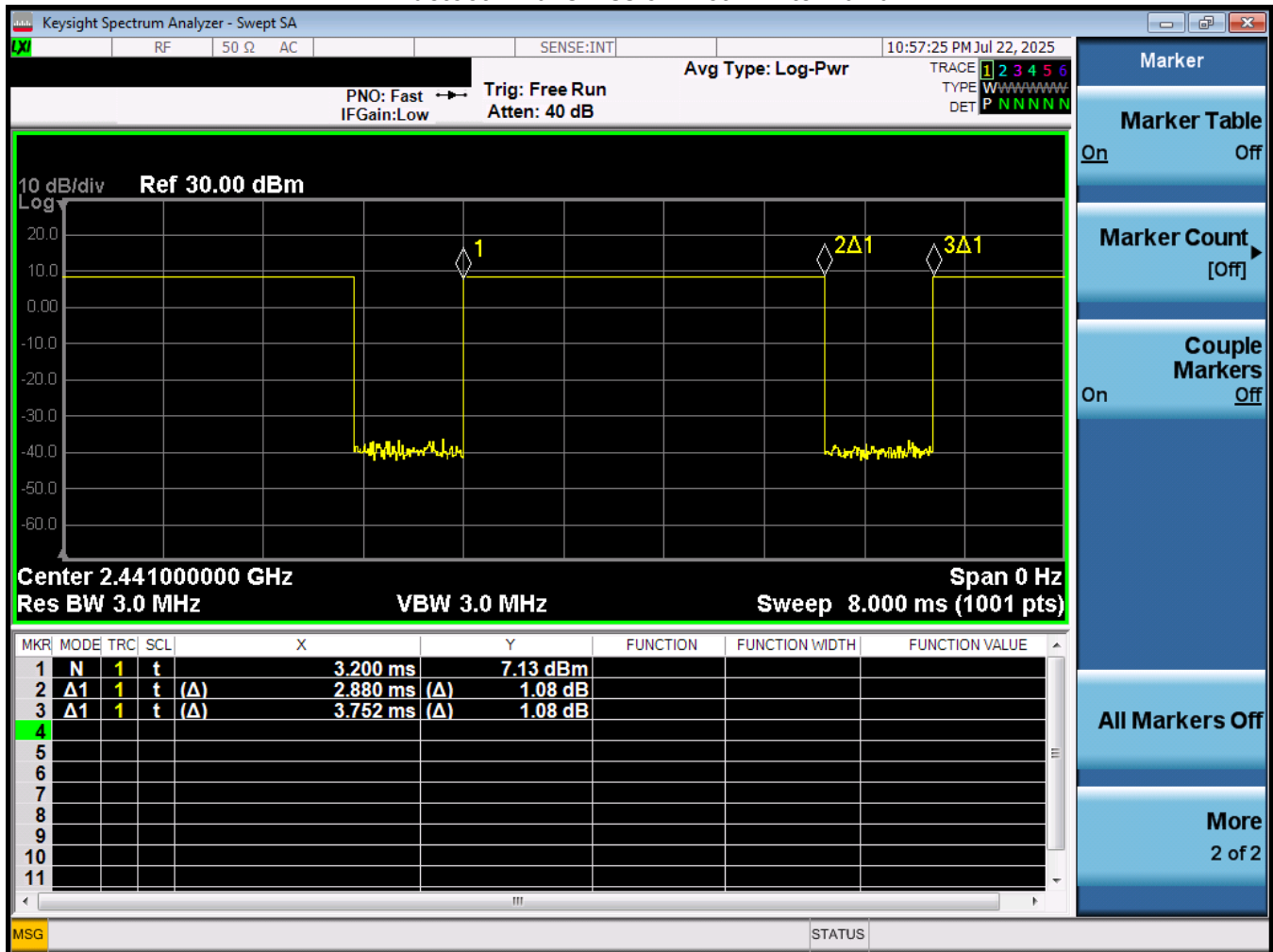
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8.12 Bluetooth Duty Cycle Plots

Figure 8-5
Bluetooth Transmission Plot – Antenna 2a



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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.76\%$$

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Figure 8-6



Equation 8-2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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8.13 802.15.4 Maximum Conducted Powers

Table 8-125
802.15.4 Average RF Power – Antenna 2a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	17.75	59.566
2440	O-QPSK	1.0	18	17.74	59.429
2475	O-QPSK	1.0	25	17.83	60.674

Table 8-126
802.15.4 Average RF Power – Antenna 4a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	17.57	57.148
2440	O-QPSK	1.0	18	17.61	57.677
2475	O-QPSK	1.0	25	17.60	57.544

8.14 802.15.4 Reduced Conducted Powers

Table 8-127
802.15.4 Reduced Average RF Power – Antenna 2a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	16.15	41.210
2440	O-QPSK	1.0	18	16.06	40.365
2475	O-QPSK	1.0	25	16.21	41.783

Table 8-128
802.15.4 Reduced Average RF Power – Antenna 4a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	15.51	35.563
2440	O-QPSK	1.0	18	15.63	36.559
2475	O-QPSK	1.0	25	15.52	35.645

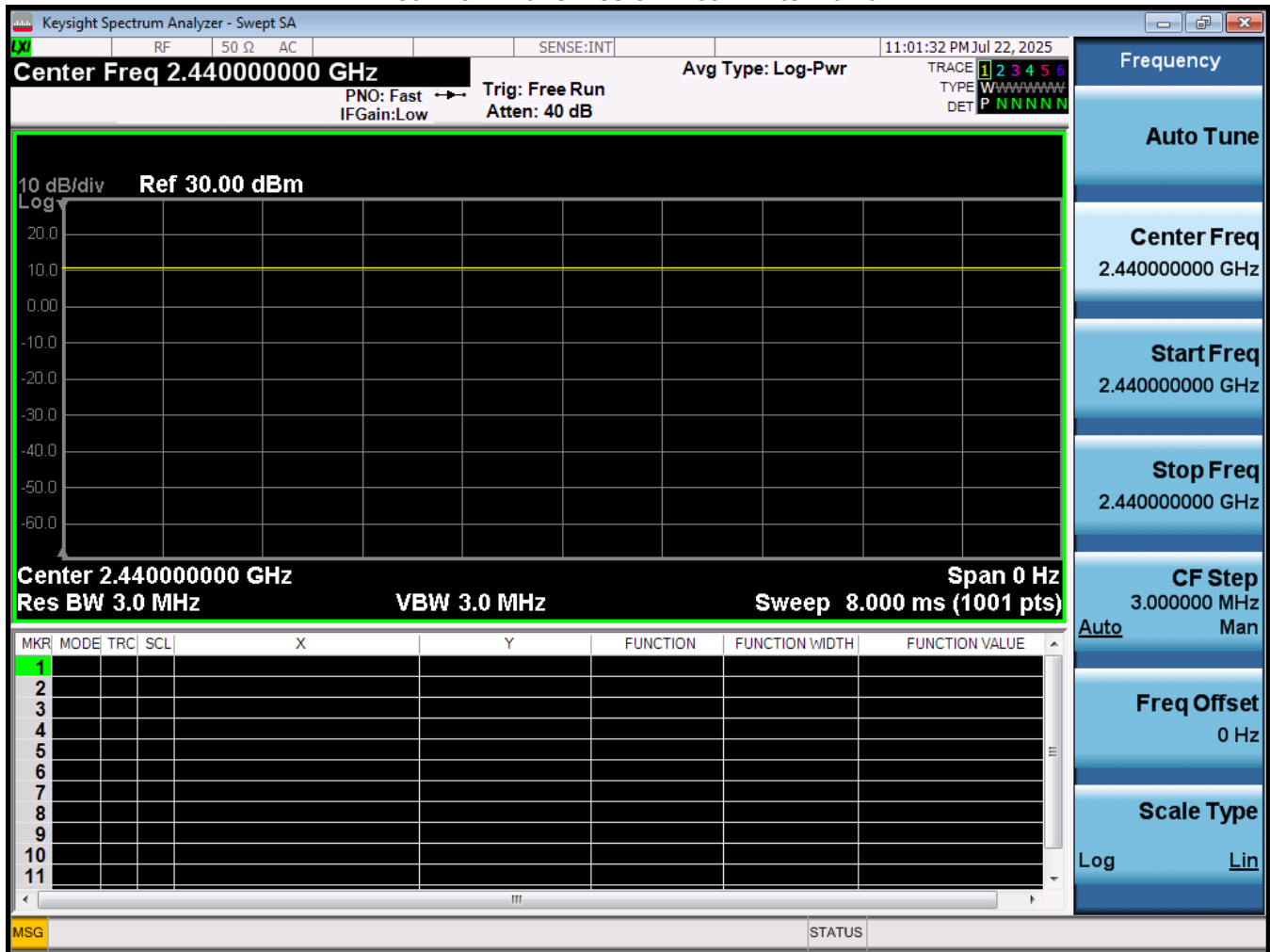
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8.15 802.15.4 Duty Cycle Plots

Figure 8-7
802.15.4 Transmission Plot – Antenna 2a



Equation 8-3
802.15.4 Duty Cycle Calculation – Antenna 2a

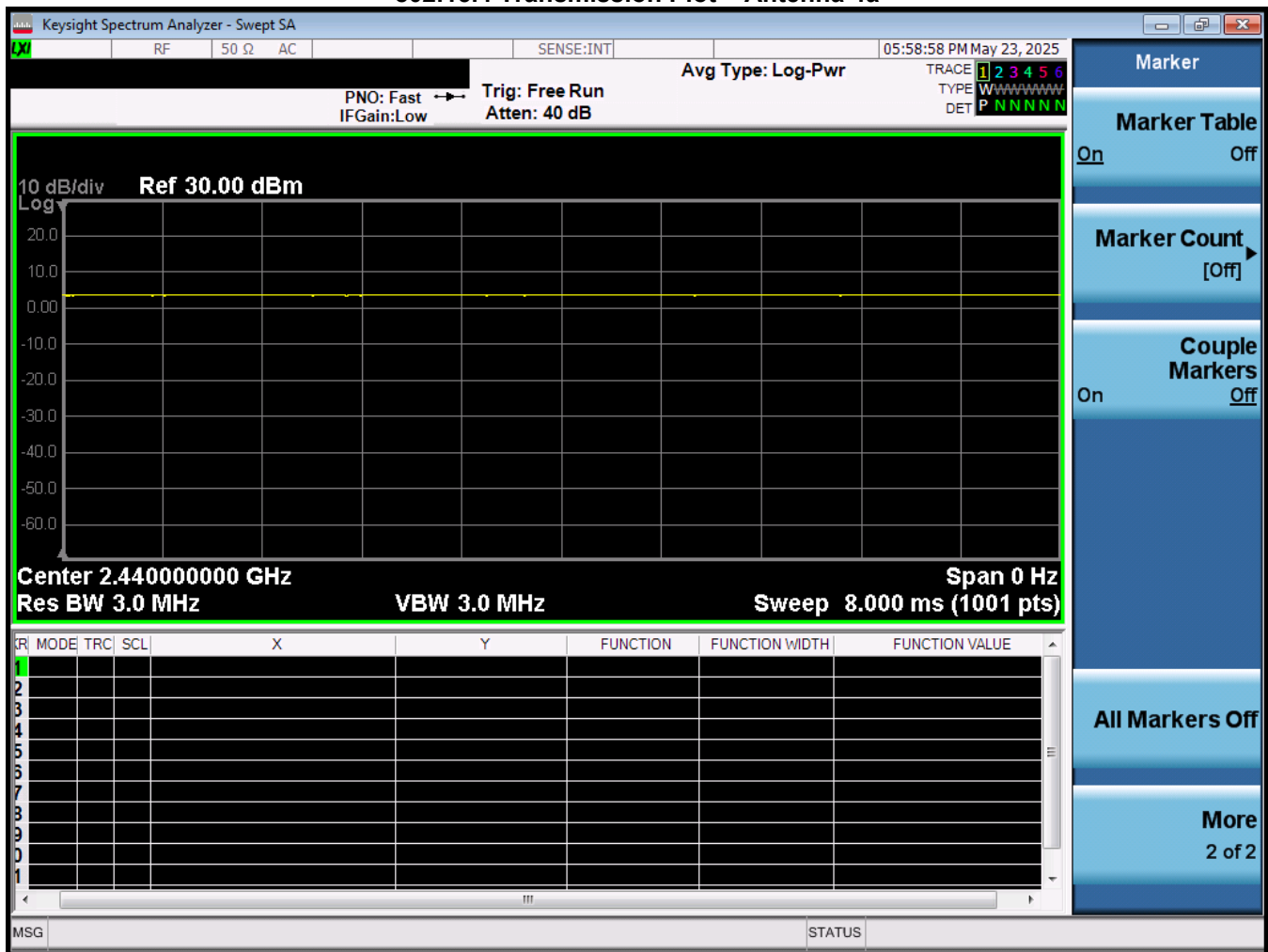
$$\text{Duty Cycle} = 100\%$$

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Figure 8-8
802.15.4 Transmission Plot – Antenna 4a



Equation 8-4
802.15.4 Duty Cycle Calculation – Antenna 4a

$$\text{Duty Cycle} = 100\%$$

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8.16 Notes for Bluetooth/802.15.4

- Full power measurements were performed per FCC KDB Procedures 248227.

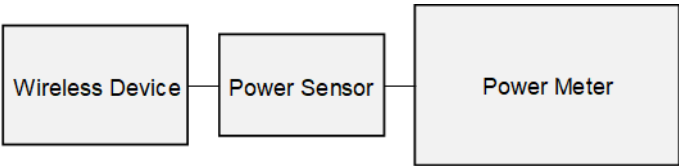


Figure 8-9
Power Measurement Setup

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8.17 NB UNII Maximum Conducted Powers

Table 8-129
NB UNII 1 Average RF Power – Antenna 2a

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	11.9
		5204	12.02
		5245	12.01

Table 8-130
NB UNII 1 Average RF Power – Antenna 4a

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	12.6
		5204	12.49
		5245	12.52

Table 8-131
NB UNII 1 Average RF Power – Antenna WF5B

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	11.6
		5204	11.81
		5245	12.03

Table 8-132
NB UNII 3 Average RF Power – Antenna 2a

Type	Band	Frequency	Average
BDR	U-NII 3	5733	16.77
		5789	17.01
		5844	16.79

Table 8-133
NB UNII 3 Average RF Power – Antenna 4a

Type	Band	Frequency	Average
BDR	U-NII 3	5733	15.78
		5789	15.91
		5844	15.99

Table 8-134
NB UNII 3 Average RF Power – Antenna WF5B

Type	Band	Frequency	Average
BDR	U-NII 3	5733	17.6
		5789	17.52
		5844	17.65

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Table 8-135
NB UNII 5 Average RF Power – Antenna 2a

Type	Band	Frequency	Average
HDRPL8	U-NII 5	6109	0.15
		6186	0.48
		6263	0.02
		6340	-0.52
		6417	-1.22

Table 8-136
NB UNII 5 Average RF Power – Antenna 4a

Type	Band	Frequency	Average
HDRPL8	U-NII 5	6109	1.55
		6186	1.85
		6263	1.56
		6340	1.49
		6417	1.07

Table 8-137
NB UNII 5 Average RF Power – Antenna WF5B

Type	Band	Frequency	Average
HDRPL8	U-NII 5	6109	-0.71
		6186	-0.39
		6263	-0.85
		6340	-1.46
		6417	-1.93

8.18 NB UNII Reduced Conducted Powers

Table 8-138
NB UNII 3 Reduced Average RF Power – Antenna 2a

Type	Band	Frequency	Average
BDR	U-NII 3	5733	13.83
		5789	14.15
		5844	14.14

Table 8-139
NB UNII 3 Reduced Average RF Power – Antenna 4a

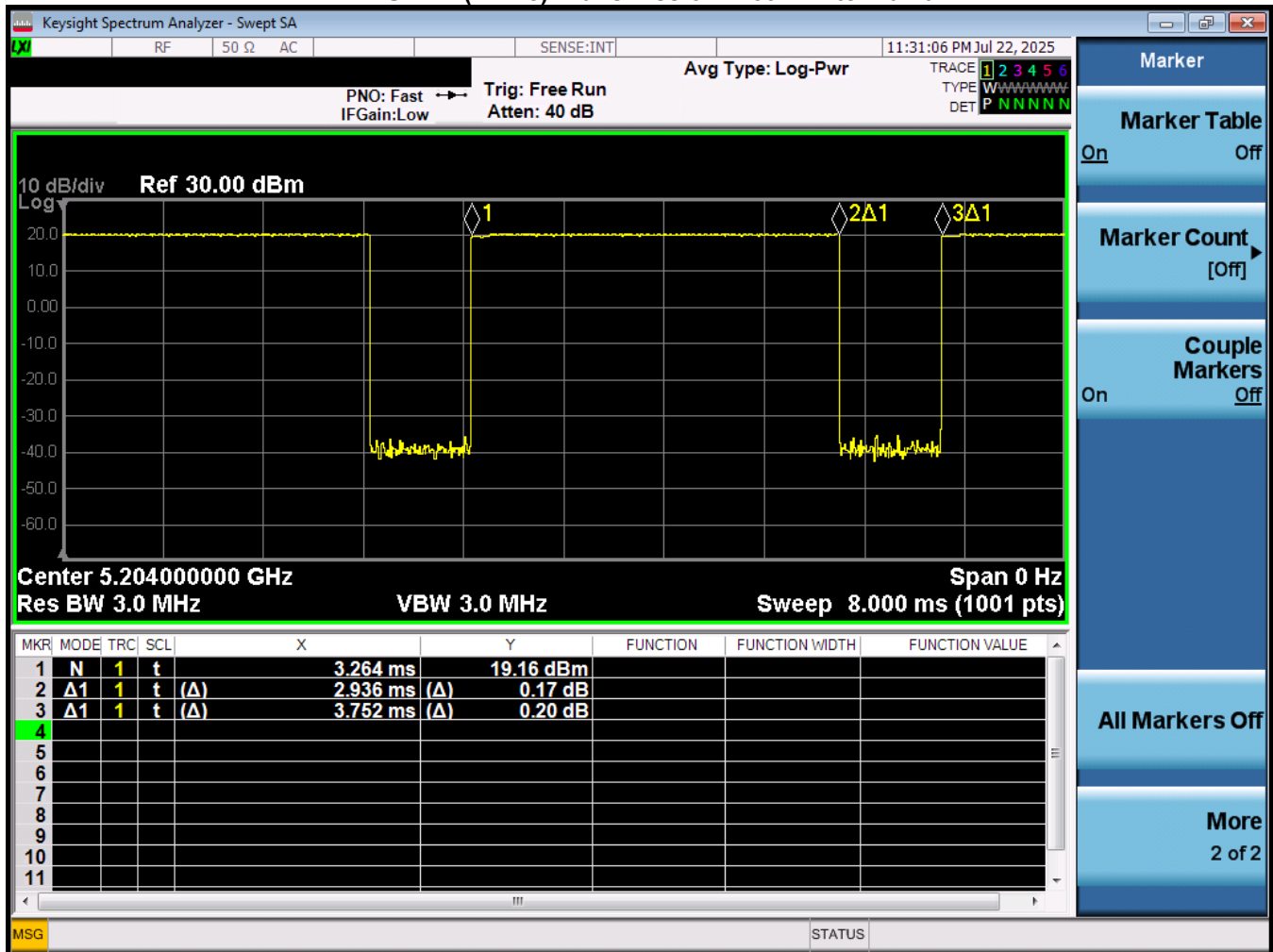
Type	Band	Frequency	Average
BDR	U-NII 3	5733	13.28
		5789	13.30
		5844	13.26

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8.19 NB UNII Duty Cycle Plots

Figure 8-10
NB UNII 1 (HDR8) Transmission Plot – Antenna 2a



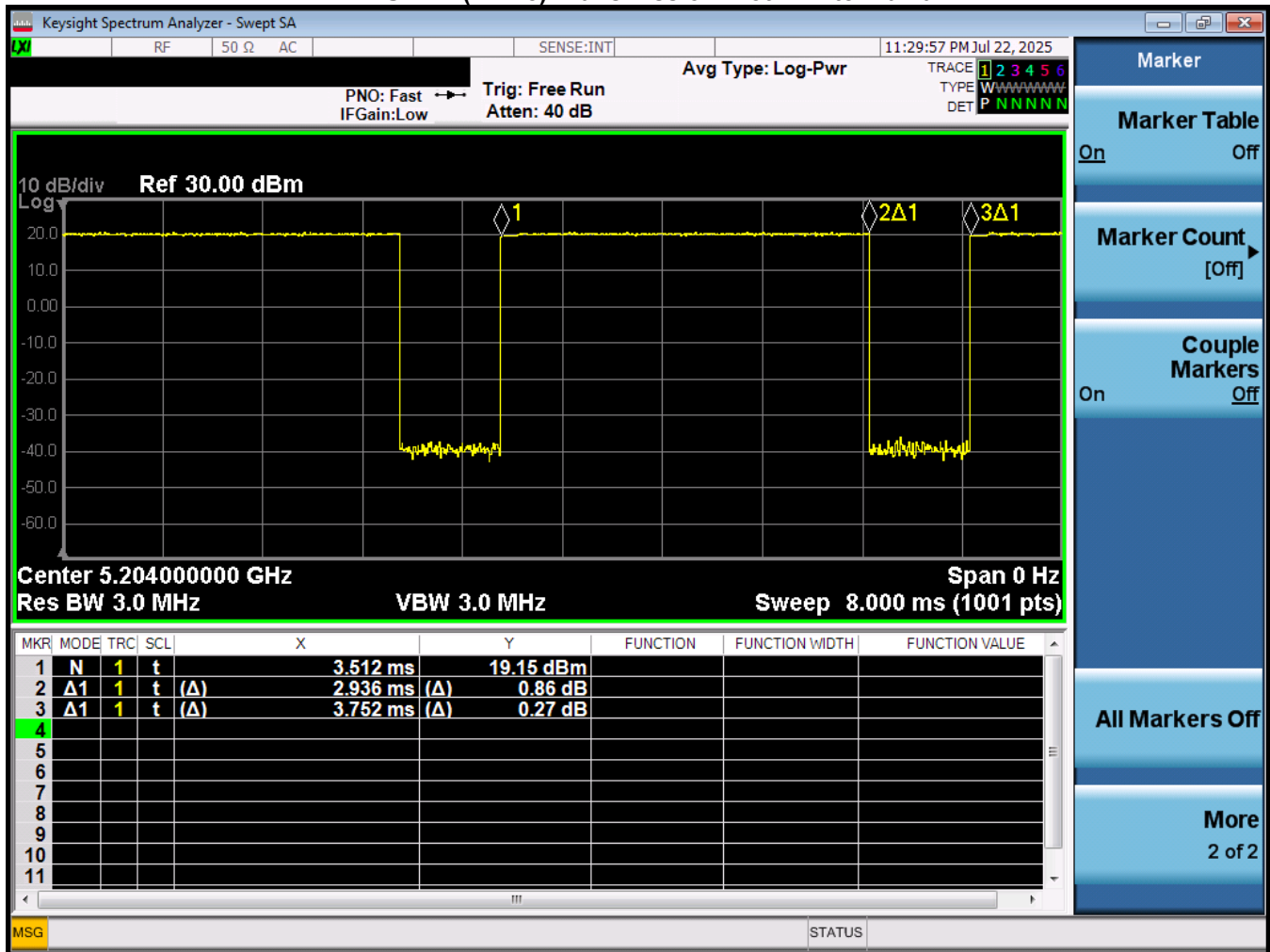
Equation 8-5
NB UNII 1 (HDR8) Duty Cycle Calculation – Antenna 2a

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.936 \text{ ms}}{3.752 \text{ ms}} * 100\% = 78.25\%$$

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Figure 8-11
NB UNII 1 (HDR8) Transmission Plot – Antenna 4a



Equation 8-6
NB UNII Duty Cycle Calculation – Antenna 4a

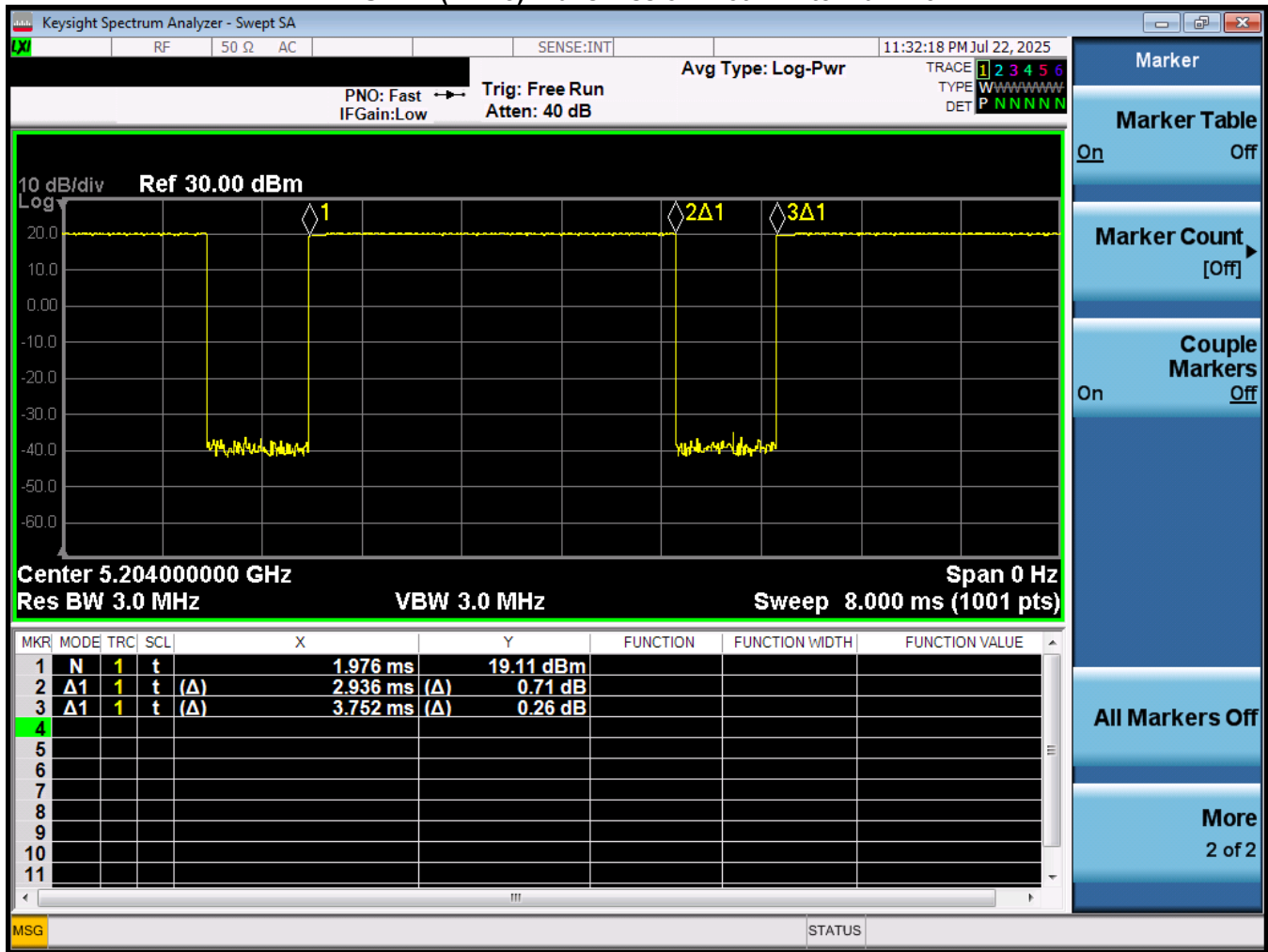
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.936 \text{ ms}}{3.752 \text{ ms}} * 100\% = 78.25\%$$

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Figure 8-12
NB UNII 1 (HDR8) Transmission Plot – Antenna WF5B



Equation 8-7
NB UNII 1 (HDR8) Duty Cycle Calculation – Antenna WF5B

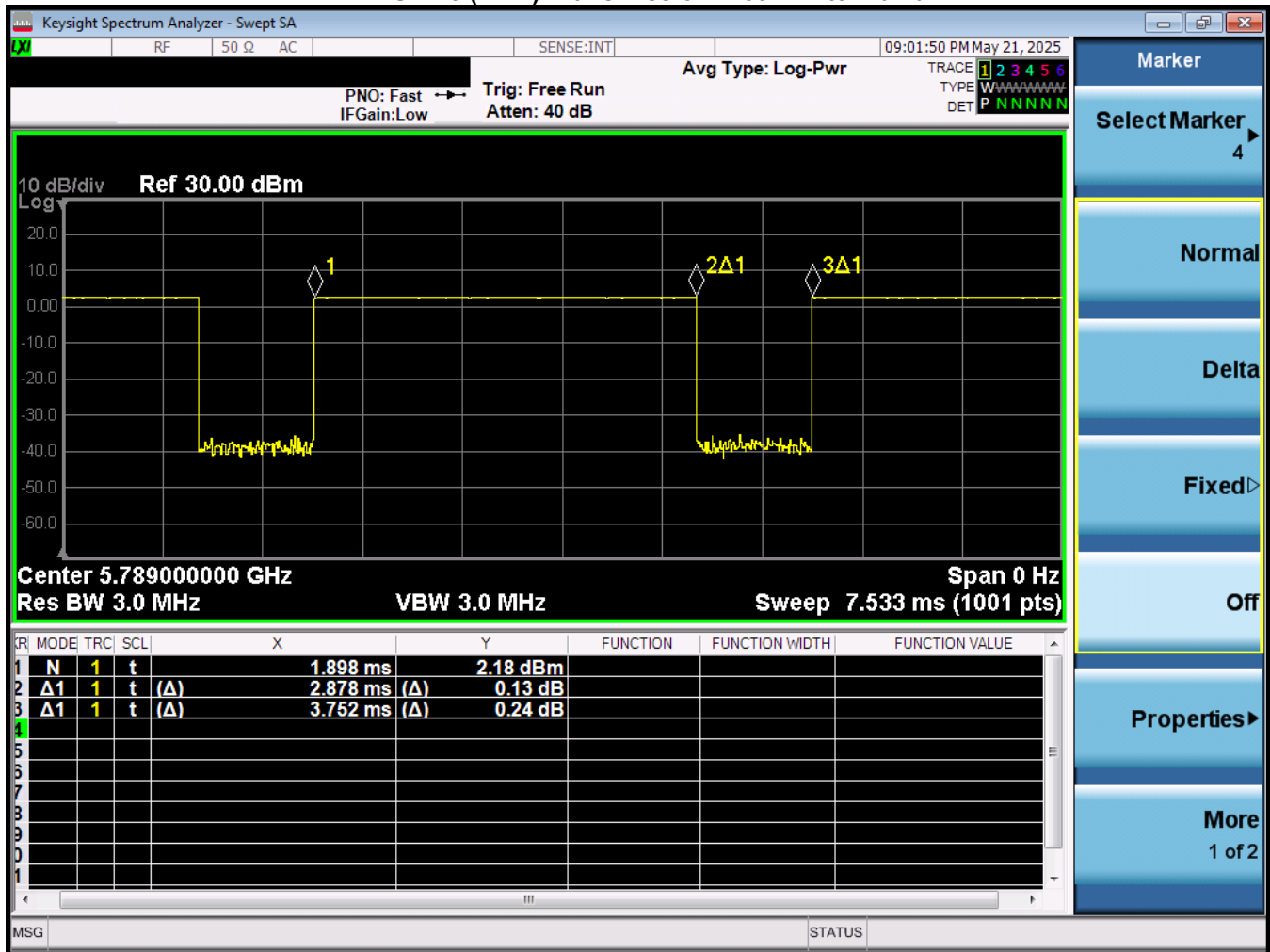
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.936 \text{ ms}}{3.752 \text{ ms}} * 100\% = 78.25\%$$

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Figure 8-13
NB UNII 3 (BDR) Transmission Plot – Antenna 2a



Equation 8-8
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna 2a

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.878 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.70\%$$

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Figure 8-14

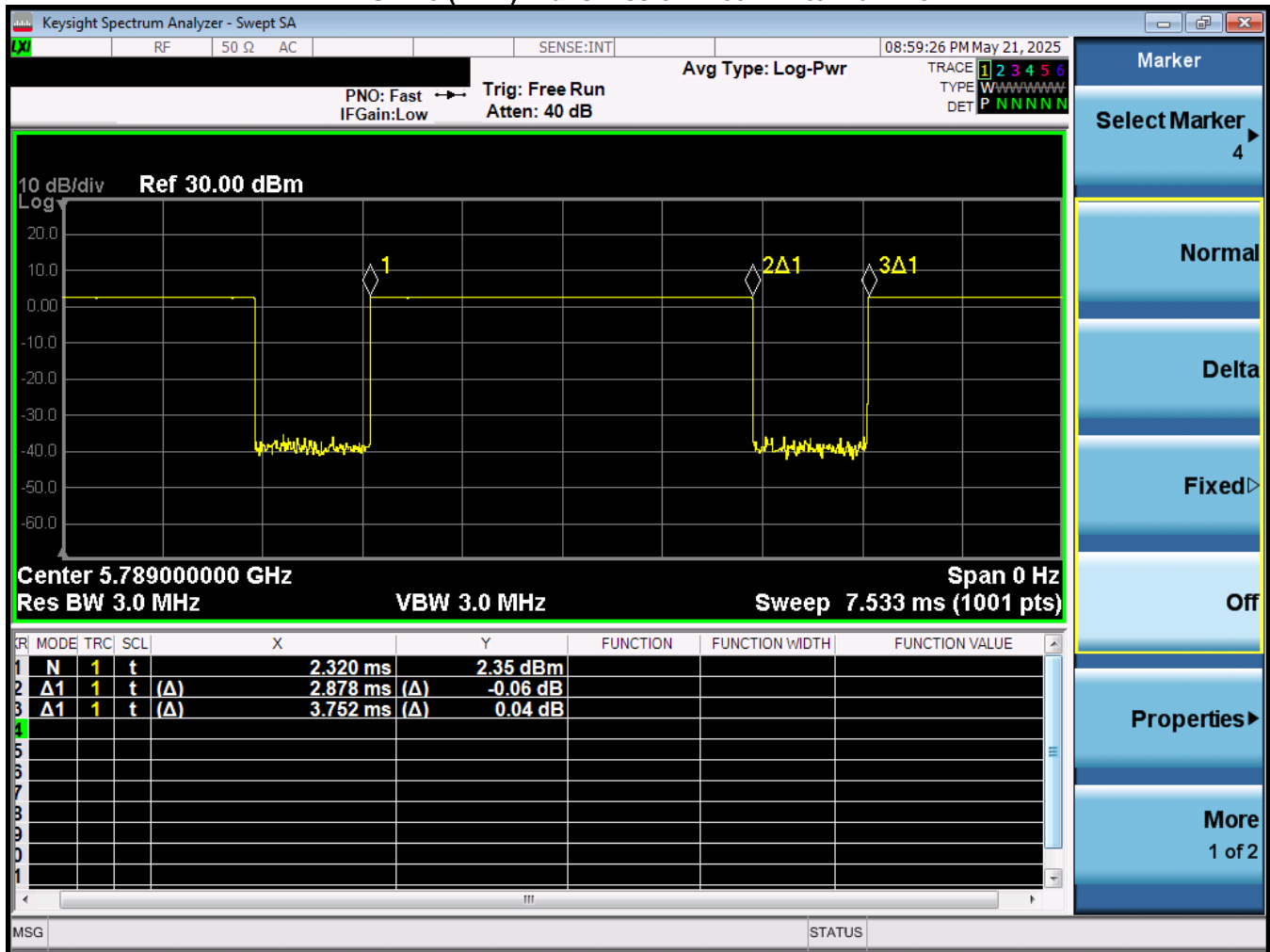


Equation 8-9

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.878 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.70\%$$

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Figure 8-15
NB UNII 3 (BDR) Transmission Plot – Antenna WF5B



Equation 8-10
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna WF5B

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.878 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.70\%$$

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[illegible]
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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Figure 8-17

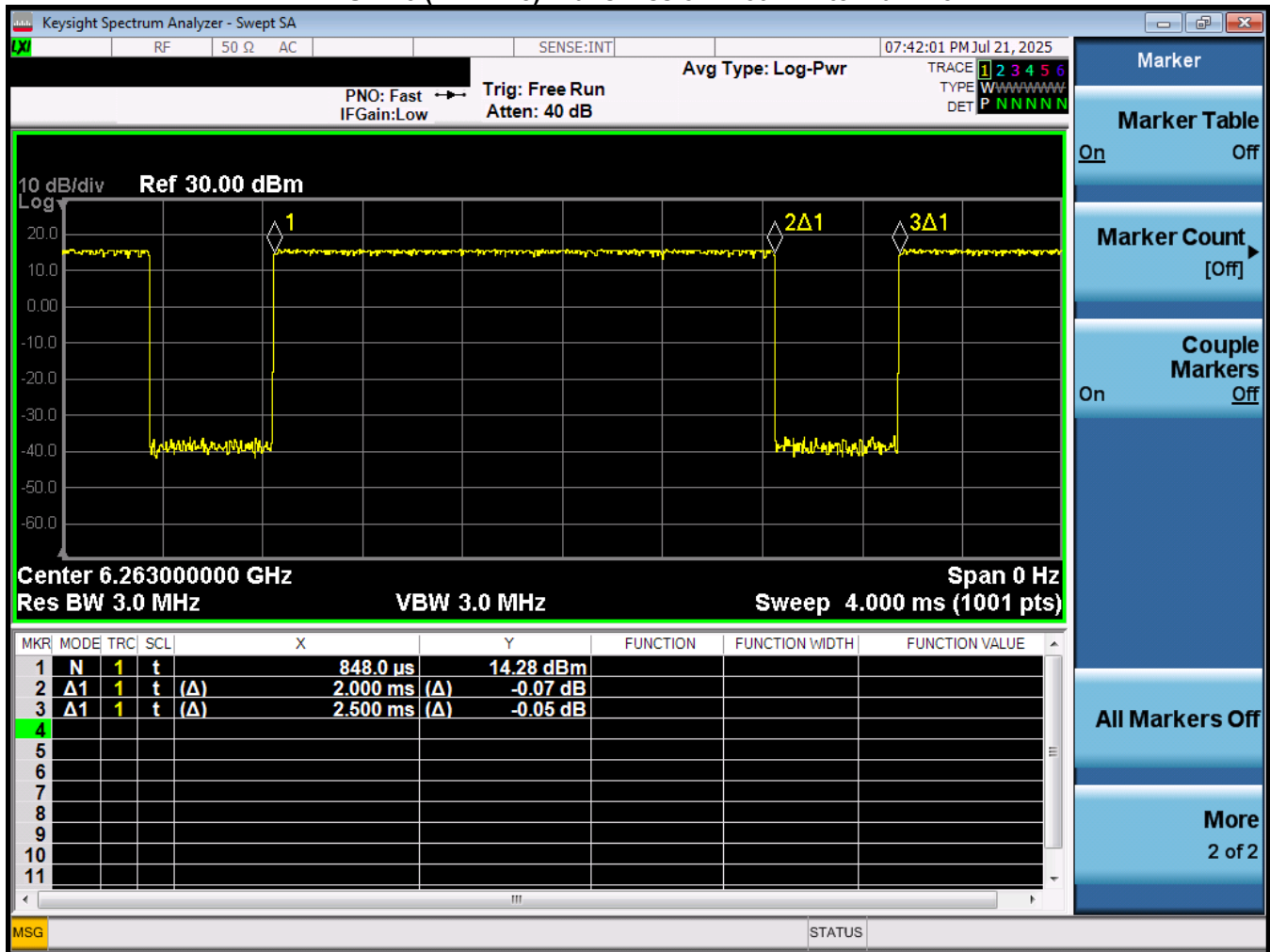


Equation 8-12

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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Figure 8-18
NB UNII 5 (HDRPL8) Transmission Plot – Antenna WF5B



Equation 8-13
NB UNII 5 (HDRPL8) Duty Cycle Calculation – Antenna WF5B

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.000\ ms}{2.500\ ms} * 100\% = 80.00\%$$

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8.20 Notes for NB UNII

- Full power measurements were performed per FCC KDB Procedures 248227.

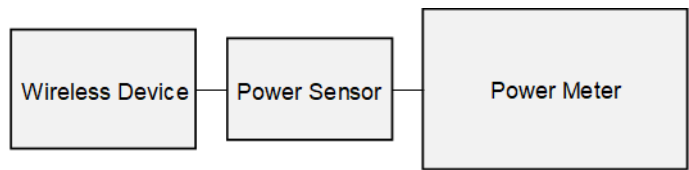


Figure 8-19

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
8/11/2025	30 Head	24.0	12	0.740	54.614	0.750	55.000	-1.33%	-0.70%
			13	0.740	54.554	0.750	55.000	-1.33%	-0.81%
			14	0.740	54.476	0.750	55.000	-1.33%	-0.95%
			30	0.742	53.584	0.750	55.000	-1.07%	-2.57%
			60	0.747	52.803	0.753	54.325	-0.80%	-2.80%
			65	0.748	52.667	0.753	54.213	-0.66%	-2.85%
5/19/2025	750 Head	22.6	150	0.776	50.969	0.760	52.300	2.11%	-2.54%
			680	0.891	41.001	0.888	42.305	0.34%	-3.08%
			695	0.896	40.963	0.889	42.227	0.79%	-2.99%
			700	0.898	40.952	0.889	42.201	1.01%	-2.96%
			710	0.901	40.923	0.890	42.149	1.24%	-2.91%
			725	0.905	40.879	0.891	42.071	1.57%	-2.83%
			750	0.913	40.806	0.894	41.942	2.13%	-2.71%
			770	0.921	40.735	0.895	41.838	2.91%	-2.64%
			785	0.926	40.692	0.896	41.760	3.35%	-2.56%
			800	0.932	40.653	0.897	41.682	3.90%	-2.47%
5/21/2025	750 Head	21.0	680	0.875	40.842	0.888	42.305	-1.46%	-3.46%
			695	0.880	40.809	0.889	42.227	-1.01%	-3.36%
			700	0.882	40.792	0.889	42.201	-0.79%	-3.34%
			710	0.885	40.772	0.890	42.149	-0.56%	-3.27%
			725	0.889	40.726	0.891	42.071	-0.22%	-3.20%
			750	0.896	40.608	0.894	41.942	0.22%	-3.18%
			770	0.903	40.529	0.895	41.838	0.89%	-3.13%
			785	0.909	40.494	0.896	41.760	1.45%	-3.03%
6/20/2025	750 Head	21.0	800	0.915	40.467	0.897	41.682	2.01%	-2.91%
			680	0.886	40.750	0.888	42.305	-0.23%	-3.68%
			695	0.892	40.720	0.889	42.227	0.34%	-3.57%
			700	0.893	40.711	0.889	42.201	0.45%	-3.53%
			710	0.897	40.694	0.890	42.149	0.79%	-3.45%
			725	0.902	40.651	0.891	42.071	1.23%	-3.38%
			750	0.909	40.575	0.894	41.942	1.68%	-3.26%
			770	0.916	40.492	0.895	41.838	2.35%	-3.22%
6/28/2025	750 Head	21.0	785	0.922	40.441	0.896	41.760	2.90%	-3.16%
			800	0.928	40.385	0.897	41.682	3.46%	-3.11%
			700	0.893	41.285	0.887	42.167	0.68%	-2.09%
			680	0.885	41.360	0.888	42.305	-0.34%	-2.23%
			695	0.891	41.304	0.889	42.227	0.22%	-2.19%
			700	0.893	41.285	0.889	42.201	0.45%	-2.17%
			710	0.896	41.254	0.890	42.149	0.67%	-2.12%
			725	0.902	41.216	0.891	42.071	1.23%	-2.03%
			750	0.909	41.160	0.894	41.942	1.68%	-1.86%
			770	0.915	41.082	0.895	41.838	2.23%	-1.81%
			785	0.920	41.029	0.896	41.760	2.68%	-1.75%
			800	0.926	40.970	0.897	41.682	3.23%	-1.71%

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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
5/15/2025	835 Head	19.9	815	0.904	43.080	0.898	41.594	0.67%	3.57%
			820	0.909	43.021	0.899	41.578	1.11%	3.47%
			835	0.924	42.845	0.900	41.500	2.67%	3.24%
			850	0.938	42.665	0.916	41.500	2.40%	2.81%
5/29/2025	835 Head	20.5	815	0.886	41.763	0.898	41.594	-1.34%	0.41%
			820	0.891	41.693	0.899	41.578	-0.89%	0.28%
			835	0.906	41.492	0.900	41.500	0.67%	-0.02%
			850	0.920	41.300	0.916	41.500	0.44%	-0.48%
6/2/2025	835 Head	21.7	815	0.876	41.076	0.898	41.594	-2.45%	-1.25%
			820	0.881	41.013	0.899	41.578	-2.00%	-1.36%
			835	0.896	40.822	0.900	41.500	-0.44%	-1.63%
			850	0.912	40.629	0.916	41.500	-0.44%	-2.10%
6/11/2025	835 Head	20.4	815	0.882	41.305	0.898	41.594	-1.78%	-0.69%
			820	0.887	41.242	0.899	41.578	-1.33%	-0.81%
			835	0.901	41.047	0.900	41.500	0.11%	-1.09%
			850	0.916	40.855	0.916	41.500	0.00%	-1.55%
5/23/2025	1750 Head	20.0	1700	1.300	39.253	1.343	40.145	-3.20%	-2.22%
			1705	1.304	39.234	1.345	40.141	-3.05%	-2.26%
			1710	1.309	39.212	1.348	40.136	-2.89%	-2.30%
			1720	1.319	39.167	1.354	40.126	-2.58%	-2.39%
			1745	1.342	39.043	1.368	40.087	-1.90%	-2.60%
			1750	1.346	39.021	1.371	40.079	-1.82%	-2.64%
			1770	1.365	38.927	1.383	40.047	-1.30%	-2.80%
			1790	1.383	38.847	1.394	40.016	-0.79%	-2.92%
5/27/2025	1750 Head	22.0	1700	1.377	38.675	1.343	40.145	2.57%	-3.66%
			1705	1.381	38.657	1.345	40.141	2.66%	-3.70%
			1710	1.386	38.638	1.348	40.136	2.79%	-3.73%
			1720	1.394	38.605	1.354	40.126	2.96%	-3.79%
			1745	1.418	38.490	1.368	40.087	3.65%	-3.98%
			1750	1.423	38.462	1.371	40.079	3.80%	-4.03%
			1770	1.443	38.375	1.383	40.047	4.34%	-4.17%
			1790	1.461	38.301	1.394	40.016	4.79%	-4.29%
8/13/2025	1750 Head	19.8	1700	1.301	39.144	1.343	40.145	-3.13%	-2.49%
			1705	1.306	39.119	1.345	40.141	-2.90%	-2.55%
			1710	1.312	39.093	1.348	40.136	-2.67%	-2.60%
			1720	1.322	39.041	1.354	40.126	-2.36%	-2.70%
			1745	1.349	38.911	1.368	40.087	-1.39%	-2.93%
			1750	1.355	38.886	1.371	40.079	-1.17%	-2.98%
			1770	1.376	38.790	1.383	40.047	-0.51%	-3.14%
			1790	1.397	38.699	1.394	40.016	0.22%	-3.29%

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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
6/11/2025	1900 Head	22.1	1850	1.341	39.309	1.400	40.000	-4.21%	-1.73%
			1860	1.351	39.267	1.400	40.000	-3.50%	-1.83%
			1880	1.372	39.185	1.400	40.000	-2.00%	-2.04%
			1900	1.392	39.108	1.400	40.000	-0.57%	-2.23%
			1905	1.397	39.088	1.400	40.000	-0.21%	-2.28%
			1910	1.402	39.069	1.400	40.000	0.14%	-2.33%
6/13/2025	1900 Head	20.1	1920	1.413	39.027	1.400	40.000	0.93%	-2.43%
			1850	1.391	38.355	1.400	40.000	-0.64%	-4.11%
			1860	1.402	38.307	1.400	40.000	0.14%	-4.23%
			1880	1.423	38.218	1.400	40.000	1.64%	-4.45%
			1900	1.443	38.133	1.400	40.000	3.07%	-4.67%
			1905	1.448	38.111	1.400	40.000	3.43%	-4.72%
6/30/2025	1900 Head	21.4	1910	1.453	38.091	1.400	40.000	3.79%	-4.77%
			1920	1.463	38.048	1.400	40.000	4.50%	-4.88%
			1850	1.392	40.527	1.400	40.000	-0.57%	1.32%
			1860	1.402	40.470	1.400	40.000	0.14%	1.17%
			1880	1.422	40.386	1.400	40.000	1.57%	0.97%
			1900	1.444	40.310	1.400	40.000	3.14%	0.78%
5/27/2025	2450 Head	23.0	1905	1.449	40.287	1.400	40.000	3.50%	0.72%
			1910	1.454	40.261	1.400	40.000	3.86%	0.65%
			1920	1.465	40.208	1.400	40.000	4.64%	0.52%
			2300	1.629	38.703	1.670	39.500	-2.46%	-2.02%
			2310	1.637	38.696	1.679	39.480	-2.50%	-1.99%
			2320	1.645	38.688	1.687	39.460	-2.49%	-1.96%
			2400	1.701	38.570	1.756	39.289	-3.13%	-1.83%
			2450	1.739	38.514	1.800	39.200	-3.39%	-1.75%
			2480	1.762	38.465	1.833	39.162	-3.87%	-1.78%
			2500	1.777	38.429	1.855	39.136	-4.20%	-1.81%
6/17/2025	2450 Head	20.0	2510	1.785	38.418	1.866	39.123	-4.34%	-1.80%
			2535	1.805	38.374	1.893	39.092	-4.65%	-1.84%
			2550	1.818	38.354	1.909	39.073	-4.77%	-1.84%
			2560	1.826	38.341	1.920	39.060	-4.90%	-1.84%
			2300	1.680	40.426	1.670	39.500	0.60%	2.34%
			2310	1.688	40.419	1.679	39.480	0.54%	2.38%
			2320	1.696	40.415	1.687	39.460	0.53%	2.42%
			2400	1.759	40.279	1.756	39.289	0.17%	2.52%
			2450	1.799	40.213	1.800	39.200	-0.06%	2.58%
			2480	1.824	40.161	1.833	39.162	-0.49%	2.55%
			2500	1.838	40.125	1.855	39.136	-0.92%	2.53%
			2510	1.844	40.110	1.866	39.123	-1.18%	2.52%
			2535	1.862	40.082	1.893	39.092	-1.64%	2.53%
			2550	1.875	40.064	1.909	39.073	-1.78%	2.54%
6/24/2025	2450 Head	20.0	2560	1.885	40.050	1.920	39.060	-1.82%	2.53%
			2600	1.922	39.985	1.964	39.009	-2.14%	2.50%
			2650	1.961	39.923	2.018	38.945	-2.82%	2.51%
			2680	1.989	39.865	2.051	38.907	-3.02%	2.46%
			2700	2.008	39.819	2.073	38.882	-3.14%	2.41%
			2300	1.658	39.311	1.670	39.500	-0.72%	-0.48%
			2310	1.666	39.301	1.679	39.480	-0.77%	-0.45%
			2320	1.673	39.291	1.687	39.460	-0.83%	-0.43%
			2400	1.737	39.191	1.756	39.289	-1.08%	-0.25%
			2450	1.777	39.106	1.800	39.200	-1.28%	-0.24%
			2480	1.800	39.051	1.833	39.162	-1.80%	-0.28%
			2500	1.816	39.021	1.855	39.136	-2.10%	-0.29%
			2510	1.824	39.006	1.866	39.123	-2.25%	-0.30%
			2535	1.845	38.963	1.893	39.092	-2.54%	-0.33%
			2550	1.857	38.932	1.909	39.073	-2.72%	-0.36%
			2560	1.864	38.912	1.920	39.060	-2.92%	-0.38%
			2600	1.897	38.851	1.964	39.009	-3.41%	-0.41%
			2650	1.937	38.776	2.018	38.945	-4.01%	-0.43%
			2680	1.961	38.721	2.051	38.907	-4.39%	-0.48%
			2700	1.978	38.685	2.073	38.882	-4.58%	-0.51%

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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
6/25/2025	2450 Head	20.3	2300	1.666	39.695	1.670	39.500	-0.24%	0.49%
			2310	1.674	39.682	1.679	39.480	-0.30%	0.51%
			2320	1.681	39.669	1.687	39.460	-0.36%	0.53%
			2400	1.738	39.545	1.756	39.289	-1.03%	0.65%
			2450	1.778	39.479	1.800	39.200	-1.22%	0.71%
			2480	1.799	39.444	1.833	39.162	-1.85%	0.72%
			2500	1.813	39.402	1.855	39.136	-2.26%	0.68%
			2510	1.819	39.380	1.866	39.123	-2.52%	0.66%
			2535	1.841	39.336	1.893	39.092	-2.75%	0.62%
			2550	1.854	39.321	1.909	39.073	-2.88%	0.63%
			2560	1.861	39.312	1.920	39.060	-3.07%	0.65%
			2600	1.891	39.239	1.964	39.009	-3.72%	0.59%
			2650	1.934	39.161	2.018	38.945	-4.16%	0.55%
			2680	1.959	39.112	2.051	38.907	-4.49%	0.53%
			2700	1.974	39.070	2.073	38.882	-4.78%	0.48%
6/25/2025	2450 Head	24.0	2300	1.702	39.550	1.670	39.500	1.92%	0.13%
			2310	1.713	39.519	1.679	39.480	2.03%	0.10%
			2320	1.724	39.481	1.687	39.460	2.19%	0.05%
			2400	1.818	39.135	1.756	39.289	3.53%	-0.39%
			2450	1.873	38.940	1.800	39.200	4.06%	-0.66%
			2480	1.908	38.786	1.833	39.162	4.09%	-0.96%
			2500	1.933	38.710	1.855	39.136	4.20%	-1.09%
			2510	1.946	38.677	1.866	39.123	4.29%	-1.14%
			2535	1.976	38.594	1.893	39.092	4.38%	-1.27%
			2550	1.991	38.532	1.909	39.073	4.30%	-1.38%
			2560	2.001	38.483	1.920	39.060	4.22%	-1.48%
			2600	2.049	38.302	1.964	39.009	4.33%	-1.81%
			2650	2.111	38.131	2.018	38.945	4.61%	-2.09%
			2680	2.142	37.991	2.051	38.907	4.44%	-2.35%
			2700	2.165	37.896	2.073	38.882	4.44%	-2.54%
6/30/2025	2450 Head	19.1	2300	1.650	38.467	1.670	39.500	-1.20%	-2.62%
			2310	1.658	38.455	1.679	39.480	-1.25%	-2.60%
			2320	1.667	38.444	1.687	39.460	-1.19%	-2.57%
			2400	1.728	38.337	1.756	39.289	-1.59%	-2.42%
			2450	1.768	38.274	1.800	39.200	-1.78%	-2.36%
			2480	1.791	38.218	1.833	39.162	-2.29%	-2.41%
			2500	1.806	38.181	1.855	39.136	-2.64%	-2.44%
			2510	1.814	38.160	1.866	39.123	-2.79%	-2.46%
			2535	1.835	38.117	1.893	39.092	-3.06%	-2.49%
			2550	1.848	38.087	1.909	39.073	-3.20%	-2.52%
			2560	1.857	38.068	1.920	39.060	-3.28%	-2.54%
			2600	1.889	37.989	1.964	39.009	-3.82%	-2.61%
			2650	1.930	37.908	2.018	38.945	-4.36%	-2.66%
			2680	1.954	37.856	2.051	38.907	-4.73%	-2.70%
			2700	1.971	37.814	2.073	38.882	-4.92%	-2.75%
7/26/2025	2450 Head	19.9	2300	1.661	39.214	1.670	39.500	-0.54%	-0.72%
			2310	1.670	39.197	1.679	39.480	-0.54%	-0.72%
			2320	1.679	39.183	1.687	39.460	-0.47%	-0.70%
			2400	1.739	39.063	1.756	39.289	-0.97%	-0.58%
			2450	1.785	38.988	1.800	39.200	-0.83%	-0.54%
			2480	1.806	38.964	1.833	39.162	-1.47%	-0.51%
			2500	1.819	38.915	1.855	39.136	-1.94%	-0.56%
			2510	1.827	38.883	1.866	39.123	-2.09%	-0.61%
			2535	1.851	38.820	1.893	39.092	-2.22%	-0.70%
			2550	1.867	38.811	1.909	39.073	-2.20%	-0.67%
			2560	1.876	38.812	1.920	39.060	-2.29%	-0.63%
			2600	1.905	38.763	1.964	39.009	-3.00%	-0.63%
			2650	1.948	38.626	2.018	38.945	-3.47%	-0.82%
			2680	1.976	38.612	2.051	38.907	-3.66%	-0.76%
			2700	1.991	38.579	2.073	38.882	-3.96%	-0.78%

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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
5/20/2025	3600 Head	20.2	3300	2.673	39.807	2.708	38.157	-1.29%	4.32%
			3350	2.708	39.722	2.759	38.100	-1.85%	4.26%
			3450	2.791	39.577	2.861	37.986	-2.45%	4.19%
			3500	2.836	39.497	2.913	37.929	-2.64%	4.13%
			3550	2.876	39.430	2.964	37.871	-2.97%	4.12%
			3560	2.884	39.406	2.974	37.860	-3.03%	4.08%
			3600	2.919	39.348	3.015	37.814	-3.18%	4.06%
			3650	2.959	39.276	3.066	37.757	-3.49%	4.02%
			3690	3.000	39.197	3.107	37.711	-3.44%	3.94%
			3700	3.010	39.174	3.117	37.700	-3.43%	3.91%
			3750	3.050	39.107	3.169	37.643	-3.76%	3.89%
			3900	3.188	38.896	3.323	37.471	-4.06%	3.80%
			3930	3.218	38.849	3.353	37.437	-4.03%	3.77%
			4100	3.378	38.617	3.528	37.243	-4.25%	3.69%
			4150	3.426	38.553	3.579	37.186	-4.27%	3.68%
6/24/2025	3600 Head	21.0	3300	2.661	38.483	2.708	38.157	-1.74%	0.85%
			3350	2.697	38.408	2.759	38.100	-2.25%	0.81%
			3450	2.779	38.259	2.861	37.986	-2.87%	0.72%
			3500	2.822	38.184	2.913	37.929	-3.12%	0.67%
			3550	2.865	38.131	2.964	37.871	-3.34%	0.69%
			3560	2.874	38.097	2.974	37.860	-3.36%	0.63%
			3600	2.907	38.047	3.015	37.814	-3.58%	0.62%
			3650	2.954	37.983	3.066	37.757	-3.65%	0.60%
			3690	2.989	37.909	3.107	37.711	-3.80%	0.53%
			3700	2.998	37.889	3.117	37.700	-3.82%	0.50%
			3750	3.043	37.844	3.169	37.643	-3.98%	0.53%
			3900	3.179	37.638	3.323	37.471	-4.33%	0.45%
			3930	3.209	37.568	3.353	37.437	-4.29%	0.35%
			4100	3.375	37.353	3.528	37.243	-4.34%	0.30%
			4150	3.421	37.304	3.579	37.186	-4.41%	0.32%
6/26/2025	3600 Head	19.0	3300	2.601	38.929	2.708	38.157	-3.95%	2.02%
			3350	2.643	38.843	2.759	38.100	-4.20%	1.95%
			3450	2.736	38.666	2.861	37.986	-4.37%	1.79%
			3500	2.789	38.566	2.913	37.929	-4.26%	1.68%
			3550	2.834	38.479	2.964	37.871	-4.39%	1.61%
			3560	2.846	38.450	2.974	37.860	-4.30%	1.56%
			3600	2.882	38.397	3.015	37.814	-4.41%	1.54%
			3650	2.931	38.312	3.066	37.757	-4.40%	1.47%
			3690	2.975	38.209	3.107	37.711	-4.25%	1.32%
			3700	2.985	38.194	3.117	37.700	-4.23%	1.31%
			3750	3.030	38.130	3.169	37.643	-4.39%	1.29%
			3900	3.182	37.858	3.323	37.471	-4.24%	1.03%
			3930	3.215	37.794	3.353	37.437	-4.12%	0.95%
			4100	3.394	37.495	3.528	37.243	-3.80%	0.68%
			4150	3.447	37.431	3.579	37.186	-3.69%	0.66%
6/30/2025	3600 Head	21.0	3300	2.679	37.459	2.708	38.157	-1.09%	-1.83%
			3350	2.713	37.390	2.759	38.100	-1.68%	-1.86%
			3450	2.791	37.231	2.861	37.986	-2.43%	-1.99%
			3500	2.833	37.146	2.913	37.929	-2.75%	-2.06%
			3550	2.873	37.089	2.964	37.871	-3.08%	-2.07%
			3560	2.881	37.063	2.974	37.860	-3.11%	-2.11%
			3600	2.915	37.014	3.015	37.814	-3.31%	-2.12%
			3650	2.956	36.930	3.066	37.757	-3.58%	-2.19%
			3690	2.993	36.863	3.107	37.711	-3.66%	-2.25%
			3700	3.003	36.848	3.117	37.700	-3.65%	-2.26%
			3750	3.047	36.779	3.169	37.643	-3.87%	-2.30%
			3900	3.179	36.564	3.323	37.471	-4.32%	-2.42%
			3930	3.206	36.509	3.353	37.437	-4.38%	-2.48%
			4100	3.367	36.295	3.528	37.243	-4.57%	-2.54%
			4150	3.415	36.229	3.579	37.186	-4.57%	-2.57%

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6/17/2025	5200-5800 Head	20.1	5150	4.566	36.365	4.608	36.050	-0.91%	0.87%
			5160	4.578	36.347	4.618	36.040	-0.87%	0.85%
			5170	4.587	36.324	4.629	36.030	-0.91%	0.82%
			5180	4.600	36.303	4.635	36.009	-0.76%	0.82%
			5190	4.615	36.282	4.645	35.998	-0.65%	0.79%
			5200	4.629	36.273	4.655	35.986	-0.56%	0.80%
			5210	4.637	36.269	4.666	35.975	-0.62%	0.82%
			5220	4.641	36.260	4.676	35.963	-0.75%	0.83%
			5240	4.664	36.205	4.696	35.940	-0.68%	0.74%
			5250	4.678	36.177	4.706	35.929	-0.59%	0.69%
			5260	4.690	36.161	4.717	35.917	-0.57%	0.68%
			5270	4.699	36.146	4.727	35.906	-0.59%	0.67%
			5280	4.713	36.120	4.737	35.894	-0.51%	0.63%
			5290	4.728	36.093	4.748	35.883	-0.42%	0.59%
			5300	4.742	36.085	4.758	35.871	-0.34%	0.60%
			5310	4.751	36.079	4.768	35.860	-0.36%	0.61%
			5320	4.759	36.077	4.778	35.849	-0.40%	0.64%
			5500	4.958	35.715	4.963	35.643	-0.10%	0.20%
			5510	4.970	35.709	4.973	35.632	-0.06%	0.22%
			5520	4.977	35.702	4.983	35.620	-0.12%	0.23%
			5530	4.990	35.689	4.994	35.609	-0.08%	0.22%
			5540	5.006	35.656	5.004	35.597	0.04%	0.17%
			5550	5.021	35.638	5.014	35.586	0.14%	0.15%
			5560	5.027	35.634	5.024	35.574	0.06%	0.17%
			5580	5.042	35.605	5.045	35.551	-0.06%	0.15%
			5600	5.070	35.533	5.065	35.529	0.10%	0.01%
			5610	5.087	35.520	5.076	35.518	0.22%	0.01%
			5620	5.103	35.510	5.086	35.506	0.33%	0.01%
			5640	5.124	35.480	5.106	35.483	0.35%	-0.01%
			5660	5.145	35.442	5.127	35.460	0.35%	-0.05%
			5670	5.157	35.430	5.137	35.449	0.39%	-0.05%
			5680	5.165	35.417	5.147	35.437	0.35%	-0.06%
			5690	5.173	35.389	5.158	35.426	0.29%	-0.10%
			5700	5.188	35.366	5.168	35.414	0.39%	-0.14%
			5710	5.205	35.335	5.178	35.403	0.52%	-0.19%
			5720	5.219	35.313	5.188	35.391	0.60%	-0.22%
			5745	5.245	35.289	5.214	35.363	0.59%	-0.21%
			5750	5.252	35.283	5.219	35.357	0.63%	-0.21%
			5755	5.258	35.278	5.224	35.351	0.65%	-0.21%
			5765	5.270	35.259	5.234	35.340	0.69%	-0.23%
			5775	5.276	35.247	5.245	35.329	0.59%	-0.23%
			5785	5.283	35.233	5.255	35.317	0.53%	-0.24%
			5795	5.296	35.203	5.265	35.305	0.59%	-0.29%
			5800	5.300	35.185	5.270	35.300	0.57%	-0.33%
			5805	5.306	35.169	5.275	35.294	0.59%	-0.35%
			5825	5.338	35.142	5.296	35.271	0.79%	-0.37%
			5835	5.352	35.135	5.305	35.230	0.89%	-0.27%
			5845	5.367	35.127	5.315	35.210	0.98%	-0.24%
			5850	5.370	35.123	5.320	35.200	0.94%	-0.22%
			5855	5.373	35.118	5.325	35.197	0.90%	-0.22%
			5865	5.386	35.102	5.336	35.190	0.94%	-0.25%
			5875	5.399	35.084	5.347	35.183	0.97%	-0.28%
			5885	5.411	35.060	5.357	35.177	1.01%	-0.33%
			5905	5.424	35.006	5.379	35.163	0.84%	-0.45%

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7/21/2025	5200-5800 Head	20.0	5150	4.483	35.297	4.608	36.050	-2.71%	-2.09%
			5160	4.496	35.277	4.618	36.040	-2.64%	-2.12%
			5170	4.506	35.258	4.629	36.030	-2.66%	-2.14%
			5180	4.514	35.237	4.635	36.009	-2.61%	-2.14%
			5190	4.527	35.214	4.645	35.998	-2.54%	-2.18%
			5200	4.544	35.201	4.655	35.986	-2.38%	-2.18%
			5210	4.560	35.197	4.666	35.975	-2.27%	-2.16%
			5220	4.567	35.176	4.676	35.963	-2.33%	-2.19%
			5240	4.580	35.114	4.696	35.940	-2.47%	-2.30%
			5250	4.594	35.105	4.706	35.929	-2.38%	-2.29%
			5260	4.604	35.096	4.717	35.917	-2.40%	-2.29%
			5270	4.616	35.086	4.727	35.906	-2.35%	-2.28%
			5280	4.628	35.059	4.737	35.894	-2.30%	-2.33%
			5290	4.642	35.032	4.748	35.883	-2.23%	-2.37%
			5300	4.654	35.013	4.758	35.871	-2.19%	-2.39%
			5310	4.662	35.005	4.768	35.860	-2.22%	-2.38%
			5320	4.676	35.000	4.778	35.849	-2.13%	-2.37%
			5500	4.872	34.646	4.963	35.643	-1.83%	-2.80%
			5510	4.881	34.638	4.973	35.632	-1.85%	-2.79%
			5520	4.894	34.620	4.983	35.620	-1.79%	-2.81%
			5530	4.908	34.586	4.994	35.609	-1.72%	-2.87%
			5540	4.921	34.556	5.004	35.597	-1.66%	-2.92%
			5550	4.927	34.535	5.014	35.586	-1.74%	-2.95%
			5560	4.936	34.526	5.024	35.574	-1.75%	-2.95%
			5580	4.955	34.501	5.045	35.551	-1.78%	-2.95%
			5600	4.984	34.459	5.065	35.529	-1.60%	-3.01%
			5610	4.998	34.438	5.076	35.518	-1.54%	-3.04%
			5620	5.008	34.434	5.086	35.506	-1.53%	-3.02%
			5640	5.031	34.374	5.106	35.483	-1.47%	-3.13%
			5660	5.056	34.326	5.127	35.460	-1.38%	-3.20%
			5670	5.064	34.321	5.137	35.449	-1.42%	-3.18%
			5680	5.072	34.316	5.147	35.437	-1.46%	-3.16%
			5690	5.087	34.291	5.158	35.426	-1.38%	-3.20%
			5700	5.098	34.266	5.168	35.414	-1.35%	-3.24%
			5710	5.107	34.253	5.178	35.403	-1.37%	-3.25%
			5720	5.119	34.233	5.188	35.391	-1.33%	-3.27%
			5745	5.155	34.192	5.214	35.363	-1.13%	-3.31%
			5750	5.159	34.178	5.219	35.357	-1.15%	-3.33%
			5755	5.164	34.167	5.224	35.351	-1.15%	-3.35%
			5765	5.176	34.148	5.234	35.340	-1.11%	-3.37%
			5775	5.188	34.131	5.245	35.329	-1.09%	-3.39%
			5785	5.199	34.114	5.255	35.317	-1.07%	-3.41%
			5795	5.208	34.096	5.265	35.305	-1.08%	-3.42%
			5800	5.214	34.088	5.270	35.300	-1.06%	-3.43%
			5805	5.218	34.081	5.275	35.294	-1.08%	-3.44%
			5825	5.236	34.050	5.296	35.271	-1.13%	-3.46%
			5835	5.247	34.033	5.305	35.230	-1.09%	-3.40%
			5845	5.258	34.023	5.315	35.210	-1.07%	-3.37%
			5850	5.265	34.020	5.320	35.200	-1.03%	-3.35%
			5855	5.269	34.010	5.325	35.197	-1.05%	-3.37%
			5865	5.279	33.990	5.336	35.190	-1.07%	-3.41%
			5875	5.291	33.956	5.347	35.183	-1.05%	-3.49%
			5885	5.303	33.924	5.357	35.177	-1.01%	-3.56%
			5905	5.327	33.886	5.379	35.163	-0.97%	-3.63%

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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
7/1/2025	6000 Head	20.5	5935	5.171	34.717	5.411	35.143	-4.44%	-1.21%
			5970	5.208	34.675	5.448	35.120	-4.41%	-1.27%
			5985	5.223	34.649	5.464	35.110	-4.41%	-1.31%
			6000	5.242	34.617	5.480	35.100	-4.34%	-1.38%
			6025	5.275	34.554	5.510	35.070	-4.26%	-1.47%
			6065	5.328	34.500	5.557	35.022	-4.12%	-1.49%
			6075	5.338	34.489	5.569	35.010	-4.15%	-1.49%
			6085	5.350	34.477	5.580	34.998	-4.12%	-1.49%
			6185	5.465	34.284	5.698	34.878	-4.09%	-1.70%
			6275	5.585	34.126	5.805	34.770	-3.79%	-1.85%
			6285	5.591	34.117	5.816	34.758	-3.87%	-1.84%
			6305	5.609	34.087	5.840	34.734	-3.96%	-1.86%
			6345	5.658	34.020	5.887	34.686	-3.89%	-1.92%
			6475	5.804	33.804	6.041	34.530	-3.92%	-2.10%
			6485	5.814	33.789	6.052	34.518	-3.93%	-2.11%
			6500	5.828	33.753	6.070	34.500	-3.99%	-2.17%
			6505	5.833	33.741	6.076	34.494	-4.00%	-2.18%
			6545	5.886	33.647	6.122	34.446	-3.85%	-2.32%
			6665	6.042	33.450	6.265	34.302	-3.56%	-2.48%
			6675	6.056	33.438	6.273	34.290	-3.46%	-2.48%
			6685	6.069	33.433	6.285	34.278	-3.44%	-2.47%
			6715	6.098	33.397	6.319	34.242	-3.50%	-2.47%
			6785	6.173	33.271	6.400	34.158	-3.55%	-2.60%
			6825	6.209	33.217	6.447	34.110	-3.69%	-2.62%
			6985	6.399	32.934	6.633	33.918	-3.53%	-2.90%
			6995	6.408	32.923	6.644	33.906	-3.55%	-2.90%
			7000	6.412	32.922	6.650	33.900	-3.58%	-2.88%
			7005	6.418	32.919	6.656	33.894	-3.58%	-2.88%
			7025	6.441	32.895	6.680	33.870	-3.58%	-2.88%
			7500	7.009	32.096	7.240	33.300	-3.19%	-3.62%
			7980	7.580	31.329	7.816	32.724	-3.02%	-4.26%

The above measured tissue parameters were used in 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.

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

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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 the SAR System Validation Appendix.

Table 9-2
System Verification Results

System Verification TARGET & MEASURED														Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)				
AM14	13	HEAD	08/11/2025	21.1	22.2	1.00	1004	3746	1237	0.609	0.575	0.609	5.91%				
AM7	750	HEAD	05/19/2025	20.8	21.0	0.20	1097	7490	1644	1.730	8.270	8.650	4.59%				
AM7	750	HEAD	05/21/2025	20.6	20.0	0.20	1097	7490	1644	1.730	8.270	8.650	4.59%				
AM1	750	HEAD	06/20/2025	23.5	21.0	0.20	1097	7357	1582	1.730	8.270	8.650	4.59%				
AM1	750	HEAD	06/28/2025	22.6	21.0	0.20	1097	7357	1582	1.760	8.270	8.800	6.41%				
AM11	835	HEAD	05/15/2025	21.5	19.6	0.20	4d040	7551	1323	2.060	9.590	10.300	7.40%				
AM12	835	HEAD	05/29/2025	21.9	20.5	0.20	4d108	7427	1408	2.020	9.800	10.100	3.06%				
AM12	835	HEAD	06/02/2025	22.5	21.6	0.20	4d108	7427	1408	2.010	9.800	10.050	2.55%				
AM12	835	HEAD	06/11/2025	21.9	20.6	0.20	4d108	7427	1408	2.020	9.800	10.100	3.06%				
AM13	1750	HEAD	05/23/2025	21.7	20.2	0.10	1040	7421	604	3.660	36.400	36.600	0.55%				
AM14	1750	HEAD	05/27/2025	21.1	20.6	0.10	1040	3746	1237	3.480	36.400	34.800	-4.40%				
AM13	1750	HEAD	08/13/2025	21.5	20.0	0.10	1040	7421	604	3.800	36.400	38.000	4.40%				
AM15	1900	HEAD	06/11/2025	22.1	23.5	0.10	5d180	7638	467	3.970	39.200	39.700	1.28%				
AM15	1900	HEAD	06/13/2025	22.4	20.8	0.10	5d180	7638	467	4.060	39.200	40.600	3.57%				
AM15	1900	HEAD	06/30/2025	22.9	21.4	0.10	5d180	7638	467	4.150	39.200	41.500	5.87%				
AM10	2300	HEAD	05/27/2025	23.5	21.9	0.10	1038	3837	793	4.610	49.100	46.100	-6.11%				
AM13	2450	HEAD	06/17/2025	22.1	20.2	0.10	750	7421	604	5.020	53.300	50.200	-5.82%				
AM10	2450	HEAD	06/25/2025	20.1	19.5	0.10	750	3837	793	5.180	53.300	51.800	-2.81%				
AM14	2450	HEAD	06/25/2025	22.5	23.5	0.10	855	3746	1237	5.060	52.400	50.600	-3.44%				
AM10	2450	HEAD	07/26/2025	21.3	20.9	0.10	750	3837	793	5.520	53.300	55.200	3.56%				
AM13	2600	HEAD	06/17/2025	22.1	20.2	0.10	1042	7421	604	5.200	54.900	52.000	-5.28%				
AM13	2600	HEAD	06/24/2025	22.0	20.0	0.10	1042	7421	604	5.160	54.900	51.600	-6.01%				
AM10	2600	HEAD	06/25/2025	20.1	19.5	0.10	1042	3837	793	5.140	54.900	51.400	-6.38%				
AM10	2600	HEAD	06/30/2025	20.1	19.8	0.10	1069	3837	793	5.340	56.200	53.400	-4.98%				
AM6	3500	HEAD	05/20/2025	21.0	20.0	0.10	1055	7639	1403	6.240	66.000	62.400	-5.45%				
AM3	3500	HEAD	06/24/2025	21.4	21.0	0.10	1055	7668	1681	6.890	66.000	68.900	4.39%				
AM6	3500	HEAD	06/26/2025	21.1	20.0	0.10	1055	7682	1683	6.600	66.000	66.000	0.00%				
AM3	3500	HEAD	06/30/2025	21.1	21.0	0.10	1055	7668	1681	7.030	66.000	70.300	6.52%				
AM6	3700	HEAD	05/20/2025	21.0	20.0	0.10	1002	7639	1403	6.410	67.900	64.100	-5.60%				
AM3	3700	HEAD	06/24/2025	21.4	21.0	0.10	1002	7668	1681	6.770	67.900	67.700	-0.29%				
AM6	3700	HEAD	06/26/2025	21.1	20.0	0.10	1002	7682	1683	6.420	67.900	64.200	-5.45%				
AM3	3700	HEAD	06/30/2025	21.1	21.0	0.10	1002	7668	1681	7.060	67.900	70.600	3.98%				
AM6	3900	HEAD	06/26/2025	21.1	20.0	0.10	1062	7682	1683	6.840	68.700	68.400	-0.44%				
AM3	3900	HEAD	06/30/2025	21.1	21.0	0.10	1062	7668	1681	7.160	68.700	71.600	4.22%				
AM8	5250	HEAD	06/17/2025	21.8	20.1	0.05	1066	7499	1465	3.710	77.900	74.200	-4.75%				
AM8	5250	HEAD	07/21/2025	20.8	19.4	0.05	1066	7499	1465	3.970	77.900	79.400	1.93%				
AM8	5600	HEAD	06/17/2025	21.8	20.1	0.05	1066	7499	1465	3.910	81.800	78.200	-4.40%				
AM8	5600	HEAD	07/21/2025	20.8	19.4	0.05	1066	7499	1465	4.150	81.800	83.000	1.47%				
AM8	5750	HEAD	06/17/2025	21.8	20.1	0.05	1066	7499	1465	3.820	80.700	76.400	-5.33%				
AM8	5750	HEAD	07/21/2025	20.8	19.4	0.05	1066	7499	1465	3.860	80.700	77.200	-4.34%				
AM8	5850	HEAD	06/17/2025	21.8	20.1	0.05	1066	7499	1465	3.900	77.400	76.000	0.78%				
AM8	5850	HEAD	07/21/2025	20.8	19.4	0.05	1066	7499	1465	3.850	77.400	77.000	-0.52%				
AM2	6500	HEAD	07/01/2025	21.3	20.7	0.025	1019	3949	1684	7.330	300.000	293.200	-2.27%	32.5	1340	1300	-2.99%

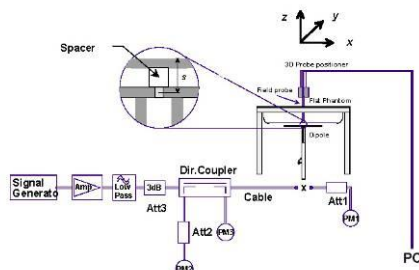


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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9.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

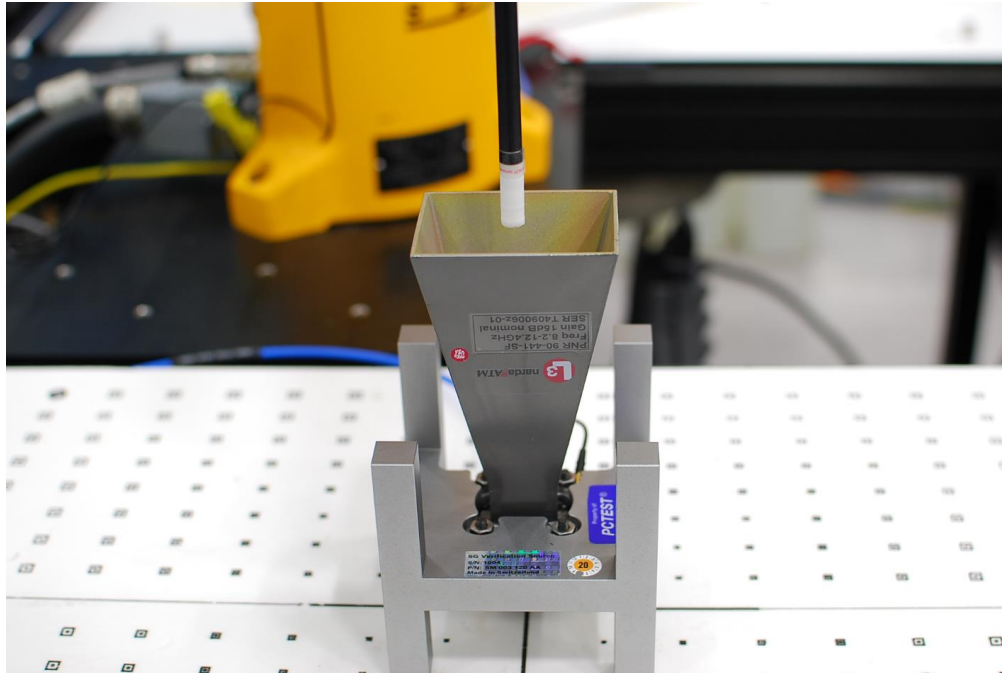


Figure 9-3
System Verification Setup Photo

Table 9-3
10 GHz Verification Results

System Verification												
System	Frequency (GHz)	Date	Source S/N	DAE S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
							Measured	Target		Measured	Target	
AM5	10	06/30/2025	1006	1402	9407	93.3	56.50	57.90	-0.106	56.70	58.10	-0.106
AM5	10	08/07/2025	1006	1402	9407	93.3	54.40	57.90	-0.271	54.50	58.10	-0.278

Note: A 10 mm distance spacing was used from the reference horn antenna aperture to the probe element.

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10 SAR DATA SUMMARY

10.1 UMTS 850 Standalone SAR

Table 10-1 Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio	Plot #
Body	UMTS 850	RMC	1	WRR04	1:1	0.00	826.40	4132	24.00	23.11	Back	5	0.781	0.448	1.227	0.958	0.550	0.599	23.50	0.840	0.525	
Body	UMTS 850	RMC	1	WRR04	1:1	0.02	836.60	4183	24.00	23.01	Back	5	0.793	0.453	1.256	0.996	0.569	0.623	23.50	0.870	0.544	
Body	UMTS 850	RMC	1	WRR04	1:1	0.01	846.60	4233	24.00	23.04	Back	5	0.920	0.521	1.247	1.147	0.650	0.717	23.50	1.000	0.625	A1
Body	UMTS 850	RMC	1	WRR04	1:1	-0.16	826.40	4132	24.00	23.11	Top	5	0.010	0.007	1.227	0.012	0.009	0.008	23.50	0.010	0.006	
Body	UMTS 850	RMC	1	WRR04	1:1	-0.07	826.40	4132	24.00	23.11	Bottom	5	0.484	0.255	1.227	0.606	0.313	0.379	23.50	0.530	0.331	
Body	UMTS 850	RMC	1	WRR04	1:1	-0.09	826.40	4132	24.00	23.11	Right	5	0.045	0.030	1.227	0.055	0.037	0.034	23.50	0.050	0.031	
Body	UMTS 850	RMC	1	WRR04	1:1	0.04	826.40	4132	24.00	23.11	Left	5	0.210	0.132	1.227	0.258	0.162	0.161	23.50	0.220	0.138	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-2 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #
Body	UMTS 850	RMC	3	WRR04	1:1	-0.01	826.40	4132	23.60	22.75	Back	5	0.802	0.471	1.216	0.975	0.573	0.609	
Body	UMTS 850	RMC	3	WRR04	1:1	-0.03	836.60	4183	23.60	22.79	Back	5	0.809	0.471	1.205	0.975	0.568	0.609	
Body	UMTS 850	RMC	3	WRR04	1:1	0.01	846.60	4233	23.60	22.72	Back	5	0.809	0.468	1.225	0.991	0.573	0.619	
Body	UMTS 850	RMC	3	WRR04	1:1	-0.04	836.60	4183	23.60	22.79	Top	5	0.502	0.259	1.205	0.605	0.312	0.378	
Body	UMTS 850	RMC	3	WRR04	1:1	-0.11	836.60	4183	23.60	22.79	Bottom	5	0.014	0.009	1.205	0.017	0.011	0.011	
Body	UMTS 850	RMC	3	WRR04	1:1	0.02	836.60	4183	23.60	22.79	Right	5	0.210	0.138	1.205	0.253	0.166	0.158	
Body	UMTS 850	RMC	3	WRR04	1:1	0.06	836.60	4183	23.60	22.79	Left	5	0.042	0.027	1.205	0.051	0.033	0.032	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body							
Spatial Peak												1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 1 gram							

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	UMTS 1750	RMC	1	9QJH0	1:1	-0.05	1732.40	1412	21.80	21.14	Back	5	0.567	0.302	1.164	0.660	0.352	0.413	21.80	0.650	0.406	
Body	UMTS 1750	RMC	1	9QJH0	1:1	-0.10	1732.40	1412	21.80	21.14	Top	5	0.006	0.003	1.164	0.007	0.003	0.004	21.80	0.010	0.006	
Body	UMTS 1750	RMC	1	9QJH0	1:1	0.01	1712.40	1312	21.80	21.12	Bottom	5	0.665	0.334	1.169	0.777	0.390	0.486	21.80	0.760	0.475	
Body	UMTS 1750	RMC	1	9QJH0	1:1	0.00	1732.40	1412	21.80	21.14	Bottom	5	0.739	0.369	1.164	0.860	0.430	0.538	21.80	0.850	0.531	
Body	UMTS 1750	RMC	1	9QJH0	1:1	0.01	1752.60	1513	21.80	20.98	Bottom	5	0.841	0.421	1.208	1.016	0.509	0.635	21.80	1.000	0.625	
Body	UMTS 1750	RMC	1	9QJH0	1:1	-0.05	1732.40	1412	21.80	21.14	Right	5	0.013	0.008	1.164	0.015	0.009	0.009	21.80	0.010	0.006	
Body	UMTS 1750	RMC	1	9QJH0	1:1	-0.11	1732.40	1412	21.80	21.14	Left	5	0.080	0.044	1.164	0.093	0.051	0.058	21.80	0.090	0.056	
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 10-4 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #
Body	UMTS 1750	RMC	2b	9QJH0	1:1	-0.02	1712.40	1312	20.30	19.79	Back	5	0.808	0.384	1.125	0.909	0.432	0.568	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	-0.01	1732.40	1412	20.30	19.72	Back	5	0.805	0.382	1.143	0.920	0.437	0.575	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.00	1752.60	1513	20.30	19.75	Back	5	0.782	0.371	1.135	0.888	0.421	0.555	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.01	1712.40	1312	20.30	19.79	Top	5	0.010	0.005	1.125	0.011	0.006	0.007	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.00	1712.40	1312	20.30	19.79	Bottom	5	0.867	0.423	1.125	0.975	0.476	0.609	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.00	1732.40	1412	20.30	19.72	Bottom	5	0.850	0.413	1.143	0.972	0.472	0.608	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.00	1752.60	1513	20.30	19.75	Bottom	5	0.833	0.403	1.135	0.945	0.457	0.591	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.02	1712.40	1312	20.30	19.79	Right	5	0.071	0.039	1.125	0.080	0.044	0.050	
Body	UMTS 1750	RMC	2b	9QJH0	1:1	0.01	1712.40	1312	20.30	19.79	Left	5	0.009	0.005	1.125	0.010	0.006	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body							
Spatial Peak												1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 1 gram							

Table 10-5 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1750	RMC	3	495TL	1:1	-0.04	1732.40	1412	17.80	17.38	Back	5	0.454	0.237	1.102	0.500	0.261	0.313	17.20	0.430	0.269	
Body	UMTS 1750	RMC	3	495TL	1:1	0.00	1712.40	1312	17.80	17.36	Top	5	1.040	0.513	1.107	1.151	0.568	0.719	17.20	1.000	0.625	A2
Body	UMTS 1750	RMC	3	495TL	1:1	-0.00	1712.40	1312	17.80	17.36	Top	5	0.906	0.512	1.107	1.151	0.567	0.719	17.20	1.000	0.625	
Body	UMTS 1750	RMC	3	495TL	1:1	-0.01	1732.40	1412	17.80	17.38	Top	5	0.946	0.466	1.102	1.042	0.514	0.651	17.20	0.910	0.569	
Body	UMTS 1750	RMC	3	495TL	1:1	0.00	1752.60	1513	17.80	17.20	Top	5	0.861	0.422	1.148	0.988	0.484	0.618	17.20	0.860	0.538	
Body	UMTS 1750	RMC	3	495TL	1:1	0.09	1732.40	1412	17.80	17.38	Bottom	5	0.020	0.012	1.102	0.022	0.013	0.014	17.20	0.020	0.013	
Body	UMTS 1750	RMC	3	495TL	1:1	-0.03	1732.40	1412	17.80	17.38	Right	5	0.180	0.103	1.102	0.198	0.114	0.124	17.20	0.170	0.106	
Body	UMTS 1750	RMC	3	495TL	1:1	0.01	1732.40	1412	17.80	17.38	Left	5	0.001	0.000	1.102	0.001	0.000	0.001	17.20	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Note: Blue entry represents variability measurement

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Table 10-6 Antenna 4b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1750	RMC	4b	495TL	1:1	-0.09	1732.40	1412	18.30	17.50	Back	5	0.472	0.231	1.202	0.567	0.278	0.354	
Body	UMTS 1750	RMC	4b	495TL	1:1	-0.07	1712.40	1312	18.30	17.45	Top	5	0.646	0.319	1.216	0.786	0.388	0.491	
Body	UMTS 1750	RMC	4b	495TL	1:1	-0.04	1732.40	1412	18.30	17.50	Top	5	0.656	0.323	1.202	0.789	0.388	0.493	
Body	UMTS 1750	RMC	4b	495TL	1:1	-0.04	1752.60	1512	18.30	17.44	Top	5	0.691	0.339	1.219	0.842	0.413	0.526	
Body	UMTS 1750	RMC	4b	495TL	1:1	0.05	1732.40	1412	18.30	17.50	Bottom	5	0.005	0.003	1.202	0.006	0.004	0.004	
Body	UMTS 1750	RMC	4b	495TL	1:1	0.07	1732.40	1412	18.30	17.50	Right	5	0.009	0.005	1.202	0.011	0.006	0.007	
Body	UMTS 1750	RMC	4b	495TL	1:1	-0.05	1732.40	1412	18.30	17.50	Left	5	0.053	0.030	1.202	0.064	0.036	0.040	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1900	RMC	1	9QJHD	1:1	-0.01	1852.40	9262	18.80	18.09	Back	5	0.528	0.270	1.178	0.622	0.318	0.389	18.10	0.530	0.331	
Body	UMTS 1900	RMC	1	9QJHD	1:1	0.05	1852.40	9262	18.80	18.09	Top	5	0.000	0.000	1.178	0.000	0.000	0.000	18.10	0.000	0.000	
Body	UMTS 1900	RMC	1	9QJHD	1:1	0.10	1852.40	9262	18.80	18.09	Bottom	5	0.850	0.420	1.178	1.001	0.495	0.626	18.10	0.850	0.531	
Body	UMTS 1900	RMC	1	9QJHD	1:1	-0.04	1880.00	9400	18.80	17.94	Bottom	5	0.873	0.429	1.219	1.064	0.523	0.665	18.10	0.900	0.568	
Body	UMTS 1900	RMC	1	9QJHD	1:1	-0.01	1907.60	9538	18.80	17.90	Bottom	5	0.961	0.470	1.230	1.182	0.578	0.739	18.10	1.000	0.625	
Body	UMTS 1900	RMC	1	9QJHD	1:1	0.08	1852.40	9262	18.80	18.09	Right	5	0.007	0.004	1.178	0.008	0.005	0.005	18.10	0.010	0.006	
Body	UMTS 1900	RMC	1	9QJHD	1:1	-0.01	1852.40	9262	18.80	18.09	Left	5	0.029	0.018	1.178	0.034	0.021	0.021	18.10	0.030	0.019	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 10-8 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	0.01	1852.40	9262	20.50	20.33	Back	5	0.931	0.448	1.040	0.968	0.466	0.605	19.80	0.820	0.513	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	-0.01	1880.00	9400	20.50	20.19	Back	5	1.020	0.486	1.074	1.095	0.522	0.684	19.80	0.920	0.575	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	-0.01	1907.60	9538	20.50	20.26	Back	5	1.060	0.505	1.057	1.120	0.534	0.700	19.80	0.950	0.594	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	0.21	1852.40	9262	20.50	20.33	Top	5	0.010	0.005	1.040	0.010	0.005	0.006	19.80	0.010	0.006	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	0.00	1852.40	9262	20.50	20.33	Bottom	5	0.943	0.450	1.040	0.981	0.468	0.613	19.80	0.830	0.519	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	-0.01	1880.00	9400	20.50	20.19	Bottom	5	1.030	0.485	1.074	1.106	0.521	0.691	19.80	0.930	0.581	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	0.01	1907.60	9538	20.50	20.26	Bottom	5	1.054	0.494	1.057	1.168	0.524	0.727	19.80	0.960	0.613	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	0.01	1907.60	9538	20.50	20.26	Bottom	5	1.120	0.538	1.057	1.184	0.569	0.740	19.80	1.000	0.625	A3
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	0.02	1852.40	9262	20.50	20.33	Right	5	0.070	0.039	1.040	0.073	0.041	0.046	19.80	0.060	0.038	
Body	UMTS 1900	RMC	2b	LHPVJ	1:1	-0.18	1852.40	9262	20.50	20.33	Left	5	0.011	0.007	1.040	0.011	0.007	0.007	19.80	0.010	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

Note: Blue entry represents variability measurement

Table 10-9 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1900	RMC	3	9QJHD	1:1	-0.02	1852.40	9262	18.30	17.71	Back	5	0.573	0.274	1.146	0.657	0.314	0.411	17.60	0.560	0.350	
Body	UMTS 1900	RMC	3	9QJHD	1:1	0.00	1852.40	9262	18.30	17.71	Top	5	0.967	0.472	1.146	1.108	0.541	0.693	17.60	0.940	0.588	
Body	UMTS 1900	RMC	3	9QJHD	1:1	0.00	1880.00	9400	18.30	17.52	Top	5	0.945	0.462	1.197	1.131	0.553	0.707	17.60	0.960	0.600	
Body	UMTS 1900	RMC	3	9QJHD	1:1	0.00	1907.60	9538	18.30	17.31	Top	5	0.939	0.462	1.256	1.179	0.580	0.737	17.60	1.000	0.625	
Body	UMTS 1900	RMC	3	9QJHD	1:1	-0.07	1852.40	9262	18.30	17.71	Bottom	5	0.018	0.010	1.146	0.021	0.011	0.013	17.60	0.020	0.013	
Body	UMTS 1900	RMC	3	9QJHD	1:1	-0.02	1852.40	9262	18.30	17.71	Right	5	0.172	0.096	1.146	0.197	0.110	0.123	17.60	0.170	0.106	
Body	UMTS 1900	RMC	3	9QJHD	1:1	0.07	1852.40	9262	18.30	17.71	Left	5	0.000	0.000	1.146	0.000	0.000	0.000	17.60	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									

Table 10-10 Antenna 4b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.02	1852.40	9262	19.70	19.51	Back	5	1.020	0.488	1.045	1.066	0.510	0.666	19.00	0.910	0.569	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.00	1880.00	9400	19.70	19.42	Back	5	0.981	0.468	1.067	1.047	0.499	0.654	19.00	0.890	0.556	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.00	1907.60	9538	19.70	19.20	Back	5	0.930	0.443	1.122	1.043	0.497	0.652	19.00	0.890	0.556	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	-0.02	1852.40	9262	19.70	19.51	Top	5	1.100	0.533	1.045	1.150	0.557	0.719	19.00	0.980	0.613	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.00	1880.00	9400	19.70	19.42	Top	5	1.100	0.528	1.067	1.174	0.563	0.734	19.00	1.000	0.625	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	-0.04	1907.60	9538	19.70	19.20	Top	5	1.050	0.505	1.122	1.178	0.567	0.736	19.00	1.000	0.625	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.07	1852.40	9262	19.70	19.51	Bottom	5	0.016	0.008	1.045	0.017	0.008	0.011	19.00	0.010	0.006	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.02	1852.40	9262	19.70	19.51	Right	5	0.013	0.007	1.045	0.014	0.007	0.009	19.00	0.010	0.006	
Body	UMTS 1900	RMC	4b	TQCW4	1:1	0.00	1852.40	9262	19.70	19.51	Left	5	0.041	0.024	1.045	0.043	0.025	0.027	19.00	0.040	0.025	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																						

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Technical Manager

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10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	-0.01	680.50	133297	0.0	24.00	23.43	1	50	Back	5	0.529	0.327	1.140	0.603	0.373	0.377	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.01	680.50	133297	0.3	23.70	23.38	50	25	Back	5	0.475	0.294	1.076	0.511	0.316	0.325	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.03	680.50	133297	0.0	24.00	23.43	1	50	Top	5	0.030	0.022	1.140	0.034	0.025	0.021	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.07	680.50	133297	0.3	23.70	23.38	50	25	Top	5	0.024	0.019	1.076	0.026	0.020	0.016	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.00	680.50	133297	0.0	24.00	23.43	1	50	Bottom	5	0.500	0.282	1.140	0.570	0.321	0.356	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.01	680.50	133297	0.3	23.70	23.38	50	25	Bottom	5	0.453	0.256	1.076	0.487	0.275	0.304	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.13	680.50	133297	0.0	24.00	23.43	1	50	Right	5	0.027	0.019	1.140	0.031	0.022	0.019	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.04	680.50	133297	0.3	23.70	23.38	50	25	Right	5	0.023	0.017	1.076	0.025	0.018	0.016	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.01	680.50	133297	0.0	24.00	23.43	1	50	Left	5	0.200	0.120	1.140	0.228	0.137	0.143	
Body	LTE Band 71	20	QPSK	1	LK61W	1:1	0.05	680.50	133297	0.3	23.70	23.38	50	25	Left	5	0.190	0.116	1.076	0.204	0.125	0.128	
ANS/IEEE C63.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 10-12 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	-0.02	680.50	133297	0.0	23.30	22.71	1	50	Back	5	0.854	0.476	1.315	1.123	0.626	0.702	23.40	1.000	0.625	A4
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.00	680.50	133297	0.3	23.30	22.76	50	0	Back	5	0.861	0.482	1.300	1.119	0.627	0.699	23.40	1.000	0.625	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	-0.01	680.50	133297	0.0	23.30	22.70	100	0	Back	5	0.850	0.477	1.318	1.120	0.629	0.700	23.40	1.000	0.625	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.01	680.50	133297	0.0	23.30	22.71	1	50	Top	5	0.838	0.343	1.315	0.839	0.451	0.524	23.40	0.750	0.469	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.01	680.50	133297	0.3	23.30	22.76	50	0	Top	5	0.837	0.345	1.300	0.822	0.443	0.514	23.40	0.750	0.466	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.02	680.50	133297	0.0	23.30	22.70	100	0	Top	5	0.850	0.333	1.318	0.817	0.439	0.531	23.40	0.750	0.456	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.06	680.50	133297	0.0	23.30	22.71	1	50	Bottom	5	0.812	0.408	1.315	0.816	0.411	0.510	23.40	0.810	0.466	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.04	680.50	133297	0.3	23.30	22.76	50	0	Bottom	5	0.808	0.406	1.300	0.806	0.408	0.504	23.40	0.810	0.466	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.01	680.50	133297	0.0	23.30	22.71	1	50	Right	5	0.389	0.108	1.315	0.249	0.142	0.156	23.40	0.240	0.138	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	-0.02	680.50	133297	0.0	23.30	22.76	50	0	Right	5	0.208	0.119	1.300	0.270	0.155	0.169	23.40	0.240	0.150	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.08	680.50	133297	0.0	23.30	22.71	1	50	Left	5	0.001	0.000	1.315	0.001	0.001	0.001	23.40	0.000	0.000	
Body	LTE Band 71	20	QPSK	3	LK61W	1:1	0.09	680.50	133297	0.0	23.30	22.76	50	0	Left	5	0.032	0.013	1.300	0.042	0.017	0.026	23.40	0.040	0.025	
ANS/IEEE C63.1 1992 - SAFETY LIMIT																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	0.01	707.50	23095	0.0	24.00	23.15	1	0	Back	5	0.873	0.505	1.216	1.062	0.609	0.664	23.80	1.000	0.625	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	-0.02	707.50	23095	0.3	23.70	23.11	25	12	Back	5	0.792	0.454	1.146	0.908	0.520	0.568	23.80	0.860	0.538	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	-0.01	707.50	23095	0.3	23.70	22.84	50	0	Back	5	0.798	0.458	1.191	0.950	0.545	0.594	23.80	0.890	0.556	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	0.01	707.50	23095	0.0	24.00	23.15	1	0	Top	5	0.852	0.506	1.216	0.928	0.619	0.678	23.80	0.930	0.619	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	0.02	707.50	23095	0.3	23.70	23.11	25	12	Top	5	0.800	0.495	1.146	0.933	0.517	0.564	23.80	0.920	0.613	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	0.00	707.50	23095	0.0	24.00	23.15	1	0	Bottom	5	0.585	0.319	1.216	0.711	0.388	0.444	23.80	0.670	0.419	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	0.04	707.50	23095	0.3	23.70	23.11	25	12	Bottom	5	0.555	0.290	1.146	0.613	0.355	0.385	23.80	0.580	0.363	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	0.07	707.50	23095	0.0	24.00	23.15	1	0	Right	5	0.029	0.020	1.216	0.035	0.024	0.022	23.80	0.030	0.020	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	-0.16	707.50	23095	0.3	23.70	23.11	25	12	Right	5	0.034	0.024	1.146	0.039	0.028	0.024	23.80	0.040	0.025	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	-0.01	707.50	23095	0.0	24.00	23.15	1	0	Left	5	0.255	0.125	1.216	0.110	0.191	0.194	23.80	0.290	0.181	
Body	LTE Band 12	10	QPSK	1	WRR04	1:1	-0.04	707.50	23095	0.3	23.70	23.11	25	12	Left	5	0.221	0.135	1.146	0.133	0.155	0.158	23.80	0.240	0.150	
ANS/IEEE C63.1 1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-14 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.03	707.50	23095	0.0	24.50	23.28	1	25	Back	5	0.893	0.514	1.324	1.182	0.681	0.739	23.80	1.000	0.625	A5
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.04	707.50	23095	0.0	24.50	23.29	25	0	Back	5	0.865	0.498	1.321	1.143	0.658	0.714	23.80	0.970	0.606	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.01	707.50	23095	0.0	24.50	23.22	50	0	Back	5	0.825	0.505	1.343	1.175	0.678	0.734	23.80	0.990	0.619	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.03	707.50	23095	0.0	24.50	23.28	1	25	Top	5	0.807	0.329	1.324	0.804	0.436	0.503	23.80	0.680	0.423	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	0.01	707.50	23095	0.0	24.50	23.29	25	0	Top	5	0.808	0.329	1.321	0.803	0.435	0.502	23.80	0.680	0.423	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.04	707.50	23095	0.0	24.50	23.22	50	0	Top	5	0.550	0.307	1.343	0.739	0.413	0.482	23.80	0.630	0.394	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.05	707.50	23095	0.0	24.50	23.21	50	0	Bottom	5	0.504	0.030	1.321	0.718	0.012	0.011	23.80	0.020	0.013	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	0.08	707.50	23095	0.0	24.50	23.29	25	0	Bottom	5	0.014	0.009	1.321	0.018	0.012	0.011	23.80	0.020	0.013	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	-0.03	707.50	23095	0.0	24.50	23.28	1	25	Right	5	0.893	0.514	1.324	1.182	0.681	0.739	23.80	1.000	0.625	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	0.02	707.50	23095	0.0	24.50	23.29	25	0	Right	5	0.779	0.176	1.321	0.367	0.232	0.329	23.80	0.310	0.194	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	0.06	707.50	23095	0.0	24.50	23.28	1	25	Left	5	0.028	0.015	1.324	0.029	0.020	0.018	23.80	0.020	0.013	
Body	LTE Band 12	10	QPSK	3	WRR04	1:1	0.18	707.50	23095	0.0	24.50	23.25	1	25	Left	5	0.006	0.017	1.321	0.034	0.022	0.021	23.80	0.030	0.019	
ANSI/IEEE C63-1982 - SAFETY LIMIT																	Body									
Uncontrolled Exposure/General Population																	1.6 mW/g (mW/g averaged over 6 gsm)									

Table 10-16 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	-0.05	782.00	23230	0.0	23.40	22.73	1	49	Back	5	0.944	0.529	1.367	1.102	0.617	0.689	22.80	0.950	0.594	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	-0.02	782.00	23230	0.0	23.40	22.75	25	12	Back	5	0.961	0.540	1.363	1.116	0.627	0.698	22.80	0.960	0.600	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	-0.03	782.00	23230	0.0	23.40	22.82	50	0	Back	5	0.974	0.548	1.397	1.166	0.656	0.729	22.80	1.000	0.635	A5
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	-0.05	782.00	23230	0.0	23.40	22.80	50	0	Back	5	0.954	0.548	1.397	1.165	0.657	0.727	22.80	1.000	0.625	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	-0.05	782.00	23230	0.0	23.40	22.73	1	49	Top	5	0.605	0.307	1.367	0.706	0.338	0.441	22.80	0.610	0.381	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	0.01	782.00	23230	0.0	23.40	22.75	25	12	Top	5	0.638	0.323	1.363	0.717	0.363	0.448	22.80	0.610	0.381	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	0.03	782.00	23230	0.0	23.40	22.73	25	12	Bottom	5	0.015	0.002	1.363	0.017	0.004	0.011	22.80	0.010	0.006	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	-0.07	782.00	23230	0.0	23.40	22.73	1	49	Right	5	0.200	0.125	1.367	0.233	0.139	0.146	22.80	0.200	0.125	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	0.06	782.00	23230	0.0	23.40	22.75	25	12	Right	5	0.210	0.123	1.363	0.244	0.143	0.153	22.80	0.210	0.131	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	0.05	782.00	23230	0.0	23.40	22.73	1	49	Left	5	0.035	0.025	1.367	0.041	0.029	0.026	22.80	0.040	0.025	
Body	LTE Band 13	10	QPSK	3	WRR04	1:1	0.01	782.00	23230	0.0	23.40	22.75	25	12	Left	5	0.033	0.024	1.363	0.038	0.024	0.024	22.80	0.030	0.019	
ANS/IEEE C63.1.1992 - SAFETY LIMIT																										
Spatial Peak																Body										
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)										
																averaged over 1 gram										

Note: Blue entry represents variability measurement

10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.04	793.00	23330	0.0	24.00	23.92	1	49	Back	5	0.817	0.488	1.019	0.813	0.497	0.521	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.02	793.00	23330	0.3	23.70	23.67	25	25	Back	5	0.721	0.432	1.007	0.726	0.435	0.454	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	0.00	793.00	23330	0.3	23.70	23.62	50	0	Back	5	0.725	0.435	1.019	0.739	0.443	0.462	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.07	793.00	23330	0.0	24.00	23.92	1	49	Top	5	0.020	0.013	1.019	0.020	0.013	0.013	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.01	793.00	23330	0.3	23.70	23.67	25	25	Top	5	0.019	0.013	1.007	0.019	0.013	0.012	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.01	793.00	23330	0.0	24.00	23.92	1	49	Bottom	5	0.025	0.024	1.015	0.025	0.024	0.023	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	0.03	793.00	23330	0.3	23.70	23.67	25	25	Bottom	5	0.477	0.251	1.007	0.480	0.253	0.300	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	0.09	793.00	23330	0.0	24.00	23.92	1	49	Right	5	0.034	0.023	1.019	0.035	0.023	0.022	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.18	793.00	23330	0.3	23.70	23.67	25	25	Right	5	0.027	0.017	1.007	0.027	0.017	0.017	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	0.00	793.00	23330	0.0	24.00	23.92	1	49	Left	5	0.286	0.180	1.019	0.291	0.183	0.182	
Body	LTE Band 14	10	QPSK	1	WRR04	1:1	-0.01	793.00	23330	0.3	23.70	23.67	25	25	Left	5	0.260	0.165	1.007	0.262	0.166	0.164	
ANS/IEEE C95.1.1992 - SAFETY LIMIT																							
Spatial Peak																Body							
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)							
																averaged over 1 gram							

Table 10-18 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	-0.03	793.00	23330	0.0	23.40	22.42	1	49	Back	5	0.789	0.450	1.253	0.989	0.564	0.618	23.30	0.960	0.600	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	-0.01	793.00	23330	0.0	23.40	22.60	25	0	Back	5	0.834	0.477	1.262	1.002	0.573	0.626	23.30	0.970	0.606	A7
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	-0.02	793.00	23330	0.0	23.40	22.41	50	0	Back	5	0.819	0.469	1.256	1.029	0.589	0.643	23.30	1.000	0.625	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	-0.02	793.00	23330	0.0	23.40	22.42	1	49	Top	5	0.566	0.281	1.253	0.709	0.352	0.443	23.30	0.900	0.411	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	0.02	793.00	23330	0.0	23.40	22.60	25	0	Top	5	0.627	0.316	1.262	0.754	0.380	0.471	23.30	0.780	0.456	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	-0.11	793.00	23330	0.0	23.40	22.42	1	49	Bottom	5	0.020	0.016	1.253	0.023	0.020	0.016	23.30	0.020	0.013	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	0.04	793.00	23330	0.0	23.40	22.60	25	0	Bottom	5	0.021	0.016	1.262	0.025	0.019	0.026	23.30	0.020	0.013	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	0.12	793.00	23330	0.0	23.40	22.42	1	49	Right	5	0.182	0.110	1.253	0.228	0.138	0.143	23.30	0.220	0.138	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	0.01	793.00	23330	0.0	23.40	22.60	25	0	Right	5	0.044	0.024	1.262	0.053	0.037	0.046	23.30	0.040	0.025	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	0.08	793.00	23330	0.0	23.40	22.42	1	49	Left	5	0.041	0.029	1.253	0.051	0.036	0.050	23.30	0.050	0.031	
Body	LTE Band 14	10	QPSK	3	WRR04	1:1	-0.18	793.00	23330	0.0	23.40	22.60	25	0	Left	5	0.035	0.025	1.262	0.042	0.030	0.026	23.30	0.040	0.025	
ANS/IEEE C63.1.1992 - SAFETY LIMIT																										
Spatial Peak																Body										
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)										
																averaged over 1 gram										

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 26	10	QPSK	1	WRR04	1:1	-0.06	833.50	26740	0.0	24.00	23.09	1	25	Back	5	0.912	0.535	1.233	1.149	0.660	0.718	23.30	0.970	0.606	

Table 10-20 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	0.02	819.00	26740	0.0	23.60	23.02	1	25	Back	5	0.824	0.481	1.143	0.942	0.550	0.589	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	831.50	26865	0.0	23.60	22.82	1	25	Back	5	0.828	0.485	1.197	0.991	0.581	0.619	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	844.00	26990	0.0	23.60	22.75	1	25	Back	5	0.815	0.474	1.216	0.991	0.576	0.616	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.02	819.00	26740	0.0	23.60	22.98	25	0	Back	5	0.819	0.480	1.153	0.944	0.553	0.590	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	831.50	26865	0.0	23.60	22.97	25	0	Back	5	0.819	0.480	1.156	0.947	0.555	0.592	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	844.00	26990	0.0	23.60	22.87	25	25	Bottom	5	0.801	0.465	1.188	0.948	0.550	0.593	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	819.00	26740	0.0	23.60	22.90	50	0	Back	5	0.805	0.473	1.175	0.945	0.556	0.591	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.11	819.00	26740	0.0	23.60	23.02	1	25	Top	5	0.487	0.249	1.143	0.557	0.285	0.348	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	819.00	26740	0.0	23.60	22.98	25	0	Top	5	0.478	0.246	1.153	0.551	0.284	0.344	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	0.20	819.00	26740	0.0	23.60	23.02	1	25	Bottom	5	0.013	0.009	1.143	0.015	0.010	0.009	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	0.00	819.00	26740	0.0	23.60	22.98	25	0	Bottom	5	0.014	0.009	1.153	0.016	0.010	0.010	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	0.05	819.00	26740	0.0	23.60	23.02	1	25	Right	5	0.206	0.130	1.143	0.235	0.149	0.147	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.01	819.00	26740	0.0	23.60	22.98	25	0	Right	5	0.223	0.142	1.153	0.257	0.164	0.161	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	-0.10	819.00	26740	0.0	23.60	23.02	1	25	Left	5	0.037	0.025	1.143	0.042	0.029	0.026	
Body	LTE Band 26	10	QPSK	3	WRR04	1:1	0.00	819.00	26740	0.0	23.60	22.98	25	0	Left	5	0.088	0.025	1.153	0.044	0.029	0.028	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.01	836.50	20525	0.0	24.00	23.17	1	25	Back	5	0.889	0.511	1.211	1.077	0.619	0.673	23.70	1.000	0.625	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.01	836.50	20525	0.3	23.70	23.16	25	12	Back	5	0.891	0.512	1.132	1.009	0.631	0.641	23.40	0.940	0.588	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	0.00	836.50	20525	0.3	23.70	22.90	50	0	Back	5	0.898	0.516	1.202	1.079	0.620	0.674	23.40	1.000	0.625	AB
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	0.00	836.50	20525	0.0	24.00	23.17	1	25	Top	5	0.010	0.007	1.211	0.012	0.008	0.008	23.70	0.010	0.006	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.03	836.50	20525	0.3	23.70	23.16	25	12	Top	5	0.010	0.007	1.132	0.011	0.008	0.007	23.40	0.010	0.006	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.05	836.50	20525	0.0	24.00	23.17	1	25	Bottom	5	0.568	0.289	1.211	0.688	0.350	0.440	23.70	0.440	0.400	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	0.04	836.50	20525	0.3	23.70	23.16	25	12	Bottom	5	0.562	0.281	1.132	0.625	0.330	0.391	23.40	0.380	0.361	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	0.08	836.50	20525	0.0	24.00	23.17	1	25	Right	5	0.044	0.029	1.211	0.053	0.035	0.033	23.70	0.050	0.031	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.02	836.50	20525	0.3	23.70	23.16	25	12	Right	5	0.044	0.030	1.132	0.050	0.034	0.031	23.40	0.050	0.031	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.10	836.50	20525	0.0	24.00	23.17	1	25	Left	5	0.227	0.142	1.211	0.275	0.172	0.172	23.70	0.250	0.156	
Body	LTE Band 5	10	QPSK	1	9QOH0	1:1	-0.05	836.50	20525	0.3	23.70	23.16	25	12	Left	5	0.225	0.144	1.132	0.255	0.163	0.159	23.40	0.240	0.150	
Body	LTE Band 5	5	QPSK	1	9QOH0	1:1	0.01	829.10	20453	0.3	23.70	22.68	50	0	Back	5	0.826	0.476	1.265	1.045	0.602	0.653	23.40	0.970	0.606	
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 10-22 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	-0.02	836.50	20525	0.0	23.60	22.77	1	0	Back	5	0.855	0.497	1.211	1.035	0.602	0.647	23.50	0.990	0.619	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.01	836.50	20525	0.0	23.60	22.92	25	0	Back	5	0.945	0.490	1.169	0.988	0.573	0.638	23.50	0.950	0.594	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.01	836.50	20525	0.0	23.60	22.76	50	0	Back	5	0.849	0.493	1.211	1.039	0.598	0.644	23.50	0.990	0.619	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.00	836.50	20525	0.0	23.60	22.77	1	0	Top	5	0.459	0.238	1.211	0.507	0.264	0.317	23.50	0.490	0.285	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.03	836.50	20525	0.0	23.60	22.92	25	0	Top	5	0.426	0.224	1.169	0.488	0.262	0.311	23.50	0.480	0.300	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.05	836.50	20525	0.0	23.60	22.77	1	0	Bottom	5	0.009	0.006	1.211	0.011	0.007	0.007	23.30	0.010	0.006	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.00	836.50	20525	0.0	23.60	22.92	25	0	Bottom	5	0.010	0.006	1.169	0.012	0.007	0.006	23.50	0.010	0.006	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.01	836.50	20525	0.0	23.60	22.77	1	0	Right	5	0.225	0.144	1.211	0.272	0.174	0.170	23.50	0.260	0.163	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.01	836.50	20525	0.0	23.60	22.92	25	0	Right	5	0.230	0.147	1.169	0.269	0.172	0.168	23.50	0.260	0.163	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.00	836.50	20525	0.0	23.60	22.77	1	0	Left	5	0.040	0.027	1.211	0.048	0.033	0.030	23.50	0.050	0.031	
Body	LTE Band 5	10	QPSK	3	WRR04	1:1	0.04	836.50	20525	0.0	23.60	22.92	25	0	Left	5	0.040	0.026	1.169	0.047	0.030	0.029	23.50	0.050	0.031	
Body	LTE Band 5	6	QPSK	3	WRR04	1:1	0.00	836.50	20525	0.0	23.60	22.91	1	0	Back	5	0.891	0.517	1.172	1.044	0.606	0.653	23.30	1.000	0.625	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	0.00	1720.00	113072	0.0	21.80	20.70	1	50	Back	5	0.451	0.245	1.289	0.581	0.316	0.363	21.10	0.480	0.306	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.01	1720.00	113072	0.0	21.80	20.74	50	0	Back	1	0.455	0.249	1.276	0.581	0.318	0.363	21.10	0.480	0.306	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.02	1720.00	113072	0.0	21.80	20.70	1	50	Top	5	0.511	0.267	1.289	0.611	0.009	0.009	21.10	0.510	0.006	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	0.03	1720.00	113072	0.0	21.80	20.74	50	0	Top	5	0.451	0.256	1.276	0.581	0.008	0.009	21.10	0.510	0.006	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.05	1720.00	113072	0.0	21.80	20.70	1	50	Bottom	5	0.525	0.264	1.289	0.676	0.340	0.423	21.10	0.570	0.356	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.06	1720.00	113072	0.0	21.80	20.70	1	50	Bottom	5	0.497	0.256	1.334	0.647	0.563	0.741	21.10	0.750	0.484	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.07	1720.00	113072	0.0	21.80	20.66	50	0	Bottom	5	0.443	0.246	1.334	0.543	0.380	0.443	21.10	0.520	0.344	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	0.01	1720.00	113072	0.0	21.80	20.74	50	0	Bottom	5	0.511	0.258	1.276	0.655	0.329	0.409	21.10	0.530	0.449	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.02	1720.00	113120	0.0	21.80	20.74	50	0	Bottom	5	0.443	0.246	1.334	0.543	0.380	0.443	21.10	0.520	0.344	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	0.02	1720.00	113172	0.0	21.80	20.58	50	0	Bottom	5	0.503	0.441	1.324	1.193	0.584	0.746	21.10	0.900	0.625	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	0.00	1720.00	113072	0.0	21.80	20.62	100	0	Bottom	5	0.469	0.324	1.312	0.865	0.425	0.541	21.10	0.730	0.456	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.01	1720.00	113072	0.0	21.80	20.70	50	0	Left	5	0.469	0.324	1.312	0.865	0.425	0.541	21.10	0.730	0.456	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.06	1720.00	113072	0.0	21.80	20.74	50	0	Right	5	0.511	0.009	1.276	0.619	0.011	0.012	21.10	0.020	0.013	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	-0.18	1720.00	113072	0.0	21.80	20.70	1	50	Left	5	0.080	0.045	1.289	0.103	0.058	0.064	21.10	0.020	0.056	
Body	LTE Band 66	20	QPSK	1	4VC20	1:1	0.01	1720.00	113072	0.0	21.80	20.74	50	0	Left	5	0.084	0.046	1.276	0.109	0.067	0.067	21.10	0.020	0.056	
ANSI/IEEE C95.1-1982 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (1g SAR) averaged over 1 g-mm										
Unrestricted Exposure/General Population																										

Table 10-24 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.01	1720.00	132072	0.0	20.30	19.83	1	50	Back	5	0.797	0.379	1.114	0.888	0.422	0.555	19.60	0.750	0.469	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.01	1745.00	132322	0.0	20.30	19.74	1	50	Back	5	0.812	0.393	1.138	0.924	0.436	0.578	19.60	0.750	0.494	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.01	1720.00	132572	0.0	20.30	19.41	1	50	Back	5	0.769	0.362	1.227	0.944	0.444	0.590	19.60	0.800	0.500	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.00	1720.00	132072	0.0	20.30	19.81	50	0	Back	5	0.817	0.386	1.135	0.914	0.432	0.571	19.60	0.780	0.488	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.00	1745.00	132322	0.0	20.30	19.69	50	0	Back	5	0.799	0.377	1.151	0.920	0.434	0.575	19.60	0.780	0.488	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.01	1720.00	132572	0.0	20.30	19.59	50	0	Back	5	0.777	0.369	1.229	0.915	0.435	0.573	19.60	0.780	0.488	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.00	1720.00	132072	0.0	20.30	19.80	100	0	Back	5	0.807	0.385	1.122	0.905	0.432	0.566	19.60	0.770	0.481	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.05	1720.00	132072	0.0	20.30	19.83	1	50	Top	5	0.008	0.004	1.114	0.009	0.004	0.006	19.60	0.010	0.006	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.05	1720.00	132072	0.0	20.30	19.80	50	0	Top	5	0.008	0.004	1.129	0.009	0.004	0.006	19.60	0.010	0.006	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.01	1720.00	132072	0.0	20.30	19.81	1	50	Bottom	5	0.939	0.452	1.114	1.035	0.504	0.647	19.60	0.880	0.550	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.01	1745.00	132322	0.0	20.30	19.74	1	50	Bottom	5	0.973	0.472	1.138	1.107	0.537	0.692	19.60	0.940	0.588	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.01	1720.00	132322	0.0	20.30	19.41	1	50	Bottom	5	0.869	0.420	1.227	1.177	0.517	0.726	19.60	1.000	0.623	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.03	1720.00	132072	0.0	20.30	19.81	50	0	Bottom	5	0.926	0.470	1.119	1.081	0.526	0.676	19.60	0.920	0.575	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.01	1745.00	132322	0.0	20.30	19.69	50	0	Bottom	5	0.983	0.476	1.111	1.131	0.548	0.707	19.60	0.960	0.600	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.01	1720.00	132322	0.0	20.30	19.59	50	0	Bottom	5	0.963	0.468	1.178	1.131	0.547	0.701	19.60	0.950	0.594	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.02	1720.00	132072	0.0	20.30	19.80	100	0	Bottom	5	0.969	0.471	1.122	1.087	0.528	0.679	19.60	0.920	0.575	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.02	1720.00	132072	0.0	20.30	19.81	1	50	Right	5	0.009	0.005	1.114	0.110	0.061	0.069	19.60	0.090	0.056	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	-0.05	1720.00	132072	0.0	20.30	19.81	50	0	Right	5	0.102	0.057	1.129	0.114	0.064	0.071	19.60	0.100	0.063	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.02	1720.00	132072	0.0	20.30	19.81	1	50	Left	5	0.009	0.005	1.114	0.010	0.006	0.006	19.60	0.010	0.006	
Body	LTE Band 66	20	QPSK	2b	495TL	1:1	0.09	1720.00	132072	0.0	20.30	19.81	50	0	Left	5	0.008	0.004	1.129	0.009	0.004	0.006	19.60	0.010	0.006	
ANSI/IEEE C63.11-1993 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-25 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 66	20	QPSK	3	495TL	1:1	-0.01	1720.00	132072	0.0	17.80	17.39	1	50	Back	5	0.498	0.228	1.099	0.547	0.284	0.342	17.30	0.480	0.300	A10
Body	LTE Band 66	20	QPSK	3	495TL	1:1	-0.02	1720.00	132072	0.0	17.80	17.39	50	0	Back	5	0.511	0.265	1.099	0.562	0.291	0.351	17.30	0.480	0.306	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.03	1720.00	132072	0.0	17.80	17.39	1	50	Top	5	0.947	0.466	1.099	1.041	0.512	0.651	17.30	0.910	0.569	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.00	1745.00	132322	0.0	17.80	17.19	1	50	Top	5	0.858	0.409	1.151	0.962	0.471	0.601	17.30	0.840	0.525	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	-0.04	1770.00	132572	0.0	17.80	17.28	1	50	Top	5	0.863	0.420	1.127	0.947	0.361	0.467	17.30	0.650	0.406	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.02	1720.00	132072	0.0	17.80	17.39	50	0	Top	5	1.040	0.511	1.099	1.114	0.562	0.714	17.30	1.000	0.625	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.02	1745.00	132322	0.0	17.80	17.32	50	0	Top	5	0.801	0.390	1.117	0.895	0.436	0.559	17.30	0.780	0.488	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.02	1770.00	132572	0.0	17.80	17.22	100	0	Top	5	0.708	0.343	1.143	0.809	0.392	0.506	17.30	0.710	0.444	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.00	1720.00	132072	0.0	17.80	17.37	100	0	Top	5	0.964	0.473	1.104	1.064	0.522	0.665	17.30	0.930	0.581	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.06	1720.00	132072	0.0	17.80	17.39	1	50	Bottom	5	0.007	0.003	1.099	0.008	0.003	0.005	17.30	0.010	0.006	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.04	1720.00	132072	0.0	17.80	17.39	50	0	Bottom	5	0.007	0.004	1.099	0.008	0.004	0.005	17.30	0.010	0.006	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.01	1720.00	132072	0.0	17.80	17.39	1	50	Right	5	0.242	0.113	1.099	0.266	0.146	0.186	17.30	0.230	0.144	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.03	1720.00	132072	0.0	17.80	17.39	50	0	Right	5	0.249	0.128	1.099	0.274	0.152	0.211	17.30	0.240	0.150	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.02	1720.00	132072	0.0	17.80	17.39	1	50	Left	5	0.035	0.020	1.099	0.038	0.022	0.024	17.30	0.030	0.019	
Body	LTE Band 66	20	QPSK	3	495TL	1:1	0.03	1720.00	132072	0.0	17.80	17.39	50	0	Left	5	0.042	0.024	1.099	0.046	0.026	0.029	17.30	0.040	0.025	
ANSI/IEEE C63.11-1993 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)									averaged over 1 gram	
Uncontrolled Exposure/General Population																										

Table 10-26 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	-0.02	1720.00	132072	0.0	18.30	17.81	1	50	Back	5	0.543	0.261	1.119	0.608	0.292	0.390	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	-0.02	1720.00	132072	0.0	18.30	17.81	50	0	Back	5	0.528	0.254	1.119	0.591	0.284	0.369	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.02	1720.00	132072	0.0	18.30	17.81	1	50	Top	5	0.766	0.370	1.119	0.857	0.414	0.536	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.01	1745.00	132322	0.0	18.30	17.67	1	50	Top	5	0.833	0.404	1.156	0.963	0.467	0.602	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.01	1720.00	132572	0.0	18.30	17.52	1	50	Top	5	0.797	0.385	1.197	0.954	0.461	0.596	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	-0.01	1720.00	132072	0.0	18.30	17.81	50	0	Top	5	0.765	0.370	1.119	0.856	0.414	0.535	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	-0.02	1745.00	132322	0.0	18.30	17.72	50	25	Top	5	0.818	0.396	1.143	0.935	0.453	0.584	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.00	1720.00	132572	0.0	18.30	17.71	50	50	Top	5	0.817	0.394	1.146	0.936	0.452	0.585	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	-0.01	1720.00	132072	0.0	18.30	17.76	100	0	Top	5	0.776	0.375	1.132	0.878	0.425	0.549	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.04	1720.00	132072	0.0	18.30	17.81	1	50	Bottom	5	0.004	0.002	1.119	0.004	0.002	0.003	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.02	1720.00	132072	0.0	18.30	17.81	50	0	Bottom	5	0.003	0.003	1.119	0.003	0.002	0.003	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.02	1720.00	132072	0.0	18.30	17.81	1	50	Right	5	0.011	0.006	1.119	0.012	0.007	0.008	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.03	1720.00	132072	0.0	18.30	17.81	50	0	Right	5	0.010	0.006	1.119	0.011	0.007	0.007	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	0.06	1720.00	132072	0.0	18.30	17.81	1	50	Left	5	0.059	0.033	1.119	0.066	0.037	0.041	
Body	LTE Band 66	20	QPSK	4b	495TL	1:1	-0.05	1720.00	132072	0.0	18.30	17.81	50	0	Left	5	0.055	0.031	1.119	0.062	0.035	0.039	
ANS/IEEE CSF-1980 SAFETY LIMIT																							
Spatial Peak																							
Uncontrolled Exposure/General Population																							
																	1.6 W/kg (mW/g)						
																	averaged over 1 gram						

Table 10-28 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.03	1860.00	26140	0.0	20.50	20.35	1	50	Back	5	0.803	0.389	1.035	0.831	0.403	0.519	20.10	0.740	0.463	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.04	1882.50	26365	0.0	20.50	20.13	1	50	Back	5	0.876	0.419	1.089	0.953	0.456	0.596	20.10	0.850	0.531	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.00	1905.00	26590	0.0	20.50	20.07	1	50	Back	5	0.933	0.446	1.104	1.039	0.491	0.644	20.10	0.920	0.575	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.06	1860.00	26140	0.0	20.50	20.31	50	0	Back	5	0.836	0.399	1.045	0.863	0.417	0.539	20.10	0.770	0.481	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.01	1882.50	26365	0.0	20.50	20.17	50	0	Back	5	0.899	0.431	1.079	0.970	0.465	0.606	20.10	0.870	0.544	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.07	1905.00	26590	0.0	20.50	20.28	50	0	Back	5	0.948	0.458	1.096	1.050	0.502	0.655	20.10	0.940	0.588	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.05	1860.00	26140	0.0	20.50	20.29	100	0	Back	5	0.885	0.425	1.050	0.929	0.446	0.581	20.10	0.830	0.519	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.20	1860.00	26140	0.0	20.50	20.35	1	50	Top	5	0.909	0.404	1.035	0.909	0.404	0.606	20.10	0.910	0.606	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.01	1860.00	26140	0.0	20.50	20.31	50	0	Top	5	0.909	0.405	1.045	0.909	0.405	0.606	20.10	0.910	0.606	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.00	1860.00	26140	0.0	20.50	20.35	1	50	Bottom	5	0.903	0.433	1.035	0.935	0.448	0.584	20.10	0.840	0.525	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.00	1882.50	26365	0.0	20.50	20.13	1	50	Bottom	5	0.950	0.456	1.089	1.035	0.497	0.647	20.10	0.930	0.581	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.01	1905.00	26590	0.0	20.50	20.07	1	50	Bottom	5	0.907	0.481	1.054	1.001	0.511	0.668	20.10	0.960	0.613	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.00	1860.00	26140	0.0	20.50	20.31	50	0	Bottom	5	0.901	0.434	1.045	0.944	0.454	0.589	20.10	0.840	0.525	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.03	1882.50	26365	0.0	20.50	20.17	50	0	Bottom	5	0.934	0.447	1.079	1.008	0.482	0.630	20.10	0.900	0.563	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.07	1905.00	26590	0.0	20.50	20.28	50	0	Bottom	5	1.000	0.489	1.096	1.118	0.517	0.689	20.10	1.000	0.625	A11
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.00	1860.00	26140	0.0	20.50	20.29	100	0	Bottom	5	0.931	0.449	1.050	0.978	0.471	0.611	20.10	0.870	0.544	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.17	1860.00	26140	0.0	20.50	20.35	1	50	Right	5	0.963	0.505	1.035	0.905	0.506	0.641	20.10	0.960	0.608	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	-0.04	1860.00	26140	0.0	20.50	20.31	50	0	Right	5	0.861	0.405	1.045	0.866	0.417	0.641	20.10	0.860	0.548	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.03	1860.00	26140	0.0	20.50	20.35	1	50	Left	5	0.911	0.406	1.035	0.911	0.406	0.607	20.10	0.910	0.606	
Body	LTE Band 25	20	QPSK	2b	90JHD	1:1	0.04	1860.00	26140	0.0	20.50	20.31	50	0	Left	5	0.912	0.406	1.045	0.913	0.406	0.607	20.10	0.910	0.606	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-29 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	-0.02	1860.00	26140	0.0	18.30	17.71	1	50	Back	5	0.544	0.261	1.146	0.623	0.299	0.389	17.70	0.540	0.338	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	-0.01	1860.00	26140	0.0	18.30	17.72	50	0	Back	5	0.557	0.267	1.143	0.637	0.305	0.398	17.70	0.550	0.344	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.00	1860.00	26140	0.0	18.30	17.71	1	50	Top	5	0.579	0.475	1.146	1.122	0.544	0.701	17.70	0.970	0.606	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.01	1882.50	26365	0.0	18.30	17.50	1	50	Top	5	0.543	0.461	1.202	1.133	0.554	0.708	17.70	0.980	0.613	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.00	1905.00	26590	0.0	18.30	17.22	1	0	Top	5	0.865	0.453	1.202	1.135	0.555	0.709	17.70	0.990	0.619	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.00	1860.00	26140	0.0	18.30	17.72	50	0	Top	5	0.999	0.684	1.143	1.142	0.553	0.714	17.70	0.990	0.619	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.01	1882.50	26365	0.0	18.30	17.57	50	0	Top	5	0.960	0.468	1.183	1.136	0.554	0.710	17.70	0.990	0.619	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	-0.01	1905.00	26590	0.0	18.30	17.82	50	50	Top	5	0.879	0.451	1.251	1.101	0.540	0.688	17.70	0.960	0.600	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.01	1860.00	26140	0.0	18.30	17.69	100	0	Top	5	1.000	0.486	1.151	1.151	0.559	0.719	17.70	1.000	0.625	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.09	1860.00	26140	0.0	18.30	17.71	1	50	Bottom	5	0.619	0.610	1.146	0.622	0.611	0.814	17.70	0.920	0.611	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	-0.06	1860.00	26140	0.0	18.30	17.72	50	0	Bottom	5	0.619	0.610	1.141	0.622	0.611	0.814	17.70	0.920	0.611	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.00	1860.00	26140	0.0	18.30	17.71	1	50	Right	5	0.185	0.101	1.146	0.212	0.116	0.133	17.70	0.180	0.111	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	-0.05	1860.00	26140	0.0	18.30	17.72	50	0	Right	5	0.180	0.098	1.141	0.206	0.112	0.128	17.70	0.180	0.111	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.01	1860.00	26140	0.0	18.30	17.71	1	50	Left	5	0.000	0.000	1.146	0.000	0.000	0.000	17.70	0.000	0.000	
Body	LTE Band 25	20	QPSK	3	90JHD	1:1	0.09	1860.00	26140	0.0	18.30	17.72	50	0	Left	5	0.000	0.000	1.143	0.000	0.000	0.000	17.70	0.000	0.000	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-30 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.03	1860.00	26140	0.0	19.70	19.23	1	50	Back	5	0.804	0.419	1.114	0.962	0.467	0.601	19.10	0.830	0.519	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.00	1882.50	26365	0.0	19.70	18.86	1	50	Back	5	0.808	0.392	1.216	0.983	0.477	0.614	19.10	0.850	0.531	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.01	1905.00	26590	0.0	19.70	18.91	1	50	Back	5	0.750	0.368	1.199	0.911	0.441	0.569	19.10	0.790	0.494	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.01	1860.00	26140	0.0	19.70	19.20	50	0	Back	5	0.863	0.418	1.122	0.968	0.469	0.605	19.10	0.840	0.525	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.07	1882.50	26365	0.0	19.70	19.02	50	0	Back	5	0.800	0.397	1.148	0.941	0.466	0.589	19.10	0.820	0.513	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.01	1905.00	26590	0.0	19.70	18.94	50	0	Back	5	0.785	0.380	1.191	0.935	0.453	0.584	19.10	0.810	0.506	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.01	1860.00	26140	0.0	19.70	19.19	100	0	Back	5	0.867	0.419	1.129	0.970	0.475	0.614	19.10	0.860	0.541	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.00	1860.00	26140	0.0	19.70	19.23	1	50	Top	5	0.795	0.473	1.124	1.077	0.553	0.783	19.10	0.830	0.531	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.01	1882.50	26365	0.0	19.70	18.85	1	50	Top	5	0.947	0.459	1.216	1.152	0.558	0.720	19.10	1.000	0.625	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.01	1860.00	26140	0.0	19.70	19.20	50	0	Top	5	0.860	0.438	1.127	1.050	0.477	0.605	19.10	0.830	0.513	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.02	1860.00	26140	0.0	19.70	19.20	50	0	Top	5	0.972	0.474	1.122	1.091	0.532	0.662	19.10	0.950	0.594	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.01	1882.50	26365	0.0	19.70	19.10	50	0	Top	5	0.958	0.464	1.148	1.100	0.513	0.688	19.10	0.950	0.594	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.01	1905.00	26590	0.0	19.70	18.94	50	0	Top	5	0.784	0.380	1.191	0.934	0.453	0.584	19.10	0.810	0.506	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.01	1860.00	26140	0.0	19.70	19.19	100	0	Top	5	0.889	0.463	1.125	1.113	0.541	0.695	19.10	0.970	0.606	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.08	1860.00	26140	0.0	19.70	19.23	1	50	Bottom	5	0.812	0.006	1.114	0.813	0.007	0.008	19.10	0.100	0.006	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.07	1860.00	26140	0.0	19.70	19.20	50	0	Bottom	5	0.812	0.001	1.122	0.813	0.008	0.008	19.10	0.010	0.006	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.07	1860.00	26140	0.0	19.70	19.23	1	50	Right	5	0.812	0.006	1.114	0.813	0.007	0.008	19.10	0.100	0.006	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	0.03	1860.00	26140	0.0	19.70	19.20	50	0	Right	5	0.812	0.006	1.122	0.813	0.007	0.008	19.10	0.100	0.006	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.07	1860.00	26140	0.0	19.70	19.23	1	50	Left	5	0.812	0.006	1.114	0.813	0.007	0.008	19.10	0.100	0.006	
Body	LTE Band 25	20	QPSK	4b	90JHD	1:1	-0.01	1860.00	26140	0.0	19.70	19.20	50	0	Left	5	0.841	0.023	1.122	0.846	0.026	0.029	19.10	0.040	0.025	
ANSI/IEEE C63.19-2 SAFETY LIMIT																Body										
Uncontrolled Exposure/General Population																1.6 W/kg (1g)										
																averaged over 1 gram										

Table 10-32 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.02	2310.00	27710	0.0	20.50	19.61	1	25	Back	5	0.905	0.413	1.227	1.110	0.507	0.694	19.80	0.940	0.588	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.09	2310.00	27710	0.0	20.50	19.67	25	0	Back	5	0.940	0.429	1.211	1.138	0.520	0.711	19.80	0.970	0.606	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	-0.03	2310.00	27710	0.0	20.50	19.58	50	0	Back	5	0.901	0.424	1.226	1.179	0.536	0.729	19.80	0.940	0.625	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.13	2310.00	27710	0.0	20.50	19.61	1	25	Top	5	0.916	0.406	1.227	1.020	0.607	0.613	19.80	0.920	0.613	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.04	2310.00	27710	0.0	20.50	19.67	25	0	Top	5	0.915	0.406	1.211	1.018	0.607	0.613	19.80	0.920	0.613	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	-0.01	2310.00	27710	0.0	20.50	19.61	1	25	Bottom	5	0.906	0.400	1.227	1.040	0.605	0.588	19.80	0.920	0.588	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.02	2310.00	27710	0.0	20.50	19.67	25	0	Bottom	5	0.795	0.344	1.211	0.963	0.417	0.602	19.80	0.920	0.513	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.00	2310.00	27710	0.0	20.50	19.58	50	0	Bottom	5	0.762	0.337	1.236	0.967	0.417	0.604	19.80	0.920	0.513	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.05	2310.00	27710	0.0	20.50	19.61	1	25	Right	5	0.946	0.406	1.227	1.081	0.644	0.651	19.80	0.970	0.644	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.04	2310.00	27710	0.0	20.50	19.67	25	0	Right	5	0.968	0.407	1.211	1.082	0.645	0.651	19.80	0.970	0.644	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	-0.09	2310.00	27710	0.0	20.50	19.61	1	25	Left	5	0.939	0.401	1.227	1.048	0.626	0.630	19.80	0.940	0.625	
Body	LTE Band 30	10	QPSK	2b	CHPOL	1:1	0.14	2310.00	27710	0.0	20.50	19.67	25	0	Left	5	0.938	0.400	1.211	1.046	0.624	0.629	19.80	0.940	0.625	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																										
Spatial Peak																1.6 W/kg (mW/g)								Body		
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-33 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	-0.08	2310.00	27710	0.0	17.60	17.33	1	0	Back	5	1.020	0.414	1.064	1.075	0.440	0.672	17.10	0.940	0.588	A17
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	-0.02	2310.00	27710	0.0	17.60	17.38	25	0	Back	5	1.020	0.415	1.062	1.073	0.437	0.671	17.10	0.940	0.588	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.05	2310.00	27710	0.0	17.60	17.30	50	0	Back	5	1.070	0.422	1.072	1.147	0.463	0.717	17.10	1.000	0.625	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	-0.01	2310.00	27710	0.0	17.60	17.33	1	0	Top	5	0.901	0.361	1.064	0.950	0.391	0.599	17.10	0.940	0.525	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	-0.02	2310.00	27710	0.0	17.60	17.38	25	0	Top	5	0.927	0.376	1.062	0.975	0.396	0.609	17.10	0.950	0.531	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.01	2310.00	27710	0.0	17.60	17.30	50	0	Top	5	0.907	0.363	1.072	1.015	0.411	0.634	17.10	0.980	0.550	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.04	2310.00	27710	0.0	17.60	17.33	1	0	Bottom	5	0.900	0.360	1.064	0.900	0.400	0.600	17.10	0.900	0.500	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.01	2310.00	27710	0.0	17.60	17.38	25	0	Bottom	5	0.900	0.360	1.062	0.900	0.400	0.600	17.10	0.900	0.500	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.06	2310.00	27710	0.0	17.60	17.38	1	0	Right	5	0.900	0.405	1.064	1.036	0.444	0.666	17.10	0.980	0.566	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.08	2310.00	27710	0.0	17.60	17.38	25	0	Right	5	0.980	0.403	1.062	1.084	0.455	0.653	17.10	1.010	0.644	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.00	2310.00	27710	0.0	17.60	17.33	1	0	Left	5	0.909	0.406	1.064	1.010	0.409	0.606	17.10	0.910	0.506	
Body	LTE Band 30	10	QPSK	3	CHPOL	1:1	0.02	2310.00	27710	0.0	17.60	17.38	25	0	Left	5	0.915	0.407	1.062	1.014	0.407	0.609	17.10	0.910	0.506	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																1.6 W/kg (mW/g)								Body		
Spatial Peak																averaged over 1 gram										
Uncontrolled Exposure/General Population																										

Table 10-34 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.02	2310.00	27710	0.0	19.20	18.99	1	25	Back	5	0.886	0.393	1.050	0.930	0.413	0.581	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.04	2310.00	27710	0.0	19.20	18.98	25	12	Back	5	0.898	0.397	1.052	0.945	0.418	0.591	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	-0.01	2310.00	27710	0.0	19.20	18.97	50	0	Back	5	0.934	0.418	1.054	0.984	0.441	0.615	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.00	2310.00	27710	0.0	19.20	18.99	1	25	Top	5	0.901	0.391	1.064	0.899	0.401	0.560	17.10
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.00	2310.00	27710	0.0	19.20	18.98	25	12	Top	5	0.704	0.302	1.052	0.741	0.318	0.463	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.09	2310.00	27710	0.0	19.20	18.99	1	25	Bottom	5	0.909	0.404	1.050	0.909	0.404	0.560	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.09	2310.00	27710	0.0	19.20	18.98	25	12	Bottom	5	0.909	0.404	1.052	0.909	0.404	0.560	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.00	2310.00	27710	0.0	19.20	18.99	1	25	Right	5	0.913	0.401	1.054	0.913	0.401	0.560	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.09	2310.00	27710	0.0	19.20	18.98	25	12	Right	5	0.926	0.414	1.052	0.927	0.415	0.560	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.08	2310.00	27710	0.0	19.20	18.99	1	25	Left	5	0.950	0.428	1.050	0.953	0.429	0.633	
Body	LTE Band 30	10	QPSK	4b	9QJHD	1:1	0.12	2310.00	27710	0.0	19.20	18.98	25	12	Left	5	0.950	0.428	1.052	0.953	0.429	0.633	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																1.6 W/kg (mW/g)							
Spatial Peak																Body							
Uncontrolled Exposure/General Population																averaged over 1 gram							

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2510.00	20950	0.0	18.30	18.09	1	50	Back	5	1.020	0.402	1.050	1.071	0.422	0.669	17.90	0.960	0.600	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.01	2510.00	21100	0.0	18.30	18.00	1	50	Back	5	0.989	0.390	1.050	1.068	0.417	0.668	17.90	0.960	0.600	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.09	2560.00	21350	0.0	18.30	18.13	1	50	Back	5	1.060	0.406	1.040	1.102	0.421	0.689	17.90	0.960	0.610	A11
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.02	2560.00	21350	0.0	18.30	17.98	1	50	Back	5	0.974	0.377	1.071	1.127	0.398	0.655	17.90	0.960	0.600	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.16	2560.00	21350	0.0	18.30	18.11	1	50	Back	5	1.046	0.395	1.040	1.061	0.413	0.685	17.90	0.960	0.600	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.01	2510.00	20950	0.0	18.30	18.09	50	0	Back	5	0.987	0.388	1.052	1.088	0.408	0.670	17.90	0.960	0.910	581
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2510.00	21100	0.0	18.30	18.09	0	50	Back	5	1.000	0.390	1.050	1.042	0.413	0.662	17.90	0.960	0.990	582
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.03	2560.00	21350	0.0	18.30	18.19	50	0	Back	5	1.050	0.402	1.029	1.079	0.414	0.674	17.90	0.970	0.606	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2560.00	21350	0.0	18.30	18.10	100	0	Back	5	1.004	0.398	1.047	1.057	0.406	0.661	17.90	0.970	0.594	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2560.00	21350	0.0	18.30	18.13	100	0	Back	5	1.000	0.390	1.040	1.060	0.406	0.661	17.90	0.970	0.594	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.01	2560.00	21350	0.0	18.30	18.19	50	50	Top	5	1.024	0.401	1.028	0.004	0.001	0.013	17.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2510.00	20950	0.0	18.30	18.09	1	50	Bottom	5	0.999	0.398	1.047	1.057	0.406	0.661	17.90	0.970	0.594	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.06	2510.00	21100	0.0	18.30	18.00	1	50	Bottom	5	0.969	0.348	1.065	1.073	0.373	0.634	17.90	0.970	0.475	544
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2560.00	21350	0.0	18.30	18.13	1	50	Bottom	5	0.993	0.348	1.040	0.906	0.362	0.594	17.90	0.860	0.538	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.00	2510.00	20950	0.0	18.30	18.09	50	0	Bottom	5	0.999	0.398	1.047	1.057	0.406	0.661	17.90	0.970	0.594	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.01	2510.00	21100	0.0	18.30	18.09	50	0	Bottom	5	0.984	0.353	1.059	0.972	0.374	0.628	17.90	0.870	0.544	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.01	2560.00	21350	0.0	18.30	18.19	50	50	Bottom	5	0.997	0.345	1.029	0.932	0.355	0.583	17.90	0.840	0.525	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.01	2560.00	21350	0.0	18.30	18.10	100	0	Bottom	5	0.997	0.345	1.040	1.060	0.406	0.661	17.90	0.970	0.594	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.06	2560.00	21350	0.0	18.30	18.13	1	50	Right	5	0.939	0.301	1.040	0.820	0.311	0.513	17.90	0.020	0.013	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.17	2560.00	21350	0.0	18.30	18.13	50	50	Right	5	0.917	0.010	1.029	0.017	0.010	0.011	17.90	0.020	0.013	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	-0.07	2560.00	21350	0.0	18.30	18.10	100	0	Right	5	0.982	0.004	1.040	0.002	0.004	0.005	17.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.03	2560.00	21350	0.0	18.30	18.18	50	50	Left	5	0.927	0.006	1.028	0.131	0.057	0.082	17.90	0.120	0.075	
Body	LTE Band 7	20	QPSK	1	9QJHD	1:1	0.02	2560.00	21350	0.0	18.30	17.84	1	0	Back	5	1.099	0.385	1.112	1.111	0.428	0.694	17.90	1.000	0.625	
ANSI/IEEE C63.1982 - SAFETY LIMIT																	Body									
Uncontrolled Exposure/General Population																	Spatial Peak averaged over 1 g mm									
																	1.6 W/kg (mW/g)									

Table 10-36 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 3g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 3g SAR [W/kg]	Simultaneous Exposure Rate [g SAR]	Plot #
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.03	2560.00	21350	0.0	20.60	19.96	1	50	Back	5	0.598	0.274	1.159	0.693	0.318	0.433	20.40	0.650	0.406		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.02	2560.00	21350	0.0	20.60	19.97	50	0	Back	5	0.613	0.289	1.156	0.732	0.334	0.458	20.40	0.690	0.431		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.04	2560.00	21350	0.0	20.60	19.96	1	50	Top	5	0.619	0.298	1.159	0.622	0.309	0.454	20.40	0.620	0.413		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.13	2560.00	21350	0.0	20.60	19.97	50	0	Top	5	0.651	0.309	1.156	0.924	0.400	0.515	20.40	0.920	0.513		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.02	2510.00	20950	0.0	20.60	19.80	1	50	Bottom	5	0.862	0.392	1.202	1.060	0.471	0.663	20.40	1.000	0.625		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.01	2535.00	21100	0.0	20.60	19.74	1	50	Bottom	5	0.622	0.292	1.229	1.063	0.463	0.564	20.40	1.000	0.625		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.02	2535.00	21100	0.0	20.60	19.73	1	50	Bottom	5	0.652	0.307	1.222	1.041	0.448	0.651	20.40	0.980	0.613		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.00	2560.00	21350	0.0	20.60	19.96	1	50	Bottom	5	0.631	0.355	1.159	0.963	0.411	0.662	20.40	0.910	0.569		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.03	2510.00	20950	0.0	20.60	19.80	50	25	Bottom	5	0.893	0.396	1.175	1.049	0.465	0.656	20.40	0.960	0.619		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.03	2535.00	21100	0.0	20.60	19.87	50	25	Bottom	5	0.855	0.375	1.181	1.011	0.444	0.632	20.40	0.950	0.594		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.03	2560.00	21350	0.0	20.60	19.97	50	0	Bottom	5	0.822	0.350	1.156	0.950	0.405	0.594	20.40	0.890	0.556		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.01	2560.00	21350	0.0	20.60	19.96	100	0	Bottom	5	0.618	0.313	1.161	0.961	0.410	0.601	20.40	0.900	0.563		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.08	2560.00	21350	0.0	20.60	19.96	1	50	Right	5	0.050	0.027	1.159	0.058	0.031	0.036	20.40	0.050	0.031		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	0.15	2560.00	21350	0.0	20.60	19.97	50	0	Right	5	0.048	0.026	1.156	0.055	0.030	0.034	20.40	0.050	0.031		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.12	2560.00	21350	0.0	20.60	19.96	1	50	Left	5	0.017	0.020	1.159	0.043	0.013	0.027	20.40	0.040	0.025		
Body	LTE Band 7	20	QPSK	2b	9QJHD	1:1	-0.13	2560.00	21350	0.0	20.60	19.97	50	0	Left	5	0.037	0.021	1.156	0.043	0.024	0.027	20.40	0.040	0.025		
Body	LTE Band 7	20	QPSK	2b	LK61W	1:1	0.01	2515.00	21150	0.0	20.60	19.89	1	50	Bottom	5	0.992	0.462	0.361	1.178	0.992	0.425	0.620	20.40	0.930	0.581	
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 10-37 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 3g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate [g SAR]	Plot #
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	-0.01	2510.00	20950	0.0	18.80	18.01	1	50	Back	5	0.582	0.230	1.159	0.698	0.276	0.436	18.40	0.630	0.394	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	-0.07	2535.00	21100	0.0	18.80	18.06	1	50	Back	5	0.714	0.277	1.186	0.847	0.329	0.528	18.40	0.760	0.475	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.00	2560.00	21350	0.0	18.80	18.03	1	50	Back	5	0.629	0.356	1.194	1.109	0.425	0.693	18.40	1.000	0.625	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	-0.03	2560.00	21350	0.0	18.80	17.93	1	0	Back	5	0.869	0.334	1.227	1.066	0.410	0.666	18.40	0.960	0.600	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.05	2510.00	20950	0.0	18.80	17.98	50	25	Back	5	0.574	0.226	1.208	0.693	0.273	0.453	18.40	0.620	0.388	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.02	2555.00	21100	0.0	18.80	18.08	50	0	Back	5	0.618	0.229	1.180	0.729	0.282	0.456	18.40	0.630	0.406	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.00	2560.00	21350	0.0	18.80	18.08	50	0	Back	5	0.862	0.332	1.191	1.027	0.395	0.642	18.40	0.920	0.575	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	-0.08	2560.00	21350	0.0	18.80	18.05	100	0	Back	5	0.801	0.326	1.189	0.952	0.376	0.595	18.40	0.860	0.538	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.01	2510.00	20950	0.0	18.80	18.01	1	50	Top	5	0.485	0.189	1.199	0.582	0.227	0.364	18.40	0.520	0.325	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	-0.01	2515.00	21100	0.0	18.80	18.06	1	50	Top	5	0.697	0.266	1.186	0.827	0.315	0.517	18.40	0.740	0.461	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.00	2560.00	21350	0.0	18.80	18.03	1	50	Top	5	0.813	0.316	1.194	0.971	0.377	0.607	18.40	0.870	0.544	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.02	2510.00	20950	0.0	18.80	17.98	50	25	Top	5	0.589	0.229	1.208	0.693	0.273	0.453	18.40	0.620	0.388	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	-0.01	2515.00	21100	0.0	18.80	18.08	50	0	Top	5	0.655	0.250	1.180	0.773	0.295	0.483	18.40	0.690	0.431	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.02	2560.00	21350	0.0	18.80	18.04	50	0	Top	5	0.811	0.315	1.192	0.966	0.375	0.604	18.40	0.870	0.544	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.03	2560.00	21350	0.0	18.80	18.05	100	0	Top	5	0.893	0.344	1.199	1.029	0.409	0.644	18.40	0.950	0.594	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.04	2515.00	21100	0.0	18.80	18.06	1	50	Bottom	5	0.405	0.002	1.186	0.006	0.002	0.004	18.40	0.010	0.006	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.06	2515.00	21100	0.0	18.80	18.08	50	0	Bottom	5	0.004	0.001	1.180	0.005	0.001	0.003	18.40	0.000	0.000	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.00	2515.00	21100	0.0	18.80	18.06	1	50	Right	5	0.280	0.140	1.196	0.144	0.166	0.215	18.40	0.110	0.074	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.06	2515.00	21100	0.0	18.80	18.08	50	0	Right	5	0.272	0.131	1.180	0.121	0.155	0.201	18.40	0.090	0.061	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.04	2515.00	21100	0.0	18.80	18.06	1	50	Left	5	0.013	0.007	1.186	0.015	0.008	0.009	18.40	0.010	0.006	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.07	2515.00	21100	0.0	18.80	18.08	50	0	Left	5	0.030	0.026	1.180	0.013	0.006	0.006	18.40	0.010	0.006	
Body	LTE Band 7	20	QPSK	3	9QJHD	1:1	0.05	2560.00	21350	0.0	18.80	17.49	1	50	Bottom	5	0.823	0.328	1.202	1.112	0.430	0.696	18.40	1.000	0.625	
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 10-38 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 3g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate [g SAR]	Plot #
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.03	2510.00	20950	0.0	19.10	18.46	1	50	Back	5	0.807	0.357	1.159	0.935	0.414	0.584	18.90	0.890	0.559	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.05	2535.00	21100	0.0	19.10	18.49	1	50	Back	5	0.804	0.350	1.153	0.925	0.403	0.575	18.90	0.870	0.544	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.05	2560.00	21350	0.0	19.10	18.64	1	50	Back	5	0.803	0.337	1.142	0.907	0.411	0.604	18.90	0.910	0.560	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.04	2510.00	20950	0.0	19.10	18.46	50	0	Back	5	0.817	0.363	1.159	0.947	0.423	0.592	18.90	0.890	0.556	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.05	2535.00	21100	0.0	19.10	18.49	50	0	Back	5	0.801	0.347	1.142	0.921	0.406	0.588	18.90	0.840	0.525	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.05	2560.00	21350	0.0	19.10	18.64	50	25	Back	5	0.807	0.347	1.142	0.907	0.386	0.551	18.90	0.840	0.525	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.04	2560.00	21350	0.0	19.10	18.64	100	0	Back	5	0.719	0.314	1.124	0.801	0.350	0.505	18.90	0.740	0.469	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.05	2510.00	20950	0.0	19.10	18.46	1	50	Back	5	0.803	0.350	1.153	0.925	0.411	0.575	18.90	0.870	0.544	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.08	2535.00	21100	0.0	19.10	18.49	1	50	Top	5	0.798	0.332	1.151	0.918	0.382	0.514	18.90	0.860	0.538	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.06	2560.00	21350	0.0	19.10	18.64	1	50	Top	5	0.776	0.322	1.124	0.883	0.358	0.539	18.90	0.810	0.506	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.05	2510.00	20950	0.0	19.10	18.46	50	0	Top	5	0.816	0.375	1.142	0.947	0.436	0.607	18.90	0.910	0.560	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.01	2510.00	20950	0.0	19.10	18.44	50	50	Top	5	0.916	0.382	1.164	1.066	0.445	0.666	18.90	1.000	0.625	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.03	2535.00	21100	0.0	19.10	18.63	50	0	Top	5	0.813	0.363	1.142	0.921	0.423	0.592	18.90	0.890	0.556	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.00	2560.00	21350	0.0	19.10	18.64	50	25	Top	5	0.771	0.319	1.112	0.867	0.355	0.536	18.90	0.800	0.500	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	0.01	2560.00	21350	0.0	19.10	18.63	100	0	Top	5	0.786	0.326	1.114	0.876	0.363	0.548	18.90	0.820	0.511	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.01	2560.00	21350	0.0	19.10	18.64	1	0	Bottom	5	0.792	0.300	1.122	0.800	0.322	0.500	18.90	0.780	0.480	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	0.01	2560.00	21350	0.0	19.10	18.56	50	0	Bottom	5	0.692	0.000	1.132	0.002	0.000	0.001	18.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.01	2560.00	21350	0.0	19.10	18.56	50	0	Bottom	5	0.692	0.000	1.132	0.002	0.000	0.001	18.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	0.03	2560.00	21350	0.0	19.10	18.56	50	0	Bottom	5	0.692	0.000	1.132	0.002	0.000	0.001	18.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	0.08	2560.00	21350	0.0	19.10	18.56	50	0	Bottom	5	0.692	0.000	1.132	0.002	0.000	0.001	18.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	0.03	2560.00	21350	0.0	19.10	18.56	50	0	Bottom	5	0.692	0.000	1.132	0.002	0.000	0.001	18.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.01	2560.00	21350	0.0	19.10	18.56	50	0	Bottom	5	0.692	0.000	1.132	0.002	0.000	0.001	18.90	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	9QJHD	1:1	-0.02	2510.00	20950	0.0	19.10	18.12	50	50	Top	5	0.884	0.390	1.253	1.045	0.439	0.653	18.90	0.980	0.613	
Spatial Peak																Body										
ANU/IEEE C63.1992 - SAFETY LIMIT																averaged over 10 g/mg										
Unrestricted General Population																										

10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.01	2506.00	39750	0.0	20.40	19.69	1	50	Back	5	0.925	0.362	1.178	1.090	0.426	0.681	19.80	0.940	0.588	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.01	2549.50	40185	0.0	20.40	19.73	1	50	Back	5	0.931	0.369	1.167	1.119	0.431	0.699	19.80	0.960	0.600	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.04	2593.00	40620	0.0	20.40	19.65	1	50	Back	5	0.962	0.368	1.189	1.144	0.438	0.715	19.80	0.980	0.613	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.03	2506.00	39750	0.0	20.40	19.75	50	50	Back	5	0.890	0.349	1.161	1.033	0.405	0.646	19.80	0.890	0.556	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.03	2549.50	40185	0.0	20.40	19.77	50	25	Back	5	0.920	0.367	1.156	1.098	0.424	0.686	19.80	0.940	0.588	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.06	2593.00	40620	0.0	20.40	19.76	50	25	Back	5	0.927	0.355	1.159	1.074	0.411	0.671	19.80	0.920	0.575	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.03	2549.50	40185	0.0	20.40	19.72	100	0	Back	5	0.896	0.349	1.169	1.047	0.408	0.654	19.80	0.900	0.563	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.08	2549.50	40185	0.0	20.40	19.73	1	50	Top	5	0.900	0.360	1.167	1.050	0.400	0.660	19.80	0.900	0.560	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.06	2549.50	40185	0.0	20.40	19.77	50	25	Top	5	0.900	0.360	1.156	1.050	0.400	0.660	19.80	0.900	0.560	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.01	2506.00	39750	0.0	20.40	19.69	1	50	Bottom	5	0.871	0.331	1.178	1.026	0.390	0.641	19.80	0.880	0.550	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.01	2549.50	40185	0.0	20.40	19.73	1	50	Bottom	5	0.910	0.342	1.167	1.062	0.399	0.664	19.80	0.910	0.569	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.07	2593.00	40620	0.0	20.40	19.65	1	50	Bottom	5	0.879	0.327	1.189	1.045	0.389	0.653	19.80	0.900	0.561	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.04	2506.00	39750	0.0	20.40	19.75	50	50	Bottom	5	0.889	0.338	1.161	1.032	0.392	0.645	19.80	0.890	0.556	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.03	2549.50	40185	0.0	20.40	19.77	50	25	Bottom	5	0.927	0.347	1.156	1.066	0.401	0.668	19.80	0.920	0.579	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.04	2593.00	40620	0.0	20.40	19.76	50	25	Bottom	5	0.896	0.334	1.159	1.038	0.387	0.649	19.80	0.890	0.556	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.02	2549.50	40185	0.0	20.40	19.72	100	0	Bottom	5	0.916	0.346	1.169	1.071	0.404	0.669	19.80	0.920	0.575	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.02	2549.50	40185	0.0	20.40	19.73	20	20	Right	5	0.920	0.349	1.167	1.073	0.412	0.674	19.80	0.920	0.613	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.05	2549.50	40185	0.0	20.40	19.77	50	25	Right	5	0.920	0.350	1.166	1.073	0.412	0.674	19.80	0.920	0.613	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.05	2549.50	40185	0.0	20.40	19.73	1	50	Left	5	0.917	0.357	1.167	1.067	0.407	0.670	19.80	0.910	0.568	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.05	2549.50	40185	0.0	20.40	19.77	50	25	Left	5	0.928	0.362	1.166	1.061	0.407	0.671	19.80	0.910	0.568	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.02	2636.50	41055	0.0	20.40	19.66	1	50	Back	5	0.781	0.297	1.185	0.926	0.346	0.579	19.80	0.800	0.500	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.00	2680.00	41490	0.0	20.40	19.67	1	50	Back	5	0.807	0.313	1.183	1.061	0.394	0.663	19.80	0.910	0.569	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.03	2636.50	41055	0.0	20.40	19.67	50	25	Back	5	0.794	0.298	1.183	0.939	0.350	0.587	19.80	0.820	0.528	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	-0.03	2680.00	41490	0.0	20.40	19.68	50	25	Back	5	0.899	0.333	1.180	1.061	0.393	0.663	19.80	0.910	0.569	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.00	2680.00	41490	0.0	20.40	19.63	100	0	Back	5	0.757	0.286	1.194	0.904	0.341	0.565	19.80	0.780	0.488	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.03	2636.50	41055	0.0	20.40	19.66	50	25	Bottom	5	0.718	0.289	1.186	0.863	0.319	0.619	19.80	0.740	0.463	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.00	2680.00	41490	0.0	20.40	19.67	1	50	Bottom	5	0.984	0.358	1.183	1.164	0.424	0.728	19.80	1.000	0.625	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.00	2680.00	41490	0.0	20.40	19.66	1	50	Bottom	5	0.913	0.346	1.186	1.107	0.410	0.692	19.80	0.950	0.594	
Body	LTE Band 41	20	QPSK	1	495TL	1:2.31	0.00	2680.00	41490	0.0	22.00	21.81	1	50	Bottom	5	1.002	0.382	1.183	1.066	0.392	0.686	21.40	0.920	0.575	
Body	LTE Band 41	20	QPSK	1	495TL	1:2.31	0.00	2680.00	41490	0.0	22.00	21.56	1	50	Bottom	5	0.946	0.349	1.187	1.047	0.386	0.654	21.40	0.900	0.563	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.02	2636.50	41055	0.0	20.40	19.67	50	25	Bottom	5	0.713	0.271	1.183	0.867	0.321	0.562	19.80	0.740	0.463	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.02	2680.00	41490	0.0	20.40	19.68	50	25	Bottom	5	0.743	0.286	1.186	0.912	0.340	0.600	19.80	0.780	0.488	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.01	2680.00	41490	0.0	20.40	19.63	100	0	Bottom	5	0.966	0.353	1.184	1.153	0.421	0.721	19.80	0.990	0.619	
Body	LTE Band 41	20	QPSK	1	495TL	1:1.58	0.03	2680.00	41490	0.0	20.40	19.90	1	50	Bottom	5	0.939	0.343	1.122	1.054	0.385	0.659	19.80	0.910	0.569	
Body	LTE Band 41	20	QPSK	1	495TL	1:2.31	0.02	2680.00	41490	0.0	22.00	21.62	1	50	Bottom	5	0.982	0.364	1.091	1.071	0.397	0.669	21.40	0.920	0.575	
ANSI/IEEE C63.1 (1987) - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

Table 10-40 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	0.07	2506.00	39750	0.0	23.00	22.47	1	50	Back	5	0.977	0.441	1.130	1.104	0.498	0.690	22.60	1.000	0.625	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	-0.01	2506.00	39750	0.0	23.00	22.46	1	50	Back	5	0.929	0.420	1.132	1.052	0.475	0.658	22.60	0.950	0.594	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:2.31	0.10	2506.00	39750	0.0	24.40	24.04	1	50	Back	5	0.880	0.405	1.138	1.001	0.459	0.626	24.20	0.910	0.569	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:2.31	0.05	2506.00	39750	0.0	24.40	23.73	1	50	Back	5	0.815	0.376	1.122	0.996	0.409	0.623	24.20	0.900	0.563	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	0.04	2549.50	40185	0.0	23.00	22.65	1	50	Back	5	0.748	0.346	1.084	0.822	0.374	0.514	22.60	0.740	0.463	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	0.04	2593.00	40620	0.0	23.00	22.62	1	50	Back	5	0.761	0.429	1.091	1.048	0.457	0.635	22.60	0.950	0.594	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	0.02	2506.00	39750	0.0	23.00	22.65	50	25	Back	5	0.824	0.377	1.084	0.893	0.409	0.558	22.60	0.810	0.506	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	0.02	2549.50	40185	0.0	23.00	22.66	50	50	Back	5	0.731	0.333	1.081	0.790	0.360	0.484	22.60	0.720	0.450	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	0.05	2593.00	40620	0.0	23.00	22.59	50	25	Back	5	0.760	0.348	1.099	0.857	0.382	0.536	22.60	0.780	0.488	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	-0.03	2506.00	39750	0.0	23.00	22.58	100	0	Back	5	0.863	0.396	1.102	0.951	0.435	0.594	22.60	0.860	0.538	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	-0.01	2506.00	39750	0.0	23.00	22.47	1	50	Bottom	5	0.843	0.363	1.130	0.953	0.410	0.596	22.60	0.860	0.538	
Body	LTE Band 41	20	QPSK	2b	CHPCL	1:1.58	-0.01	2549.50	40185	0.0	23.00	22.65	1	50	Bottom	5	0.877	0.370	1.084	0.951	0.401	0.594	22.60	0.860	0.538	

Table 10-41 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate (1g SAR)	Plot #
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.03	2506.00	39750	0.0	18.80	18.15	1	50	Back	5	0.174	0.150	1.161	0.434	0.174	0.271	18.10	0.370	0.231	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.04	2549.50	40185	0.0	18.80	18.02	1	50	Back	5	0.617	0.240	1.197	0.739	0.293	0.462	18.10	0.620	0.388	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2593.00	40620	0.0	18.80	18.16	1	50	Back	5	0.751	0.300	1.159	0.875	0.346	0.562	18.10	0.740	0.463	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.02	2506.00	39750	0.0	18.80	18.17	50	25	Back	5	0.570	0.149	1.155	0.428	0.172	0.258	18.10	0.360	0.225	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2549.50	40185	0.0	18.80	18.09	50	25	Back	5	0.607	0.242	1.178	0.715	0.285	0.447	18.10	0.600	0.375	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2593.00	40620	0.0	18.80	18.16	50	25	Back	5	0.751	0.300	1.155	0.845	0.337	0.528	18.10	0.710	0.441	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.00	2593.00	40620	0.0	18.80	18.15	100	0	Back	5	0.735	0.292	1.161	0.853	0.339	0.533	18.10	0.720	0.450	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.03	2506.00	39750	0.0	18.80	18.15	1	50	Top	5	0.417	0.159	1.161	0.478	0.185	0.299	18.10	0.400	0.250	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.00	2549.50	40185	0.0	18.80	18.09	1	50	Top	5	0.683	0.226	1.197	0.818	0.306	0.511	18.10	0.690	0.431	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2593.00	40620	0.0	18.80	18.16	1	50	Top	5	0.862	0.319	1.159	0.999	0.370	0.624	18.10	0.840	0.525	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2506.00	39750	0.0	18.80	18.17	50	25	Top	5	0.614	0.160	1.156	0.479	0.185	0.299	18.10	0.400	0.250	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.00	2549.50	40185	0.0	18.80	18.09	50	25	Top	5	0.680	0.227	1.178	0.812	0.303	0.509	18.10	0.690	0.431	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2593.00	40620	0.0	18.80	18.16	50	25	Top	5	0.869	0.318	1.153	0.990	0.367	0.619	18.10	0.840	0.525	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.01	2593.00	40620	0.0	18.80	18.15	100	0	Top	5	0.871	0.322	1.161	1.011	0.374	0.632	18.10	0.850	0.531	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.02	2616.50	41055	0.0	18.80	18.05	1	50	Back	5	0.906	0.327	1.109	1.184	0.448	0.740	18.10	1.000	0.625	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.03	2636.50	41055	0.0	18.80	17.79	1	0	Back	5	0.933	0.354	1.262	1.177	0.447	0.736	18.10	0.900	0.619	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:2.31	-0.06	2636.50	41055	0.0	20.40	19.83	1	50	Back	5	0.938	0.361	1.140	1.069	0.412	0.668	19.70	0.900	0.561	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.04	2680.00	41490	0.0	18.80	18.19	50	0	Back	5	0.914	0.355	1.153	1.052	0.410	0.658	18.10	0.890	0.566	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.15	2680.00	41490	0.0	18.80	18.20	1	50	Back	5	0.949	0.368	1.148	1.089	0.422	0.681	18.10	0.920	0.575	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2636.50	41055	0.0	18.80	18.14	50	0	Back	5	0.934	0.363	1.164	1.087	0.423	0.679	18.10	0.920	0.575	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.04	2680.00	41490	0.0	18.80	18.19	50	0	Back	5	0.914	0.355	1.153	1.052	0.410	0.658	18.10	0.890	0.566	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.04	2680.00	41490	0.0	18.80	18.10	100	0	Back	5	0.887	0.346	1.175	1.042	0.407	0.651	18.10	0.880	0.550	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.01	2636.50	41055	0.0	18.80	18.05	1	50	Top	5	0.897	0.333	1.189	1.067	0.396	0.667	18.10	0.900	0.563	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.02	2680.00	41490	0.0	18.80	18.20	1	50	Top	5	0.890	0.325	1.148	1.022	0.373	0.629	18.10	0.860	0.538	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2636.50	41055	0.0	18.80	18.14	50	0	Top	5	0.890	0.330	1.164	1.036	0.384	0.648	18.10	0.870	0.544	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.00	2680.00	41490	0.0	18.80	18.19	50	0	Top	5	0.914	0.335	1.151	1.052	0.386	0.658	18.10	0.890	0.556	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.01	2680.00	41490	0.0	18.80	18.10	100	0	Top	5	0.903	0.330	1.175	1.061	0.388	0.663	18.10	0.900	0.561	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.09	2680.00	41490	0.0	18.80	18.20	1	50	Bottom	5	0.000	0.000	1.148	0.000	0.000	0.000	18.10	0.000	0.000	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.05	2680.00	41490	0.0	18.80	18.19	50	0	Bottom	5	0.001	0.000	1.151	0.001	0.000	0.001	18.10	0.000	0.000	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.01	2680.00	41490	0.0	18.80	18.20	1	50	Right	5	0.046	0.040	1.148	0.095	0.046	0.099	18.10	0.080	0.050	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.01	2680.00	41490	0.0	18.80	18.19	50	0	Right	5	0.099	0.047	1.151	0.114	0.054	0.071	18.10	0.100	0.063	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.09	2680.00	41490	0.0	18.80	18.20	1	50	Left	5	0.015	0.008	1.148	0.011	0.009	0.011	18.10	0.010	0.006	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	-0.19	2680.00	41490	0.0	18.80	18.19	50	0	Left	5	0.014	0.009	1.151	0.016	0.009	0.010	18.10	0.010	0.006	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:1.58	0.02	2636.50	41055	0.0	18.80	18.00	1	50	Back	5	0.983	0.361	1.202	1.182	0.434	0.739	18.10	1.000	0.625	
Body	LTE Band 41	20	QPSK	3	CHPOL	1:2.31	0.02	2636.50	41055	0.0	20.40	19.72	1	50	Back	5	0.975	0.360	1.109	1.140	0.431	0.713	19.70	0.960	0.600	
ANSI/IEEE C63.1-1997 - SAFETY LIMIT										Body										1.6 W/kg (mW/g)					averaged over 1 gram	
Spatial Peak										Uncontrolled Exposure/General Population																

Note: Green entry represents HPUE measurement

Table 10-42 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate (1g SAR)	Plot #
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.01	2506.00	39750	0.0	21.10	20.72	1	50	Back	5	1.040	0.447	1.091	1.135	0.488	0.709	20.40	0.960	0.600	A14
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.01	2549.50	40185	0.0	21.10	20.78	1	50	Back	5	1.100	0.463	1.076	1.184	0.496	0.740	20.40	1.000	0.625	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2549.50	40185	0.0	21.10	20.48	1	50	Back	5	0.894	0.379	1.153	1.031	0.437	0.644	20.40	0.870	0.544	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:2.31	0.00	2549.50	40185	0.0	22.70	22.24	1	50	Back	5	0.847	0.403	1.114	1.055	0.449	0.659	22.00	0.890	0.556	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:2.31	0.00	2549.50	40185	0.0	22.70	22.24	1	50	Back	5	0.892	0.379	1.112	0.992	0.421	0.620	22.00	0.840	0.525	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.80	1	50	Back	5	0.775	0.331	1.072	0.831	0.355	0.519	20.40	0.700	0.438	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2506.00	39750	0.0	21.10	20.80	50	0	Back	5	0.800	0.407	1.072	0.997	0.436	0.633	20.40	0.840	0.525	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2549.50	40185	0.0	21.10	20.79	50	25	Back	5	1.109	0.462	1.074	1.181	0.496	0.738	20.40	1.000	0.625	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.02	2593.00	40620	0.0	21.10	20.81	50	25	Back	5	1.010	0.420	1.080	1.080	0.449	0.675	20.40	0.910	0.569	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	-0.06	2593.00	40620	0.0	21.10	20.78	100	0	Back	5	0.847	0.358	1.076	0.911	0.385	0.569	20.40	0.770	0.481	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.02	2506.00	39750	0.0	21.10	20.72	1	50	Top	5	0.963	0.403	1.091	1.050	0.440	0.656	20.40	0.890	0.556	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	-0.03	2549.50	40185	0.0	21.10	20.78	1	50	Top	5	0.890	0.350	1.076	0.915	0.377	0.572	20.40	0.770	0.481	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.80	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2549.50	40185	0.0	21.10	20.78	1	50	Top	5	0.857	0.346	1.074	0.899	0.372	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2506.00	39750	0.0	21.10	20.80	1	50	Top	5	0.916	0.398	1.072	1.014	0.428	0.634	20.40	0.860	0.538	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	-0.03	2549.50	40185	0.0	21.10	20.78	1	50	Top	5	0.857	0.346	1.074	0.899	0.372	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.01	2593.00	40620	0.0	21.10	20.78	100	0	Top	5	0.915	0.384	1.076	0.915	0.370	0.572	20.40	0.770	0.481	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	4b	LK61W	1:1.58	0.00	2593.00	40620	0.0	21.10	20.79	50	25	Top	5	0.880	0.361	1.076	0.942	0.362	0.562	20.40	0.760	0.475	
Body	LTE Band 41	20	Q																							

10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.40	3560.00	53340	0.0	19.30	18.61	1	50	Back	5	0.711	0.225	1.172	0.833	0.264	0.521	18.90	0.760	0.475	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.06	3603.30	53773	0.0	19.30	18.53	1	50	Back	5	0.548	0.178	1.194	0.654	0.213	0.469	18.90	0.590	0.369	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.01	3646.70	56207	0.0	19.30	18.52	1	50	Back	5	0.538	0.148	1.021	0.602	0.177	0.253	18.90	0.370	0.231	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.03	3690.00	56640	0.0	19.30	18.04	1	50	Back	5	0.444	0.183	1.387	0.584	0.258	0.371	18.90	0.540	0.338	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.04	3560.00	53340	0.0	19.30	18.68	50	25	Back	5	0.689	0.219	1.133	0.794	0.253	0.486	18.90	0.720	0.450	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.01	3603.30	53773	0.0	19.30	18.57	50	25	Back	5	0.540	0.175	1.183	0.639	0.207	0.399	18.90	0.580	0.363	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.02	3646.70	56207	0.0	19.30	18.47	50	25	Back	5	0.343	0.150	1.211	0.415	0.182	0.259	18.90	0.380	0.238	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.01	3640.00	56400	0.0	19.30	18.11	50	25	Back	5	0.459	0.186	1.113	0.644	0.245	0.353	18.90	0.510	0.319	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.09	3560.00	53340	0.0	19.30	18.58	100	0	Back	5	0.487	0.219	1.186	0.811	0.258	0.507	18.90	0.740	0.461	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.09	3560.00	53340	0.0	19.30	18.61	1	50	Top	5	0.000	0.000	1.172	0.000	0.000	0.000	18.90	0.000	0.000	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.05	3560.00	53340	0.0	19.30	18.68	50	25	Top	5	0.000	0.000	1.133	0.000	0.000	0.000	18.90	0.000	0.000	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.01	3560.00	53340	0.0	19.30	18.61	1	50	Bottom	5	0.809	0.269	1.172	1.101	0.319	0.688	18.90	1.000	0.625	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.00	3560.00	53340	0.0	19.30	18.31	1	50	Bottom	5	0.847	0.278	1.256	1.064	0.349	0.665	18.90	0.970	0.606	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.00	3603.30	53773	0.0	19.30	18.53	1	50	Bottom	5	0.613	0.209	1.194	0.683	0.221	0.414	18.90	0.680	0.396	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.02	3646.70	56207	0.0	19.30	18.52	1	50	Bottom	5	0.541	0.044	1.197	0.488	0.053	0.106	18.90	0.150	0.094	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.03	3690.00	56640	0.0	19.30	18.04	1	50	Bottom	5	0.157	0.046	1.387	0.210	0.062	0.131	18.90	0.130	0.119	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.02	3560.00	53340	0.0	19.30	18.58	50	25	Bottom	5	0.509	0.205	1.153	0.683	0.252	0.477	18.90	0.590	0.613	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.00	3603.30	53773	0.0	19.30	18.57	50	25	Bottom	5	0.613	0.205	1.183	0.682	0.133	0.265	18.90	0.670	0.54	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.01	3646.70	56207	0.0	19.30	18.47	50	25	Bottom	5	0.344	0.046	1.211	0.174	0.054	0.109	18.90	0.160	0.100	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.04	3600.00	56400	0.0	19.30	18.11	50	25	Bottom	5	0.528	0.047	1.192	0.208	0.062	0.120	18.90	0.150	0.119	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.00	3560.00	53340	0.0	19.30	18.58	100	0	Bottom	5	0.579	0.304	1.180	1.096	0.359	0.685	18.90	1.000	0.625	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.09	3560.00	53340	0.0	19.30	18.61	1	50	Right	5	0.007	0.003	1.172	0.002	0.001	0.001	18.90	0.000	0.000	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.02	3560.00	53340	0.0	19.30	18.68	50	25	Right	5	0.003	0.000	1.153	0.003	0.000	0.002	18.90	0.000	0.000	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.05	3560.00	53340	0.0	19.30	18.61	1	50	Left	5	0.083	0.035	1.172	0.097	0.041	0.061	18.90	0.000	0.056	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	-0.16	3560.00	53340	0.0	19.30	18.68	50	25	Left	5	0.081	0.034	1.153	0.093	0.039	0.058	18.90	0.080	0.050	
Body	LTE Band 48	20	QPSK	1	TQCNW	1:1.58	0.00	3560.00	53340	0.0	19.30	18.13	1	0	Bottom	5	0.773	0.251	1.309	1.012	0.329	0.633	18.90	0.920	0.575	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT										Spatial Peak		Body														
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g)														
												averaged over 1 gram														

Table 10-44 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.00	3560.00	53340	0.0	22.90	22.02	1	50	Back	5	0.995	0.217	1.191	0.709	0.258	0.443	22.30	0.600	0.375	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	-0.01	3603.30	53773	0.0	22.90	22.14	1	50	Back	5	0.518	0.190	1.225	0.835	0.233	0.397	22.30	0.540	0.338	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	-0.01	3646.70	56207	0.0	22.90	21.01	1	50	Back	5	0.487	0.162	1.227	0.810	0.211	0.369	22.30	0.520	0.323	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.03	3690.00	56640	0.0	22.90	21.80	1	50	Back	5	0.515	0.188	1.288	0.663	0.242	0.414	22.30	0.570	0.356	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.02	3560.00	53340	0.0	22.90	22.16	50	25	Back	5	0.502	0.216	1.186	0.702	0.256	0.439	22.30	0.600	0.375	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.01	3603.30	53773	0.0	22.90	22.07	50	25	Back	5	0.500	0.190	1.211	0.830	0.230	0.394	22.30	0.540	0.340	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.02	3646.70	56207	0.0	22.90	21.93	50	25	Back	5	0.488	0.179	1.250	0.610	0.224	0.381	22.30	0.520	0.325	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.02	3690.00	56640	0.0	22.90	21.85	50	25	Back	5	0.518	0.200	1.274	0.660	0.243	0.413	22.30	0.560	0.350	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.08	3560.00	53340	0.0	22.90	22.14	1	50	Top	5	0.000	0.000	1.911	0.000	0.000	0.000	22.30	0.000	0.000	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.07	3560.00	53340	0.0	22.90	22.16	50	25	Top	5	0.000	0.000	1.186	0.000	0.000	0.000	22.30	0.000	0.000	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.02	3560.00	53340	0.0	22.90	22.14	1	50	Bottom	5	0.985	0.353	1.191	1.173	0.420	0.733	22.30	1.000	0.625	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.00	3560.00	53340	0.0	22.90	21.82	1	99	Bottom	5	0.985	0.317	1.202	1.135	0.406	0.709	22.30	0.970	0.606	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.00	3603.30	53773	0.0	22.90	22.04	1	50	Bottom	5	0.811	0.290	1.225	0.933	0.355	0.621	22.30	0.850	0.531	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	-0.01	3646.70	56207	0.0	22.90	22.01	1	50	Bottom	5	0.781	0.274	1.227	0.958	0.336	0.599	22.30	0.820	0.511	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.04	3690.00	56640	0.0	22.90	21.80	1	50	Bottom	5	0.780	0.277	1.288	1.009	0.357	0.628	22.30	0.860	0.538	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.01	3560.00	53340	0.0	22.90	22.16	50	25	Bottom	5	0.967	0.346	1.186	1.147	0.410	0.717	22.30	0.980	0.613	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	-0.02	3603.30	53773	0.0	22.90	22.07	50	25	Bottom	5	0.613	0.288	1.211	0.682	0.349	0.614	22.30	0.840	0.525	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.00	3646.70	56207	0.0	22.90	21.93	50	25	Bottom	5	0.769	0.270	1.256	0.961	0.318	0.601	22.30	0.820	0.511	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	-0.01	3690.00	56640	0.0	22.90	21.85	50	25	Bottom	5	0.771	0.270	1.274	0.982	0.344	0.614	22.30	0.840	0.525	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.02	3560.00	53340	0.0	22.90	22.10	100	0	Bottom	5	0.879	0.321	1.202	1.097	0.386	0.661	22.30	0.900	0.563	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.01	3603.30	53773	0.0	22.90	22.10	100	0	Bottom	5	0.802	0.300	1.202	1.060	0.370	0.640	22.30	0.900	0.563	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	-0.17	3560.00	53340	0.0	22.90	22.16	50	25	Right	5	0.000	0.000	1.186	0.000	0.000	0.000	22.30	0.000	0.000	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.14	3560.00	53340	0.0	22.90	22.16	50	25	Right	5	0.079	0.015	1.186	0.067	0.030	0.038	22.30	0.050	0.031	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.05	3560.00	53340	0.0	22.90	22.14	1	50	Left	5	0.001	0.000	1.191	0.001	0.000	0.001	22.30	0.000	0.000	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.00	3560.00	53340	0.0	22.90	22.16	50	25	Left	5	0.999	0.299	1.186	0.992	0.290	0.485	22.30	0.900	0.563	
Body	LTE Band 48	20	QPSK	2b	QHPOL	1:1.58	0.01	3660.00	53340	0.0	22.90	22.16	1	99	Bottom	5	0.909	0.323	1.186	1.078	0.383	0.674	22.30	0.920	0.575	
ANSI/IEEE C63.19-1997 - SAFETY LIMIT																								Body		
Spatial Peak																								averaged over 1g		
Unintentional Exposure / General Population																								1.6 W/kg		

Table 10-46 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Pot #
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3560.00	55340	0.0	21.30	20.58	1	50	Back	5	0.666	0.236	1.180	0.786	0.278	0.491	20.60	0.660	0.413	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	-0.02	3603.30	55773	0.0	21.30	20.63	1	50	Back	5	0.653	0.232	1.167	0.762	0.271	0.476	20.60	0.640	0.400	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	-0.03	3646.70	56207	0.0	21.30	20.61	1	50	Back	5	0.657	0.234	1.172	0.770	0.274	0.481	20.60	0.650	0.406	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3690.00	56640	0.0	21.30	20.73	1	50	Back	5	0.685	0.246	1.146	0.792	0.280	0.495	20.60	0.670	0.413	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3560.00	55340	0.0	21.30	20.59	50	25	Back	5	0.677	0.240	1.178	0.788	0.283	0.499	20.60	0.670	0.419	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	-0.02	3603.30	55773	0.0	21.30	20.68	50	25	Back	5	0.666	0.236	1.163	0.768	0.272	0.480	20.60	0.650	0.406	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3646.70	56207	0.0	21.30	20.65	50	25	Back	5	0.652	0.231	1.159	0.756	0.268	0.473	20.60	0.640	0.400	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	-0.01	3690.00	56640	0.0	21.30	20.71	50	25	Back	5	0.685	0.242	1.146	0.785	0.277	0.491	20.60	0.660	0.413	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.02	3560.00	55340	0.0	21.30	20.58	1	50	Top	5	0.690	0.249	1.180	1.168	0.405	0.730	20.60	0.960	0.619	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.02	3603.30	55773	0.0	21.30	20.63	1	50	Top	5	0.947	0.326	1.167	1.105	0.380	0.651	20.60	0.930	0.581	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.01	3646.70	56207	0.0	21.30	20.61	1	50	Top	5	0.935	0.321	1.172	1.096	0.376	0.685	20.60	0.920	0.575	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3690.00	56640	0.0	21.30	20.73	1	50	Top	5	1.000	0.327	1.140	1.174	0.407	0.724	20.60	0.960	0.619	A11
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3560.00	55340	0.0	21.30	20.59	50	25	Top	5	1.000	0.347	1.178	1.178	0.409	0.736	20.60	0.960	0.619	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	-0.01	3560.00	55340	0.0	21.30	20.52	50	50	Top	5	0.990	0.344	1.197	1.145	0.412	0.741	20.60	1.000	0.625	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.01	3603.30	55773	0.0	21.30	20.68	100	0	Top	5	0.962	0.331	1.151	1.089	0.382	0.695	20.60	0.940	0.588	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.00	3646.70	56207	0.0	21.30	20.66	50	25	Top	5	0.945	0.324	1.159	1.095	0.376	0.684	20.60	0.920	0.575	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.04	3690.00	56640	0.0	21.30	20.71	50	25	Top	5	0.935	0.319	1.146	1.072	0.366	0.670	20.60	0.900	0.561	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.08	3690.00	56640	0.0	21.30	20.69	100	0	Top	5	0.966	0.329	1.151	1.112	0.378	0.695	20.60	0.940	0.588	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.09	3690.00	56640	0.0	21.30	20.73	1	50	Bottom	5	0.000	0.000	1.140	0.000	0.000	0.000	20.60	0.000	0.000	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.04	3690.00	56640	0.0	21.30	20.71	50	25	Bottom	5	0.000	0.000	1.146	0.000	0.000	0.000	20.60	0.000	0.000	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.08	3690.00	56640	0.0	21.30	20.73	1	50	Bottom	5	0.001	0.000	1.140	0.002	0.000	0.001	20.60	0.000	0.000	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.03	3690.00	56640	0.0	21.30	20.71	50	25	Right	5	0.000	0.000	1.146	0.000	0.000	0.000	20.60	0.000	0.000	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.04	3690.00	56640	0.0	21.30	20.73	1	50	Left	5	0.013	0.005	1.146	0.015	0.006	0.009	20.60	0.010	0.006	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.02	3690.00	56640	0.0	21.30	20.71	50	25	Left	5	0.012	0.005	1.146	0.014	0.006	0.009	20.60	0.010	0.006	
Body	LTE Band 48	20	QPSK	4b	CHPOL	1.1.58	0.01	3560.00	55340	0.0	21.30	20.30	50	50	Top	5	0.909	0.311	1.259	1.144	0.392	0.715	20.60	0.970	0.606	
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
Body																										
1.6 W/kg (mW/g)																										
averaged over 1 gram																										

10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Pot #	
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.09	680.50	136100	DFT-s-OFDM	0.0	24.00	23.23	1	53	Back	5	0.549	0.329	1.194	0.656	0.393	0.410		
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.05	680.50	136100	DFT-s-OFDM	0.3	23.70	23.03	50	0	Back	5	0.512	0.309	1.167	0.598	0.361	0.374		
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.02	680.50	136100	CP-OFDM	0.8	23.20	22.99	1	1	Back	5	0.478	0.285	1.050	0.502	0.299	0.314		
Body	NR Band n71	20	QPSK	1	495TL	1.1	0.03	680.50	136100	DFT-s-OFDM	0.0	24.00	23.23	1	53	Top	5	0.017	0.011	1.194	0.020	0.013	0.013		
Body	NR Band n71	20	QPSK	1	495TL	1.1	0.04	680.50	136100	DFT-s-OFDM	0.3	23.70	23.03	50	0	Top	5	0.014	0.008	1.167	0.016	0.009	0.010		
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.01	680.50	136100	DFT-s-OFDM	0.0	24.00	23.23	1	53	Bottom	5	0.494	0.273	1.194	0.590	0.320	0.360		
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.01	680.50	136100	DFT-s-OFDM	0.3	23.70	23.03	50	0	Bottom	5	0.460	0.253	1.167	0.537	0.295	0.336		
Body	NR Band n71	20	QPSK	1	495TL	1.1	0.09	680.50	136100	DFT-s-OFDM	0.0	24.00	23.23	1	53	Right	5	0.020	0.013	1.194	0.024	0.016	0.015		
Body	NR Band n71	20	QPSK	1	495TL	1.1	0.00	680.50	136100	DFT-s-OFDM	0.3	23.70	23.08	50	0	Right	5	0.004	0.006	1.167	0.008	0.005	0.008		
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.06	680.50	136100	DFT-s-OFDM	0.0	24.00	23.23	1	53	Left	5	0.191	0.113	1.194	0.228	0.133	0.143		
Body	NR Band n71	20	QPSK	1	495TL	1.1	-0.05	680.50	136100	DFT-s-OFDM	0.3	23.70	23.08	50	0	Left	5	0.079	0.102	1.167	0.209	0.119	0.131		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body																									
1.6 W/kg (mW/g)																									
averaged over 1 gram																									

Table 10-48 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR
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Table 10-50 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	24.50	23.47	1	40	Back	5	0.785	0.462	1.268	0.995	0.573	0.622	23.90	0.460	0.538	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	24.50	23.36	36	22	Back	5	0.861	0.493	1.300	1.119	0.441	0.499	23.90	0.770	0.606	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	24.50	23.29	75	0	Back	5	0.871	0.499	1.311	1.151	0.659	0.719	23.90	1.000	0.625	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.09	707.50	141500	CP-OFDM	0.3	24.50	23.41	1	1	Back	5	0.770	0.446	1.199	0.923	0.535	0.577	23.60	0.800	0.560	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	24.50	23.47	36	22	Top	5	0.662	0.359	1.266	0.723	0.438	0.477	23.60	0.660	0.444	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	24.50	23.36	36	22	Top	5	0.653	0.342	1.305	0.825	0.514	0.554	23.90	0.730	0.444	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	24.50	23.29	75	0	Top	5	0.619	0.339	1.321	0.818	0.448	0.511	23.90	0.730	0.444	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.10	707.50	141500	DFT-s-OFDM	0.0	24.50	23.36	36	22	Bottom	5	0.621	0.368	1.268	0.805	0.510	0.569	23.60	0.900	0.506	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	24.50	23.36	36	22	Bottom	5	0.663	0.409	1.300	0.917	0.612	0.611	23.90	0.910	0.606	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.15	707.50	141500	DFT-s-OFDM	0.0	24.50	23.47	1	40	Right	5	0.229	0.143	1.268	0.260	0.181	0.181	23.90	0.230	0.156	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	24.50	23.36	36	22	Right	5	0.261	0.153	1.300	0.313	0.196	0.196	23.90	0.170	0.169	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	24.50	23.47	1	40	Left	5	0.008	0.008	1.268	0.036	0.023	0.023	23.90	0.030	0.019	
Body	NR Band n12	15	QPSK	3	WRR04	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	24.50	23.36	36	22	Left	5	0.027	0.008	1.300	0.035	0.023	0.022	23.90	0.030	0.019	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Body											
Spatial Peak																1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population																averaged over 1 gram											

10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	24.00	23.93	1	1	Back	5	0.894	0.535	1.016	0.908	0.544	0.568	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.3	23.70	23.68	25	0	Back	5	0.918	0.547	1.005	0.923	0.550	0.577	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.3	23.70	23.60	50	0	Back	5	0.969	0.576	1.023	0.991	0.589	0.619	A18
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.03	793.00	158600	CP-OFDM	0.8	23.20	23.14	1	1	Back	5	0.728	0.439	1.014	0.738	0.445	0.461	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	0.15	793.00	158600	DFT-s-OFDM	0.0	24.00	23.93	1	1	Top	5	0.014	0.009	1.016	0.015	0.009	0.009	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	0.11	793.00	158600	DFT-s-OFDM	0.3	23.70	23.68	25	0	Top	5	0.015	0.010	1.005	0.015	0.010	0.009	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	0.10	793.00	158600	DFT-s-OFDM	0.0	24.00	23.93	1	1	Bottom	5	0.560	0.294	1.016	0.569	0.299	0.356	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.3	23.70	23.68	25	0	Bottom	5	0.529	0.278	1.005	0.532	0.279	0.333	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.07	793.00	158600	DFT-s-OFDM	0.0	24.00	23.93	1	1	Right	5	0.015	0.010	1.016	0.016	0.016	0.024	0.023
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.3	23.70	23.68	25	0	Right	5	0.015	0.023	1.005	0.015	0.023	0.022	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	24.00	23.93	1	1	Left	5	0.285	0.183	1.016	0.290	0.186	0.181	
Body	NR Band n14	10	QPSK	1	WRR04	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.3	23.70	23.68	25	0	Left	5	0.323	0.204	1.005	0.325	0.205	0.201	
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 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	23.40	22.91	1	30	Back	5	0.867	0.478	1.227	1.039	0.587	0.649	22.80	0.890	0.556	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	23.40	22.97	25	27	Back	5	0.829	0.471	1.211	1.008	0.570	0.628	22.80	0.860	0.538	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	23.40	22.90	50	0	Back	5	0.880	0.487	1.230	1.082	0.611	0.676	22.80	0.920	0.575	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.05	793.00	158600	CP-OFDM	0.0	23.40	22.91	1	1	Back	5	0.814	0.458	1.253	1.120	0.659	0.731	22.80	1.000	0.620	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	23.40	22.91	1	30	Top	5	0.575	0.380	1.227	0.706	0.356	0.441	22.80	0.600	0.375	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	23.40	22.97	25	27	Top	5	0.550	0.276	1.211	0.666	0.334	0.416	22.80	0.570	0.356	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	23.40	22.91	1	30	Bottom	5	0.014	0.009	1.227	0.017	0.011	0.011	22.80	0.000	0.000	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	0.21	793.00	158600	DFT-s-OFDM	0.0	23.40	22.97	25	27	Bottom	5	0.015	0.010	1.211	0.018	0.012	0.011	22.80	0.020	0.013	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.00	793.00	158600	DFT-s-OFDM	0.0	23.40	22.91	1	30	Right	5	0.455	0.320	1.227	0.913	0.187	0.196	22.80	0.170	0.188	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	23.40	22.97	25	27	Right	5	0.175	0.104	1.211	0.213	0.126	0.133	22.80	0.180	0.113	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	0.21	793.00	158600	DFT-s-OFDM	0.0	23.40	22.91	1	30	Left	5	0.026	0.017	1.227	0.032	0.021	0.020	22.80	0.030	0.019	
Body	NR Band n14	10	QPSK	3	WRR04	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	23.40	22.97	25	27	Left	5	0.022	0.004	1.211	0.027	0.017	0.017	22.80	0.020	0.013	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body									
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)									
Spatial Peak																		averaged over 1 gram									

10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 1

10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.00	22.95	1	104	Back	5	0.848	0.482	1.274	1.080	0.614	0.675	23.50	0.950	0.594	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.70	22.97	50	56	Back	5	0.864	0.505	1.211	1.071	0.612	0.669	23.50	0.940	0.588	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.70	22.80	100	0	Back	5	0.904	0.529	1.200	1.137	0.651	0.711	23.50	1.000	0.625	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.04	836.50	167300	CP-OFDM	0.0	23.50	22.67	1	1	Back	5	0.954	0.547	1.130	1.078	0.618	0.674	22.70	0.950	0.594	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	24.00	22.95	1	104	Top	5	0.008	0.004	1.274	0.010	0.005	0.006	23.50	0.010	0.006	
Body	NR Band n5	20	QPSK	1	90340	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	23.70	22.87	50	56	Top	5	0.008	0.004	1.011	0.010	0.005	0.006	23.50	0.010	0.006	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.00	22.95	1	104	Bottom	5	0.928	0.571	1.274	0.673	0.345	0.421	23.50	0.950	0.590	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	23.70	22.87	50	56	Bottom	5	0.520	0.266	1.211	0.630	0.322	0.394	23.50	0.950	0.544	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	24.00	22.95	1	104	Right	5	0.006	0.004	1.074	0.046	0.031	0.029	23.50	0.040	0.025	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.70	22.87	50	56	Right	5	0.462	0.268	1.033	0.021	0.014	0.032	23.50	0.040	0.023	
Body	NR Band n5	20	QPSK	1	90340	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	24.00	22.95	1	104	Left	5	0.194	0.115	1.274	0.247	0.152	0.154	23.50	0.220	0.138	
Body	NR Band n5	20	QPSK	1	90340	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	23.70	22.87	50	56	Left	5	0.217	0.134	1.211	0.263	0.162	0.164	23.50	0.230	0.144	
ANSI/IEEE CS1.1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) Spatial Peak Uncontrolled Exposure/General Population averaged over 1 gram											

Table 10-56 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.60	23.05	1	104	Back	5	1.000	0.572	1.135	1.135	0.649	0.709	22.90	0.960	0.600	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.60	22.97	50	0	Back	5	0.845	0.490	1.036	0.977	0.566	0.611	22.90	0.830	0.519	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.60	22.94	100	0	Back	5	0.948	0.548	1.044	1.103	0.636	0.689	22.90	0.940	0.588	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.04	836.50	167300	CP-OFDM	0.0	23.60	22.93	1	1	Back	5	1.010	0.579	1.067	1.179	0.676	0.727	22.90	1.000	0.625	A50
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.16	836.50	167300	CP-OFDM	0.0	23.60	22.95	1	1	Back	5	0.981	0.555	1.067	1.165	0.669	0.727	22.90	0.980	0.615	
Body	NR Band n5	20	QPSK	3	90340	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	23.60	23.05	1	104	Top	5	0.464	0.213	1.035	0.459	0.242	0.287	22.90	0.590	0.344	
Body	NR Band n5	20	QPSK	3	90340	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	23.60	22.97	50	0	Top	5	0.520	0.263	1.036	0.661	0.364	0.376	22.90	0.510	0.315	
Body	NR Band n5	20	QPSK	3	90340	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	23.60	23.05	1	104	Bottom	5	0.010	0.007	1.035	0.011	0.008	0.007	22.90	0.010	0.006	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.21	836.50	167300	DFT-s-OFDM	0.0	23.60	22.97	50	0	Bottom	5	0.011	0.007	1.056	0.013	0.008	0.008	22.90	0.010	0.006	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.60	23.05	1	104	Right	5	0.156	0.089	1.035	0.177	0.112	0.111	22.90	0.150	0.094	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	23.60	22.97	50	0	Right	5	0.228	0.145	1.036	0.264	0.168	0.165	22.90	0.220	0.138	
Body	NR Band n5	20	QPSK	3	90340	1:1	-0.18	836.50	167300	DFT-s-OFDM	0.0	23.60	23.05	1	104	Left	5	0.051	0.022	1.035	0.027	0.025	0.013	22.90	0.030	0.015	
Body	NR Band n5	20	QPSK	3	90340	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	23.60	22.97	50	0	Left	5	0.038	0.023	1.036	0.044	0.029	0.028	22.90	0.040	0.025	
ANSI/IEEE CS1.1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) Spatial Peak Uncontrolled Exposure/General Population averaged over 1 gram											

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	-0.10	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.79	1	77	Back	5	0.398	0.225	1.262	0.502	0.284	0.314		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.87	36	0	Back	5	0.409	0.224	1.239	0.507	0.278	0.317		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.79	1	77	Top	5	0.007	0.004	1.262	0.009	0.005	0.006		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.87	36	0	Top	5	0.013	0.008	1.239	0.016	0.010	0.013		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.79	1	77	Bottom	5	0.545	0.271	1.262	0.688	0.342	0.430		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.87	36	0	Bottom	5	0.473	0.236	1.239	0.584	0.292	0.365		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.06	1702.50	340500	CP-OFDM	0.0	21.80	20.68	1	1	Bottom	5	0.493	0.247	1.294	0.638	0.320	0.399		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.79	1	77	Right	5	0.016	0.009	1.262	0.020	0.011	0.013		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.87	36	0	Right	5	0.015	0.008	1.239	0.019	0.010	0.012		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	0.15	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.79	1	77	Left	5	0.091	0.050	1.262	0.115	0.063	0.072		
Body	NR Band n70	15	QPSK	1	LHPVJ	1:1	-0.10	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.87	36	0	Left	5	0.098	0.050	1.239	0.121	0.067	0.076		
ANSI/IEEE CS1.1992 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) Spatial Peak Uncontrolled Exposure/General Population averaged over 1 gram							

Table 10-58 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n70	15	QPSK	2b	L861W	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	1	77	Back	5	0.810	0.379	1.146	0.928	0.434	0.480	20.10	0.880	0.550	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	36	0	Back	5	0.595	0.381	1.138	0.677	0.320	0.423	20.10	0.640	0.400	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.55	75	0	Back	5	0.805	0.577	1.089	0.917	0.448	0.598	20.10	0.900	0.561	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	-0.16	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.71	1	77	Top	5	0.014	0.006	1.146	0.014	0.007	0.009	20.10	0.010	0.004	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	36	0	Top	5	0.014	0.007	1.138	0.016	0.008	0.010	20.10	0.020	0.013	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	36	0	Bottom	5	0.007	0.006	1.146	0.007	0.009	0.010	20.10	0.010	0.004	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	36	0	Bottom	5	0.685	0.328	1.138	0.780	0.373	0.488	20.10	0.740	0.463	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	-0.01	1702.50	340500	CP-OFDM	0.0	20.30	19.65	1	77	Back	5	0.810	0.379	1.146	0.928	0.434	0.480	20.10	0.880	0.550	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	-0.01	1702.50	340500	CP-OFDM	0.0	20.30	19.46	1	1	Bottom	5	0.815	0.440	1.159	1.069	0.519	0.663	20.10	0.625	0.400	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.71	1	77	Right	5	0.083	0.047	1.146	0.095	0.054	0.059	20.10	0.096	0.066	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	36	0	Right	5	0.083	0.047	1.146	0.095	0.057	0.062	20.10	0.096	0.066	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.71	1	77	Left	5	0.020	0.005	1.146	0.021	0.006	0.007	20.10	0.010	0.006	
Body	NR Band n70	15	QPSK	2b	L861W	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	20.30	19.74	36	0	Left	5	0.014	0.006	1.138	0.009	0.001	0.001	20.10	0.020	0.013	
UNLICENSED CDS1, L861, SAFETY LIMIT																											
Anomalous Exposure/General Population																											
1.6 W/kg (body) stored over 1 gram																											

Table 10-60 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.78	1	77	Back	5	0.683	0.324	1.127	0.770	0.365	0.481	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.92	36	43	Back	5	0.649	0.308	1.091	0.708	0.336	0.443	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.78	1	77	Top	5	0.817	0.393	1.127	0.921	0.443	0.576	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.92	36	43	Top	5	0.788	0.377	1.091	0.860	0.413	0.538	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.77	75	0	Top	5	0.725	0.354	1.130	0.819	0.400	0.512	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	0.04	1702.50	340500	CP-OFDM	0.0	18.30	17.90	1	1	Top	5	0.701	0.337	1.096	0.768	0.369	0.480	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.78	1	77	Bottom	5	0.010	0.005	1.127	0.011	0.006	0.007	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.92	36	43	Bottom	5	0.012	0.006	1.095	0.013	0.007	0.008	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.78	1	77	Right	5	0.011	0.006	1.127	0.012	0.007	0.008	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.16	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.82	36	43	Right	5	0.011	0.006	1.091	0.012	0.007	0.008	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.78	1	77	Left	5	0.076	0.042	1.127	0.086	0.047	0.054	
Body	NR Band n70	15	QPSK	4b	LHPVJ	1:1	-0.19	1702.50	340500	DFT-s-OFDM	0.0	18.30	17.92	36	43	Left	5	0.045	0.026	1.091	0.049	0.028	0.031	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.61	1	1	Back	5	0.504	0.270	1.315	0.663	0.355	0.414	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.75	108	0	Back	5	0.476	0.261	1.274	0.609	0.327	0.381	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	-0.18	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.61	1	1	Top	5	0.006	0.003	1.315	0.008	0.004	0.005	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.75	108	0	Top	5	0.005	0.002	1.274	0.006	0.003	0.004	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.61	1	1	Bottom	5	0.598	0.297	1.315	0.786	0.391	0.491	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.75	108	0	Bottom	5	0.518	0.310	1.274	0.811	0.403	0.508	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.48	216	0	Bottom	5	0.643	0.331	1.355	0.871	0.449	0.544	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	0.01	1745.00	349000	CP-OFDM	0.0	21.80	20.84	1	1	Bottom	5	0.586	0.298	1.247	0.731	0.372	0.457	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	0.15	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.61	1	1	Right	5	0.014	0.008	1.091	0.018	0.011	0.011	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	0.20	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.75	108	0	Right	5	0.015	0.008	1.274	0.019	0.010	0.012	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	-0.17	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.61	1	1	Left	5	0.091	0.049	1.315	0.120	0.064	0.075	
Body	NR Band n66	40	QPSK	1	LHPVJ	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	21.80	20.75	108	0	Left	5	0.078	0.044	1.274	0.099	0.056	0.062	
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 10-62 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.85	1	214	Back	5	0.740	0.339	1.109	0.810	0.376	0.506	19.90	0.730	0.456
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.81	108	0	Back	5	0.782	0.364	1.119	0.875	0.405	0.547	19.90	0.790	0.494
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.48	216	0	Back	5	0.763	0.353	1.153	0.880	0.407	0.550	19.90	0.800	0.500
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.81	108	0	Top	5	0.788	0.369	1.109	0.880	0.407	0.550	19.90	0.800	0.500
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.81	108	0	Top	5	0.900	0.400	1.119	0.900	0.400	0.500	19.90	0.900	0.500
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.85	1	214	Bottom	5	0.751	0.359	1.089	0.833	0.398	0.521	19.90	0.760	0.475
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.81	108	0	Bottom	5	0.752	0.359	1.089	0.833	0.398	0.521	19.90	0.760	0.475
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.68	216	0	Bottom	5	0.788	0.376	1.153	0.909	0.432	0.568	19.90	0.820	0.513
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.04	1745.00	349000	CP-OFDM	0.0	20.30	19.78	1	1	Bottom	5	0.979	0.487	1.227	1.103	0.526	0.689	19.90	1.000	0.625
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.12	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.85	1	214	Right	5	0.769	0.369	1.089	0.828	0.398	0.521	19.90	0.760	0.475
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.81	108	0	Right	5	0.909	0.409	1.119	0.907	0.407	0.507	19.90	0.900	0.500
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.85	1	214	Left	5	0.013	0.006	1.109	0.012	0.007	0.008	19.90	0.010	0.006
Body	NR Band n66	40	QPSK	2b	L6S1W	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	20.30	19.81	108	0	Left	5	0.012	0.006	1.119	0.013	0.007	0.008	19.90	0.010	0.006
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																										

Table 10-63 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Reported 1g SAR [W/kg]	Plot #
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.93	1	214	Back	5	0.379	0.197	1.222	0.463	0.241	0.289	17.60	0.440	0.275	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.98	108	54	Back	5	0.450	0.232	1.208	0.544	0.280	0.340	17.60	0.520	0.325	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.93	1	214	Top	5	0.788	0.364	1.222	0.934	0.445	0.571	17.60	0.870	0.544	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.98	108	54	Top	5	0.805	0.386	1.208	0.972	0.478	0.608	17.60	0.920	0.575	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.92	216	0	Top	5	0.776	0.359	1.235	0.975	0.478	0.609	17.60	0.920	0.575	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.06	1745.00	349000	CP-OFDM	0.0	17.80	16.89	1	1	Top	5	0.856	0.431	1.233	1.055	0.522	0.609	17.60	1.000	0.625	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	0.12	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.93	1	214	Bottom	5	0.616	0.309	1.222	0.620	0.313	0.383	17.60	0.600	0.383	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.98	108	54	Bottom	5	0.619	0.311	1.208	0.623	0.313	0.314	17.60	0.620	0.313	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.93	1	214	Left	5	0.379	0.197	1.222	0.276	0.148	0.171	17.60	0.275	0.168	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.98	108	54	Right	5	0.369	0.117	1.168	0.252	0.141	0.158	17.60	0.240	0.150	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.93	1	214	Left	5	0.000	0.000	1.222	0.000	0.000	0.000	17.60	0.000	0.000	
Body	NR Band n66	40	QPSK	3	49S1L	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	17.80	16.98	108	54	Left	5	0.000	0.000	1.208	0.000	0.000	0.000	17.60	0.000	0.000	
ANSI/IEEE C63.1992 - SAFETY LIMIT																		Body Weight									
Uncontrolled Exposure (General Population)																		averaged over 1 g (mm)									

10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.80	1	1	Back	5	0.650	0.300	1.259	0.755	0.378	0.472	18.40	0.880	0.425	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.48	108	0	Back	5	0.651	0.301	1.264	0.756	0.379	0.468	18.40	0.750	0.440	
Body	NR Band n25	40	QPSK	1	90340	1:2	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.50	216	0	Back	5	0.650	0.300	1.521	0.757	0.396	0.468	18.40	0.720	0.450	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.80	1	1	Top	5	0.652	0.300	1.259	0.608	0.000	0.002	18.40	0.000	0.000	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.68	108	0	Top	5	0.650	0.300	1.264	0.000	0.000	0.000	18.40	0.000	0.000	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.80	1	1	Bottom	5	0.633	0.409	1.259	1.036	0.515	0.648	18.40	0.930	0.581	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.48	108	0	Bottom	5	0.663	0.431	1.264	1.114	0.538	0.696	18.40	1.000	0.625	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.48	1	1	Bottom	5	0.707	0.393	1.321	1.093	0.518	0.818	18.40	0.904	0.594	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.00	1882.50	376500	CP-OFDM	0.0	18.80	17.17	1	1	Bottom	5	0.631	0.408	1.527	1.103	0.541	0.689	18.40	0.990	0.619	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.07	1882.50	376500	CP-OFDM	0.0	18.80	17.48	1	1	Bottom	5	0.627	0.404	1.259	0.000	0.000	0.000	18.40	0.000	0.000	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.68	108	0	Right	5	0.655	0.301	1.264	0.000	0.004	0.004	18.40	0.010	0.000	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.69	1	1	Left	5	0.651	0.320	1.259	0.039	0.025	0.024	18.40	0.040	0.020	
Body	NR Band n25	40	QPSK	1	90340	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	18.80	17.48	108	0	Left	5	0.651	0.353	1.264	0.040	0.025	0.025	18.40	0.040	0.020	
ANSI/IEEE C63.1 D02 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-66 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.22	1	214	Back	5	0.811	0.402	1.067	0.887	0.429	0.554	20.00	0.780	0.488	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.13	108	0	Back	5	0.840	0.405	1.089	0.915	0.441	0.572	20.00	0.810	0.506	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.22	1	214	Top	5	0.851	0.404	1.067	0.887	0.429	0.554	20.00	0.780	0.488	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.13	1	214	Top	5	0.853	0.406	1.067	0.914	0.406	0.609	20.00	0.810	0.510	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.13	108	0	Top	5	0.851	0.406	1.089	0.122	0.007	0.008	20.00	0.010	0.006	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.22	1	214	Bottom	5	0.851	0.404	1.067	0.887	0.429	0.554	20.00	0.780	0.488	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.13	108	0	Bottom	5	0.840	0.402	1.089	1.133	0.536	0.708	20.00	1.000	0.625	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.12	216	0	Bottom	5	0.850	0.407	1.093	1.113	0.531	0.699	20.00	0.980	0.615	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.00	1882.50	376500	CP-OFDM	0.0	20.50	20.24	1	1	Bottom	5	0.850	0.405	1.062	1.052	0.506	0.664	20.00	0.940	0.588	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.22	1	214	Right	5	0.867	0.408	1.067	0.071	0.041	0.044	20.00	0.060	0.038	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.13	108	0	Right	5	0.851	0.404	1.067	0.887	0.429	0.554	20.00	0.780	0.488	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.22	1	214	Left	5	0.856	0.409	1.067	0.917	0.410	0.611	20.00	0.810	0.513	
Body	NR Band n25	40	QPSK	2b	90340	1:1	-0.12	1882.50	376500	DFT-s-OFDM	0.0	20.50	20.13	108	0	Left	5	0.851	0.406	1.089	0.912	0.007	0.008	20.00	0.010	0.006	
ANSI/IEEE C63.1 D02 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-67 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.48	1	108	Back	5	0.546	0.294	1.361	0.634	0.341	0.396	17.80	0.560	0.350	
Body	NR Band n25	40	QPSK	3	90340	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.75	108	54	Back	5	0.489	0.261	1.335	0.558	0.296	0.447	17.80	0.490	0.306	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.65	1	108	Top	5	0.563	0.469	1.361	1.118	0.545	0.899	17.80	0.980	0.613	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.75	108	54	Top	5	0.551	0.464	1.335	1.098	0.515	0.861	17.80	0.930	0.581	
Body	NR Band n25	40	QPSK	3	90340	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.55	216	0	Top	5	0.554	0.464	1.389	1.134	0.552	0.909	17.80	0.990	0.619	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.00	1882.50	376500	CP-OFDM	0.0	18.30	17.60	1	1	Top	5	0.572	0.471	1.375	1.142	0.533	0.714	17.80	1.000	0.625	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.12	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.65	1	108	Bottom	5	0.553	0.512	1.361	0.027	0.014	0.017	17.80	0.020	0.013	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.19	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.75	108	54	Bottom	5	0.548	0.292	1.335	0.020	0.011	0.013	17.80	0.020	0.013	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.65	1	108	Right	5	0.551	0.471	1.361	0.290	0.136	0.156	17.80	0.120	0.078	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.75	108	54	Right	5	0.550	0.454	1.335	0.216	0.118	0.135	17.80	0.100	0.110	
Body	NR Band n25	40	QPSK	3	90340	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.65	1	108	Left	5	0.550	0.460	1.361	0.067	0.010	0.011	17.80	0.000	0.000	
Body	NR Band n25	40	QPSK	3	90340	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	18.30	17.75	108	54	Left	5	0.550	0.460	1.335	0.000	0.000	0.000	17.80	0.000	0.000	
ANSI/IEEE C63.1 D02 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (10g SAR)									
Uncontrolled Exposure/General Population																		averaged over 10 gram									

Table 10-70 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.41	1	26	Back	5	0.757	0.303	1.285	0.973	0.454	0.608	20.00	0.860	0.538	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.43	25	14	Back	5	0.849	0.292	1.279	1.086	0.501	0.679	20.00	0.940	0.600	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.39	50	0	Back	5	0.785	0.284	1.291	1.033	0.470	0.633	20.00	0.890	0.569	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	0.03	2310.00	462000	CP-OFDM	0.0	20.50	19.52	1	1	Back	5	0.904	0.414	1.253	1.133	0.519	0.708	20.00	1.000	0.625	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.49	1	26	Top	5	0.821	0.385	1.265	1.009	0.490	0.660	20.00	0.900	0.580	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.45	25	14	Top	5	0.852	0.304	1.279	1.015	0.505	0.699	20.00	0.910	0.605	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.41	1	26	Bottom	5	0.866	0.272	1.285	0.779	0.350	0.487	20.00	0.690	0.431	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.43	25	14	Bottom	5	0.839	0.261	1.279	0.728	0.341	0.474	20.00	0.670	0.410	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.41	1	26	Right	5	0.982	0.463	1.285	0.105	0.055	0.065	20.00	0.090	0.056	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.43	25	14	Right	5	0.873	0.240	1.279	0.093	0.051	0.058	20.00	0.080	0.050	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.41	1	26	Left	5	0.960	0.621	1.285	0.051	0.027	0.032	20.00	0.050	0.031	
Body	NR Band n30	10	QPSK	20	CH2PL	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	19.43	25	14	Left	5	0.981	0.622	1.279	0.052	0.028	0.033	20.00	0.050	0.031	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-71 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n30	10	QPSK	3	495TL	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.27	1	1	Back	5	0.976	0.398	1.079	1.053	0.429	0.618	17.00	0.910	0.569	
Body	NR Band n30	10	QPSK	3	495TL	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.29	25	0	Back	5	0.951	0.392	1.074	1.021	0.421	0.618	17.00	0.880	0.550	
Body	NR Band n30	10	QPSK	3	495TL	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.25	50	0	Back	5	0.905	0.377	1.084	0.981	0.409	0.613	17.00	0.850	0.531	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.00	2310.00	462000	CP-OFDM	0.0	17.60	17.33	1	1	Back	5	1.009	0.460	1.064	1.160	0.468	0.725	17.00	1.020	0.629	534
Body	NR Band n30	10	QPSK	3	495TL	1:1	-0.09	2310.00	462000	CP-OFDM	0.0	17.60	17.31	1	1	Back	5	1.071	0.392	1.064	1.075	0.442	0.712	17.00	0.990	0.581	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.27	1	1	Top	5	0.774	0.315	1.079	0.835	0.344	0.522	17.00	0.720	0.450	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.29	25	0	Top	5	0.782	0.323	1.074	0.840	0.347	0.525	17.00	0.720	0.450	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.25	50	0	Top	5	0.814	0.330	1.084	0.882	0.363	0.551	17.00	0.760	0.475	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.27	1	1	Bottom	5	0.920	0.300	1.079	0.900	0.300	0.000	17.00	0.000	0.000	
Body	NR Band n30	10	QPSK	3	495TL	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.29	25	0	Bottom	5	0.905	0.304	1.074	0.909	0.304	0.000	17.00	0.000	0.000	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.27	1	1	Right	5	0.995	0.618	1.079	0.103	0.041	0.064	17.00	0.090	0.056	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.29	25	0	Right	5	0.886	0.607	1.074	0.095	0.040	0.059	17.00	0.080	0.050	
Body	NR Band n30	10	QPSK	3	495TL	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.27	1	1	Left	5	0.920	0.606	1.079	0.051	0.026	0.027	17.00	0.040	0.025	
Body	NR Band n30	10	QPSK	3	495TL	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	17.60	17.29	25	0	Left	5	0.952	0.607	1.074	0.053	0.028	0.028	17.00	0.040	0.025	
ANSI/IEEE C63.1 1997 - 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 10-72 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.61	1	1	Back	5	0.983	0.431	1.146	1.127	0.495	0.704	18.00	0.970	0.606	
Body	NR Band n30	10	QPSK	40	WR804	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.58	25	0	Back	5	0.926	0.410	1.153	1.068	0.473	0.688	18.00	0.920	0.575	
Body	NR Band n30	10	QPSK	40	WR804	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.56	50	0	Back	5	0.909	0.400	1.150	1.054	0.460	0.655	18.00	0.900	0.569	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.00	2310.00	462000	CP-OFDM	0.0	19.20	18.54	1	1	Back	5	1.000	0.430	1.164	1.164	0.511	0.728	18.00	1.000	0.625	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.61	1	1	Top	5	0.849	0.298	1.146	0.790	0.342	0.494	18.00	0.680	0.425	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.58	1	1	Bottom	5	0.867	0.300	1.153	0.798	0.346	0.499	18.00	0.680	0.431	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.61	1	1	Bottom	5	0.911	0.304	1.146	0.816	0.305	0.508	18.00	0.680	0.430	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.21	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.58	25	0	Bottom	5	0.912	0.300	1.153	0.814	0.305	0.509	18.00	0.680	0.430	
Body	NR Band n30	10	QPSK	40	WR804	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.61	1	1	Right	5	0.905	0.304	1.146	0.070	0.016	0.018	18.00	0.000	0.011	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.10	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.58	25	0	Right	5	0.924	0.303	1.153	0.028	0.015	0.018	18.00	0.020	0.013	
Body	NR Band n30	10	QPSK	40	WR804	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.61	1	1	Left	5	0.918	0.300	1.146	0.034	0.014	0.016	18.00	0.010	0.007	
Body	NR Band n30	10	QPSK	40	WR804	1:1	-0.16	2310.00	462000	DFT-s-OFDM	0.0	19.20	18.58	25	0	Left	5	0.947	0.302	1.153	0.054	0.030	0.034	18.00	0.050	0.031	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		1.6 W/kg (mW/g)									
Spatial Peak																		averaged over 1 gram									
Uncontrolled Exposure/General Population																											

10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Back	5	0.932	0.390	1.183	1.103	0.425	0.689	17.00	0.930	0.581	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.00	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.50	108	108	Back	5	0.980	0.386	1.148	1.182	0.455	0.739	17.00	1.000	0.625	A21
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.00	2535.00	507	DFT-s-OFDM	0.0	18.30	17.57	1	214	Back	5	0.932	0.390	1.183	1.103	0.425	0.689	17.00	0.930	0.581	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	18.30	17.74	1	1	Back	5	0.950	0.399	1.183	1.161	0.454	0.726	17.00	0.980	0.613	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Top	5	0.900	0.390	1.183	0.900	0.000	0.000	17.00	0.000	0.000	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Top	5	0.900	0.390	1.183	0.900	0.000	0.000	17.00	0.000	0.000	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Bottom	5	0.883	0.328	1.183	1.021	0.388	0.638	17.00	0.860	0.538	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.11	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Bottom	5	0.883	0.328	1.183	1.021	0.388	0.638	17.00	0.860	0.538	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.56	216	0	Bottom	5	0.871	0.344	1.186	1.033	0.408	0.646	17.00	0.870	0.544	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Right	5	0.920	0.391	1.183	0.924	0.013	0.013	17.00	0.920	0.013	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.00	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	108	108	Right	5	0.920	0.391	1.183	0.924	0.013	0.013	17.00	0.920	0.013	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.57	1	214	Left	5	0.918	0.366	1.183	0.917	0.017	0.017	17.00	0.916	0.010	
Body	NR Band n7	40	QPSK	1	4C7V20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.30	17.70	108	108	Left	5	0.920	0.361	1.148	0.920	0.070	0.070	17.00	0.920	0.088	
ANALYZE CRL3 1592 - SAFETY LIMIT																											
Spatial Peak																											
Uncontrolled General Population																		1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-75 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.12	1	214	Back	5	0.873	0.340	1.369	1.021	0.397	0.638	18.80	1.000	0.625	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	-0.15	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.10	108	108	Back	5	0.795	0.317	1.511	0.915	0.365	0.572	18.80	0.900	0.561	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.06	216	0	Back	5	0.789	0.306	1.386	0.912	0.361	0.570	18.80	0.850	0.566	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.01	2535.00	507000	CP-OFDM	0.0	18.80	18.15	1	1	Back	5	0.670	0.262	1.161	0.778	0.305	0.486	18.80	0.760	0.475	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.12	1	214	Top	5	0.729	0.299	1.369	0.852	0.338	0.533	18.80	0.830	0.510	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.10	108	108	Top	5	0.659	0.275	1.551	0.753	0.317	0.496	18.80	0.780	0.485	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.06	216	0	Top	5	0.678	0.268	1.386	0.804	0.318	0.503	18.80	0.790	0.494	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.12	1	214	Bottom	5	0.824	0.303	1.369	0.905	0.302	0.503	18.80	0.900	0.600	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.10	108	108	Bottom	5	0.606	0.263	1.551	0.607	0.303	0.404	18.80	0.610	0.406	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.12	1	214	Right	5	0.511	0.249	1.369	0.364	0.174	0.228	18.80	0.340	0.225	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.10	108	108	Right	5	0.281	0.138	1.551	0.323	0.159	0.202	18.80	0.120	0.200	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.12	1	214	Left	5	0.038	0.010	1.369	0.023	0.012	0.014	18.80	0.020	0.013	
Body	NR Band n7	40	QPSK	3	4CVD20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.80	18.10	108	108	Left	5	0.017	0.008	1.551	0.020	0.009	0.013	18.80	0.020	0.011	
ANSI/IEEE C63.19-2012 - SAR TEST LIMIT																		1.6 W/kg (mW/g)							Body		
Spatial Peak																		1.6 W/kg (mW/g)							averaged over 1 gram		
Uncontrolled Exposure/General Population																											

Table 10-76 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.43	1	214	Back	5	0.786	0.334	1.367	0.917	0.390	0.573	19.10	0.910	0.569	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.36	108	108	Back	5	0.735	0.310	1.448	0.844	0.366	0.528	19.10	0.840	0.525	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.40	216	0	Back	5	0.817	0.309	1.375	1.007	0.434	0.629	19.10	1.000	0.625	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.02	2535.00	507000	CP-OFDM	0.0	19.10	18.32	1	1	Back	5	0.774	0.306	1.443	0.864	0.384	0.550	19.10	0.860	0.550	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.43	1	214	Top	5	0.774	0.313	1.367	0.903	0.365	0.564	19.10	0.900	0.563	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.30	108	108	Top	5	0.681	0.276	1.448	0.820	0.374	0.535	19.10	0.820	0.510	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.40	216	0	Top	5	0.817	0.312	1.375	0.960	0.390	0.600	19.10	0.950	0.594	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.18	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.43	1	214	Bottom	5	0.662	0.260	1.367	0.602	0.300	0.400	19.10	0.600	0.400	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.50	108	108	Bottom	5	0.602	0.261	1.448	0.802	0.301	0.401	19.10	0.800	0.500	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.43	1	214	Right	5	0.604	0.260	1.367	0.605	0.302	0.403	19.10	0.600	0.400	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.50	108	108	Right	5	0.604	0.261	1.448	0.605	0.303	0.403	19.10	0.600	0.400	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.43	1	214	Left	5	0.069	0.030	1.367	0.069	0.030	0.043	19.10	0.070	0.044	
Body	NR Band n7	40	QPSK	40	4CVD20	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	19.10	18.50	108	108	Left	5	0.069	0.031	1.448	0.068	0.030	0.043	19.10	0.070	0.044	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		1.6 W/kg (mW/g)							Body		
Spatial Peak																		1.6 W/kg (mW/g)							averaged over 1 gram		
Uncontrolled Exposure/General Population																											

10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.18	2592.99	518598	DFT-s-OFDM	0.0	18.40	17.73	1	137	Back	5	0.968	0.370	1.367	1.130	0.432	0.706	17.80	0.970	0.696	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.40	17.73	135	138	Back	5	0.960	0.362	1.367	1.120	0.422	0.700	17.80	0.960	0.690	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.10	2592.99	518598	DFT-s-OFDM	0.0	18.40	17.71	270	0	Back	5	0.951	0.351	1.372	1.068	0.411	0.668	17.80	0.920	0.575	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	18.40	17.69	1	1	Back	5	0.951	0.348	1.443	1.064	0.403	0.663	17.80	0.920	0.625	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	18.40	17.73	135	138	Bottom	5	1.000	0.371	1.367	1.167	0.431	0.729	17.80	1.000	0.700	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.40	17.71	270	0	Bottom	5	0.988	0.367	1.372	1.138	0.430	0.724	17.80	0.990	0.610	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	18.40	17.66	1	1	Bottom	5	0.957	0.366	1.443	1.062	0.398	0.658	17.80	0.910	0.569	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.06	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Back	5	0.811	0.304	1.440	0.925	0.347	0.578	17.80	0.790	0.494	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.05	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.68	135	138	Back	5	0.880	0.323	1.337	0.998	0.375	0.630	17.80	0.850	0.531	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.06	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.76	270	0	Back	5	0.729	0.277	1.359	0.845	0.321	0.528	17.80	0.720	0.450	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Top	5	0.806	0.303	1.440	0.907	0.303	0.404	17.80	0.810	0.506	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.02	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.88	135	138	Top	5	0.820	0.300	1.337	0.909	0.303	0.404	17.80	0.820	0.506	
Body	NR Band n41	100	QPSK	1	4CVD20	1:1	0.02	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Bottom	5	0.906	0.332	1.440	1.033	0.378	0.645	17.80	0.890	0.556	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.01	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.81	135	138	Bottom	5	0.916	0.330	1.427	1.040	0.380	0.648	17.80	0.900	0.568	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.76	270	0	Bottom	5	0.855	0.320	1.459	0.991	0.371	0.619	17.80	0.850	0.531	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.21	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Right	5	0.016	0.008	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.01	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	135	138	Right	5	0.011	0.007	1.491	0.011	0.007	0.013	17.80	0.010	0.007	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	1	137	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	135	138	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	135	138	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
	NR Band n41	100	QPSK	1	4CVD20	1:1	-0.04	2640.00	528000	DFT-s-OFDM	0.0	18.40	17.83	135	138	Left	5	0.019	0.011	1.490	0.018	0.009	0.021	17.80	0.020	0.013	
Annoyed CHS 1592 - SAFETY LUM																		1.6 W/kg (mW/g) averaged over 10cm									
Spotlight																		Body									
Uncontrolled General Population																											

Table 10-79 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #		
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.14	1	271	Back	5	0.848	0.322	1.164	0.987	0.375	0.617	16.20	0.850	0.531			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.23	135	0	Back	5	0.725	0.298	1.140	0.906	0.366	0.566	16.20	0.780	0.488			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.11	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.30	270	0	Back	5	0.668	0.261	1.134	0.856	0.312	0.499	16.20	0.690	0.431			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.14	1	271	Top	5	0.792	0.288	1.164	0.922	0.335	0.576	16.20	0.790	0.494			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.23	135	0	Top	5	0.653	0.241	1.140	0.744	0.275	0.465	16.20	0.640	0.405			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.30	270	0	Top	5	0.717	0.266	1.134	0.856	0.318	0.535	16.20	0.740	0.465			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.14	1	271	Bottom	5	0.600	0.000	1.164	0.000	0.000	0.000	16.20	0.000	0.000			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.23	135	0	Bottom	5	0.600	0.000	1.140	0.000	0.000	0.000	16.20	0.000	0.000			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.14	1	271	Right	5	0.113	0.003	1.164	0.132	0.062	0.063	16.20	0.110	0.069			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.23	135	0	Right	5	0.161	0.077	1.140	0.184	0.088	0.115	16.20	0.140	0.100			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.14	1	271	Left	5	0.028	0.009	1.164	0.010	0.012	0.012	16.20	0.020	0.013			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	16.80	16.23	135	0	Left	5	0.032	0.016	1.140	0.036	0.018	0.023	16.20	0.030	0.019			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.08	2640.00	528000	DFT-s-OFDM	0.0	16.80	15.86	1	137	Back	5	0.936	0.361	1.242	1.103	0.451	0.727	16.20	1.000	0.621			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.09	2640.00	528000	DFT-s-OFDM	0.0	16.80	15.86	135	0	Back	5	0.762	0.347	1.242	1.133	0.451	0.702	16.20	0.970	0.606			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.06	2640.00	528000	DFT-s-OFDM	0.0	16.80	15.84	270	0	Back	5	0.875	0.331	1.247	1.091	0.411	0.682	16.20	0.940	0.588			
Body	NR Band n41	100	QPSK	3	49571	1:1	-0.09	2640.00	528000	CP-OFDM	0.0	16.80	15.89	1	137	Back	5	0.823	0.322	1.291	1.050	0.416	0.656	16.20	0.900	0.569			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.01	2640.00	528000	DFT-s-OFDM	0.0	16.80	15.86	1	137	Top	5	0.855	0.314	1.242	1.037	0.392	0.648	16.20	0.890	0.554			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	16.80	15.89	135	0	Top	5	0.867	0.305	1.245	1.005	0.380	0.628	16.20	0.860	0.538			
Body	NR Band n41	100	QPSK	3	49571	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	16.80	15.84	270	0	Top	5	0.853	0.261	1.247	0.864	0.338	0.540	16.20	0.740	0.461			
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body										1.6 W/kg (mW/g)	
Spatial Peak																		averaged over 1 gram											
Uncontrolled Exposure/General Population																													

Table 10-80 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #		
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.94	1	1	Back	5	0.921	0.395	1.038	0.956	0.410	0.598	18.90	0.890	0.556			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	19.10	19.05	135	0	Back	5	0.965	0.386	1.012	0.916	0.391	0.573	18.90	0.860	0.538			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.95	135	0	Back	5	0.920	0.380	1.043	0.860	0.365	0.548	18.90	0.840	0.520			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.08	2592.99	518598	CP-OFDM	0.0	19.10	18.92	1	1	Back	5	0.921	0.396	1.042	0.960	0.413	0.600	18.90	0.900	0.563			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.94	1	1	Top	5	0.834	0.343	1.038	0.866	0.356	0.541	18.90	0.810	0.506			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	19.05	135	0	Top	5	0.886	0.344	1.043	0.859	0.348	0.535	18.90	0.800	0.500			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.93	270	0	Top	5	0.861	0.329	1.040	0.916	0.373	0.573	18.90	0.860	0.538			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.95	135	0	Bottom	5	0.861	0.329	1.040	0.916	0.373	0.573	18.90	0.860	0.538			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	19.10	19.05	135	0	Bottom	5	0.904	0.301	1.012	0.801	0.303	0.490	18.90	0.800	0.500			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.94	1	1	Right	5	0.051	0.027	1.038	0.032	0.018	0.020	18.90	0.030	0.019			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.95	135	0	Right	5	0.051	0.027	1.038	0.032	0.018	0.020	18.90	0.030	0.019			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	19.10	18.94	1	1	Left	5	0.050	0.026	1.038	0.031	0.018	0.020	18.90	0.030	0.019			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	19.10	19.05	135	0	Left	5	0.058	0.031	1.012	0.039	0.021	0.037	18.90	0.060	0.038			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.01	2640.00	528000	DFT-s-OFDM	0.0	19.10	18.97	1	137	Back	5	0.797	0.311	1.042	0.875	0.345	0.516	18.90	0.770	0.481			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.02	2640.00	528000	DFT-s-OFDM	0.0	19.10	18.91	135	138	Back	5	0.827	0.340	1.045	0.864	0.355	0.440	18.90	0.810	0.506			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.03	2640.00	528000	DFT-s-OFDM	0.0	19.10	18.89	270	0	Back	5	0.936	0.384	1.050	0.983	0.403	0.614	18.90	0.920	0.575			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.01	2640.00	528000	DFT-s-OFDM	0.0	19.10	18.92	1	137	Top	5	0.811	0.254	1.042	0.817	0.297	0.398	18.90	0.760	0.469			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	19.10	18.91	135	138	Top	5	0.725	0.300	1.045	0.758	0.314	0.474	18.90	0.710	0.444			
Body	NR Band n41	100	QPSK	4b	L835W	1:1	-0.02	2640.00	528000	DFT-s-OFDM	0.0	19.10	18.89	270	0	Top	5	0.832	0.331	1.050	0.825	0.354	0.546	18.90	0.820	0.511			
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body										1.6 W/kg (mW/g)	
Spatial Peak																		averaged over 1 gram											
Uncontrolled Exposure/General Population																													

10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.37	1	53	Back	5	0.608	0.214	1.268	0.834	0.271	0.521	17.10	0.790	0.494	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.08	3624.99	641666	DFT-s-OFDM	0.0	17.30	16.25	1	1	Back	5	0.599	0.171	1.274	0.648	0.218	0.405	17.10	0.610	0.381	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	17.30	15.96	1	1	Back	5	0.351	0.152	1.363	0.479	0.207	0.299	17.10	0.450	0.281	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.27	56	56	Back	5	0.755	0.241	1.157	0.950	0.384	0.717	17.10	0.850	0.550	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	17.30	16.28	56	56	Back	5	0.661	0.211	1.265	0.836	0.267	0.523	17.10	0.790	0.494	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	17.30	16.03	56	0	Back	5	0.343	0.150	1.340	0.460	0.205	0.288	17.10	0.440	0.275	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	17.30	16.27	56	56	Back	5	0.661	0.211	1.265	0.836	0.267	0.523	17.10	0.790	0.494	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.27	1	53	Top	5	0.600	0.000	1.268	0.000	0.000	0.000	17.10	0.000	0.000	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.37	56	56	Top	5	0.600	0.000	1.239	0.000	0.000	0.000	17.10	0.000	0.000	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.27	56	56	Top	5	0.600	0.000	1.239	0.000	0.000	0.000	17.10	0.000	0.000	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	17.30	16.25	1	1	Bottom	5	0.714	0.227	1.274	0.910	0.302	0.569	17.10	0.860	0.538	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	15.95	56	56	Bottom	5	0.350	0.094	1.365	0.177	0.060	0.111	17.10	0.170	0.106	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.37	56	56	Bottom	5	0.850	0.270	1.157	0.950	0.384	0.717	17.10	0.850	0.550	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	17.30	16.28	56	56	Bottom	5	0.555	0.185	1.265	0.702	0.234	0.449	17.10	0.660	0.413	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.27	56	56	Bottom	5	0.600	0.000	1.268	0.000	0.000	0.000	17.10	0.000	0.000	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	17.30	16.26	100	0	Bottom	5	0.619	0.207	1.271	0.787	0.263	0.492	17.10	0.740	0.463	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.06	3624.99	641666	CP-OFDM	0.0	17.30	16.36	1	1	Bottom	5	0.734	0.265	1.242	0.912	0.304	0.570	17.10	0.860	0.538	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.27	56	53	Right	5	0.600	0.000	1.239	0.000	0.000	0.000	17.10	0.000	0.000	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.37	56	56	Right	5	0.605	0.007	1.239	0.019	0.009	0.061	17.10	0.020	0.013	
Body	NR Band n48	40	QPSK	1	9030H	1:1	-0.08	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.27	1	53	Left	5	0.089	0.038	1.268	0.113	0.048	0.071	17.10	0.110	0.069	
Body	NR Band n48	40	QPSK	1	9030H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.30	16.37	56	56	Left	5	0.089	0.039	1.239	0.110	0.048	0.069	17.10	0.110	0.061	
AMR/IEC C611 1902 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (averaged over 10 g)									
Uncontrolled Exposure/General Population																											

Table 10-83 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.09	3570.00	638000	OFDM+OFDM	0.0	20.50	19.35	1	1	Back	5	0.177	0.202	1.303	0.752	0.293	0.470	19.90	0.640	0.400	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.05	3624.99	641666	OFDM+OFDM	0.0	20.50	19.35	1	1	Back	5	0.162	0.244	1.515	0.818	0.321	0.511	19.90	0.700	0.438	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.01	3679.98	645332	OFDM+OFDM	0.0	20.50	19.39	1	1	Back	5	0.161	0.243	1.507	0.805	0.320	0.509	19.90	0.690	0.431	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3570.00	638000	OFDM+OFDM	0.0	20.50	19.47	50	0	Back	5	0.181	0.240	1.388	0.775	0.304	0.484	19.90	0.660	0.413	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.06	3624.99	641666	OFDM+OFDM	0.0	20.50	19.46	50	0	Back	5	0.166	0.246	1.271	0.796	0.315	0.499	19.90	0.680	0.425	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.05	3679.98	645332	OFDM+OFDM	0.0	20.50	19.37	50	0	Back	5	0.161	0.233	1.297	0.805	0.275	0.503	19.90	0.690	0.431	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3624.99	641666	OFDM+OFDM	0.0	20.50	19.38	100	0	Back	5	0.160	0.190	1.324	0.808	0.252	0.505	19.90	0.690	0.431	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.01	3570.00	638000	OFDM+OFDM	0.0	20.50	19.35	1	1	Top	5	0.161	0.203	1.360	0.790	0.326	0.466	19.90	0.630	0.372	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3624.99	641666	OFDM+OFDM	0.0	20.50	19.35	1	1	Top	5	0.164	0.254	1.515	1.057	0.334	0.661	19.90	0.900	0.563	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.01	3679.98	645332	OFDM+OFDM	0.0	20.50	19.39	1	1	Top	5	0.165	0.260	1.521	1.169	0.355	0.731	19.90	1.000	0.625	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3570.00	638000	OFDM+OFDM	0.0	20.50	19.47	50	0	Top	5	0.181	0.263	1.368	1.003	0.331	0.664	19.90	0.910	0.569	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.01	3624.99	641666	OFDM+OFDM	0.0	20.50	19.46	50	0	Top	5	0.181	0.263	1.271	1.031	0.324	0.644	19.90	0.880	0.550	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3679.98	645332	OFDM+OFDM	0.0	20.50	19.37	50	28	Top	5	0.163	0.267	1.297	1.119	0.346	0.699	19.90	0.940	0.600	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.00	3624.99	641666	OFDM+OFDM	0.0	20.50	19.36	100	0	Top	5	0.163	0.258	1.324	1.100	0.342	0.689	19.90	0.940	0.588	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.01	3570.00	638000	CP-OFDM	0.0	20.50	19.37	1	1	Top	5	0.163	0.209	1.319	1.030	0.321	0.631	19.90	0.860	0.538	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3570.00	638000	CP-OFDM	0.0	20.50	19.38	1	1	Bottom	5	0.162	0.190	1.303	0.908	0.300	0.500	19.90	0.800	0.500	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3570.00	638000	OFDM+OFDM	0.0	20.50	19.47	50	0	Bottom	5	0.173	0.190	1.368	0.916	0.300	0.510	19.90	0.910	0.500	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.01	3570.00	638000	OFDM+OFDM	0.0	20.50	19.35	1	1	Right	5	0.165	0.263	1.303	0.840	0.345	0.525	19.90	0.720	0.450	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.02	3624.99	641666	OFDM+OFDM	0.0	20.50	19.35	1	1	Right	5	0.161	0.266	1.315	0.909	0.376	0.568	19.90	0.760	0.488	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.00	3679.98	645332	OFDM+OFDM	0.0	20.50	19.39	1	1	Right	5	0.163	0.273	1.321	0.863	0.361	0.639	19.90	0.740	0.463	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.01	3570.00	638000	OFDM+OFDM	0.0	20.50	19.47	50	0	Right	5	0.169	0.281	1.268	0.874	0.356	0.546	19.90	0.750	0.469	
Body	NR Band n4b	40	QPSK	3	90340	1.1	-0.00	3624.99	641666	OFDM+OFDM	0.0	20.50	19.36	50	0	Right	5	0.171	0.303	1.271	0.929	0.384	0.581	19.90	0.750	0.494	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.00	3679.98	645332	OFDM+OFDM	0.0	20.50	19.37	50	28	Right	5	0.170	0.304	1.297	0.947	0.394	0.592	19.90	0.810	0.506	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.05	3624.99	641666	OFDM+OFDM	0.0	20.50	19.38	100	0	Right	5	0.161	0.280	1.244	0.960	0.377	0.584	19.90	0.770	0.481	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.07	3570.00	638000	OFDM+OFDM	0.0	20.50	19.35	1	1	Left	5	0.168	0.193	1.303	0.910	0.306	0.506	19.90	0.910	0.506	
Body	NR Band n4b	40	QPSK	3	90340	1.1	0.04	3570.00	638000	OFDM+OFDM	0.0	20.50	19.47	50	0	Left	5	0.166	0.187	1.368	0.920	0.309	0.513	19.90	0.920	0.513	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Spatial Peak		1.6 W/kg (mW/g)		Uncontrolled Exposure/General Population				averaged over 1 gram	

Table 10-84 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.03	3570.00	638000	OFDM+OFDM	0.0	19.30	19.07	1	53	Back	5	0.161	0.211	1.054	0.591	0.222	0.369	19.90	0.530	0.331	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.03	3624.99	641666	OFDM+OFDM	0.0	19.30	19.00	1	1	Back	5	0.295	0.294	1.072	0.82	0.335	0.533	19.90	0.720	0.461	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.04	3679.98	645332	OFDM+OFDM	0.0	19.30	19.02	1	53	Back	5	0.165	0.245	1.067	0.710	0.261	0.444	19.90	0.640	0.400	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.00	3570.00	638000	CP-OFDM	0.0	19.30	19.07	1	53	Back	5	0.165	0.245	1.067	0.710	0.261	0.444	19.90	0.640	0.400	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.02	3624.99	641666	OFDM+OFDM	0.0	19.30	19.06	50	56	Back	5	0.162	0.244	1.081	0.705	0.264	0.441	19.90	0.630	0.394	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.04	3679.98	645332	OFDM+OFDM	0.0	19.30	18.84	50	0	Back	5	0.177	0.264	1.112	0.808	0.294	0.505	19.90	0.730	0.456	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.02	3624.99	641666	OFDM+OFDM	0.0	19.30	18.84	100	0	Back	5	0.176	0.274	1.074	0.801	0.294	0.501	19.90	0.720	0.450	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.01	3570.00	638000	OFDM+OFDM	0.0	19.30	19.07	1	53	Top	5	1.000	0.102	1.054	0.705	0.360	0.672	19.90	0.970	0.606	A7
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.03	3624.99	641666	OFDM+OFDM	0.0	19.30	19.00	1	1	Top	5	0.117	0.111	1.072	0.983	0.333	0.614	19.90	0.880	0.550	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.00	3679.98	645332	OFDM+OFDM	0.0	19.30	19.02	1	53	Top	5	0.173	0.294	1.067	1.114	0.342	0.840	19.90	0.840	0.520	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.01	3570.00	638000	OFDM+OFDM	0.0	19.30	19.01	50	56	Top	5	0.167	0.112	1.069	1.034	0.355	0.646	19.90	0.930	0.581	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.04	3624.99	641666	OFDM+OFDM	0.0	19.30	18.96	50	56	Top	5	0.174	0.296	1.081	0.945	0.320	0.931	19.90	0.930	0.531	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.00	3679.98	645332	OFDM+OFDM	0.0	19.30	18.84	50	0	Top	5	1.000	0.111	1.112	1.112	0.370	0.895	19.90	1.000	0.625	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.02	3624.99	641666	OFDM+OFDM	0.0	19.30	18.99	100	0	Top	5	0.160	0.112	1.074	0.999	0.335	0.824	19.90	0.900	0.563	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.02	3624.99	641666	OFDM+OFDM	0.0	19.30	19.01	1	1	Top	5	0.167	0.110	1.045	0.939	0.326	0.811	19.90	0.860	0.550	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.00	3570.00	638000	OFDM+OFDM	0.0	19.30	19.07	1	53	Bottom	5	0.160	0.100	1.054	0.900	0.300	0.800	19.90	0.900	0.500	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.00	3570.00	638000	OFDM+OFDM	0.0	19.30	19.01	50	56	Bottom	5	0.160	0.100	1.069	0.900	0.300	0.800	19.90	0.900	0.500	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.01	3570.00	638000	OFDM+OFDM	0.0	19.30	19.07	1	53	Right	5	0.160	0.100	1.054	0.900	0.300	0.800	19.90	0.900	0.500	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.00	3570.00	638000	OFDM+OFDM	0.0	19.30	19.01	50	56	Right	5	0.161	0.100	1.069	0.910	0.309	0.812	19.90	0.920	0.513	
Body	NR Band n4b	40	QPSK	40	90340	1.1	-0.11	3570.00	638000	OFDM+OFDM	0.0	19.30	19.07	1	53	Left	5	0.163	0.020	1.054	0.045	0.021	0.029	19.90	0.040	0.025	
Body	NR Band n4b	40	QPSK	40	90340	1.1	0.07	3570.00	638000	OFDM+OFDM	0.0	19.30	19.01	50	56	Left	5	0.169	0.077	1.052	0.024	0.031	0.031	19.90	0.050	0.031	
Annoyed/Exposed 100% - SAFETY Limit																		1.6 W/kg SAR [W/kg]									
Unmonitored Exposure/General Population																		spread over 1 gram									

Table 10-87 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.07	3500.01	63334	OFDM	0.0	18.20	17.36	1	137	Back	5	0.894	0.289	1.213	1.084	0.351	0.678	17.70	0.960	0.600	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.07	3500.01	63334	OFDM	0.0	18.20	17.31	135	0	Back	5	0.865	0.280	1.272	1.014	0.328	0.634	17.70	0.900	0.561	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.04	3500.01	63334	OFDM	0.0	18.20	17.31	270	0	Back	5	0.811	0.271	1.222	1.000	0.331	0.617	17.70	0.850	0.568	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.02	3500.01	63334	CP-OFDM	0.0	18.20	17.36	1	1	Back	5	0.977	0.297	1.213	1.124	0.360	0.703	17.70	1.000	0.625	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.04	3500.01	63334	OFDM	0.0	18.20	17.36	1	137	Top	5	0.868	0.272	1.213	0.986	0.331	0.613	17.70	0.870	0.544	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.05	3500.01	63334	OFDM	0.0	18.20	17.31	135	0	Top	5	0.849	0.282	1.272	0.988	0.331	0.618	17.70	0.880	0.550	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.01	3500.01	63334	OFDM	0.0	18.20	17.33	270	0	Top	5	0.858	0.289	1.222	1.048	0.353	0.655	17.70	0.930	0.581	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.02	3500.01	63334	OFDM	0.0	18.20	17.36	1	137	Right	5	0.861	0.280	1.272	0.988	0.331	0.618	17.70	0.880	0.550	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	0.03	3500.01	63334	OFDM	0.0	18.20	17.31	135	0	Bottom	5	0.093	0.010	1.272	0.004	0.001	0.003	17.70	0.000	0.001	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.03	3500.01	63334	OFDM	0.0	18.20	17.36	1	137	Right	5	0.861	0.280	1.213	0.986	0.331	0.613	17.70	0.870	0.544	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	0.03	3500.01	63334	OFDM	0.0	18.20	17.31	135	0	Left	5	0.081	0.008	1.272	0.002	0.001	0.002	17.70	0.000	0.001	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	0.03	3500.01	63334	OFDM	0.0	18.20	17.36	1	137	Left	5	0.028	0.011	0.213	0.028	0.013	0.018	17.70	0.020	0.013	
Body	NR Band n77 Dss	100	QPSK	3	49571	1:1	-0.10	3500.01	63334	OFDM	0.0	18.20	17.33	135	0	Left	5	0.018	0.002	1.272	0.002	0.009	0.014	17.70	0.020	0.013	
ANSI/IEEE C63.11-2002 - SAFETY LIMIT																		1.6 W/kg (mW/g)							Body		
Spatial Peak																		averaged over 1 gram									
Uncontrolled Exposure/General Population																											

Table 10-88 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.02	3500.01	63334	OFDM	0.0	18.10	17.35	1	137	Back	5	0.400	0.148	1.189	0.478	0.176	0.268	17.80	0.440	0.275	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.02	3500.01	63334	OFDM	0.0	18.10	17.39	135	0	Back	5	0.474	0.176	1.233	0.545	0.217	0.365	17.80	0.540	0.338	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.00	3500.01	63334	OFDM	0.0	18.10	17.35	1	137	Top	5	0.249	0.267	1.189	0.891	0.317	0.517	17.80	0.810	0.519	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	-0.01	3500.01	63334	OFDM	0.0	18.10	17.39	135	0	Top	5	0.819	0.289	1.233	1.010	0.356	0.611	17.80	0.940	0.589	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.02	3500.01	63334	OFDM	0.0	18.10	17.35	270	0	Top	5	0.786	0.281	1.242	0.989	0.349	0.618	17.80	0.920	0.575	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.00	3500.01	63334	CP-OFDM	0.0	18.10	17.37	1	1	Back	5	0.889	0.297	1.213	1.007	0.360	0.715	17.80	1.000	0.625	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.02	3500.01	63334	OFDM	0.0	18.10	17.35	1	137	Bottom	5	0.000	0.000	1.189	0.000	0.000	0.000	17.80	0.000	0.000	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.05	3500.01	63334	OFDM	0.0	18.10	17.39	135	0	Bottom	5	0.000	0.000	1.233	0.000	0.000	0.000	17.80	0.000	0.000	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	-0.01	3500.01	63334	OFDM	0.0	18.10	17.31	135	0	Bottom	5	0.000	0.000	1.233	0.000	0.000	0.000	17.80	0.000	0.000	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.02	3500.01	63334	OFDM	0.0	18.10	17.39	135	0	Right	5	0.000	0.000	1.233	0.000	0.000	0.000	17.80	0.000	0.000	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	0.02	3500.01	63334	OFDM	0.0	18.10	17.35	1	137	Left	5	0.003	0.005	1.189	0.039	0.018	0.024	17.80	0.040	0.025	
Body	NR Band n77 DSS	100	QPSK	49	WR804	1:1	-0.08	3500.01	63334	OFDM	0.0	18.10	17.39	135	0	Left	5	0.006	0.002	1.233	0.002	0.005	0.020	17.80	0.030	0.009	
ANSI/IEEE C63.11-2002 - SAFETY LIMIT																		1.6 W/kg (mW/g)							Body		
Spatial Peak																		averaged over 1 gram									
Uncontrolled Exposure/General Population																											

10.29 NR Band n77 Standalone SAR

Table 10-89 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.01	3750.00	65000	OFDM	0.0	20.70	19.96	1	137	Back	5	0.946	0.402	1.186	1.122	0.477	0.701	20.10	0.960	0.600	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.03	3750.00	65000	OFDM	0.0	20.70	20.01	135	0	Back	5	0.848	0.360	1.172	0.994	0.422	0.621	20.10	0.850	0.511	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.00	3750.00	65000	OFDM	0.0	20.70	19.95	270	0	Back	5	0.884	0.370	1.189	1.051	0.446	0.657	20.10	0.900	0.561	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.03	3750.00	65000	OFDM	0.0	20.70	19.96	1	137	Top	5	0.024	0.011	1.186	0.028	0.013	0.018	20.10	0.020	0.011	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.06	3750.00	65000	OFDM	0.0	20.70	20.01	135	0	Top	5	0.004	0.000	1.172	0.006	0.000	0.000	20.10	0.010	0.006	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.09	3750.00	65000	OFDM	0.0	20.70	19.96	1	137	Bottom	5	0.349	0.207	1.186	0.434	0.127	0.219	20.10	0.340	0.219	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.02	3750.00	65000	OFDM	0.0	20.70	20.01	135	0	Bottom	5	0.269	0.117	1.172	0.441	0.137	0.237	20.10	0.230	0.148	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.07	3750.00	65000	OFDM	0.0	20.70	19.96	1	137	Right	5	0.013	0.005	1.186	0.015	0.006	0.009	20.10	0.010	0.006	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.01	3750.00	65000	OFDM	0.0	20.70	20.01	135	0	Right	5	0.014	0.006	1.172	0.016	0.007	0.010	20.10	0.010	0.006	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.02	3750.00	65000	OFDM	0.0	20.70	19.96	270	0	Right	5	0.813	0.360	1.186	0.864	0.391	0.650	20.10	0.820	0.511	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.01	3750.00	65000	OFDM	0.0	20.70	20.01	135	0	Left	5	0.811	0.329	1.172	0.950	0.386	0.594	20.10	0.810	0.506	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.01	3750.00	65000	OFDM	0.0	20.70	19.95	270	0	Left	5	0.847	0.343	1.189	1.007	0.408	0.629	20.10	0.860	0.538	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.02	3890.00	66200	OFDM	0.0	19.50	19.16	1	1	Back	5	0.307	0.258	1.081	0.625	0.270	0.397	18.90	0.340	0.238	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.08	3890.00	66200	OFDM	0.0	19.50	19.17	135	0	Back	5	0.529	0.243	1.079	0.608	0.262	0.377	18.90	0.510	0.319	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.21	3890.00	66200	OFDM	0.0	19.50	19.15	270	0	Back	5	0.705	0.260	1.084	0.764	0.248	0.418	18.90	0.620	0.406	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.04	3890.00	66200	OFDM	0.0	19.50	19.16	1	1	Bottom	5	0.493	0.144	1.081	0.501	0.156	0.211	18.90	0.430	0.269	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.03	3890.00	66200	OFDM	0.0	19.50	19.17	135	0	Bottom	5	0.505	0.152	1.079	0.545	0.169	0.241	18.90	0.440	0.288	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.02	3890.00	66200	OFDM	0.0	19.50	19.15	270	0	Bottom	5	0.629	0.260	1.084	0.684	0.248	0.418	18.90	0.570	0.373	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.00	3890.00	66200	OFDM	0.0	19.50	19.16	1	1	Left	5	0.817	0.330	1.081	0.905	0.361	0.566	18.90	0.770	0.481	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.02	3890.00	66200	OFDM	0.0	19.50	19.17	135	0	Left	5	0.811	0.338	1.079	0.907	0.365	0.567	18.90	0.770	0.481	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.02	3890.00	66200	OFDM	0.0	19.50	19.15	270	0	Left	5	0.847	0.343	1.084	1.007	0.386	0.629	18.90	0.860	0.538	
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	0.27	3890.00	66200	CP-OFDM	0.0	19.50	19.05	1	1	Left	5	1.070	0.416	1.096	1.173	0.456	0.783	18.90	1.000	0.625	A79
Body	NR Band n77	100	QPSK	1	TC0W4	1:1	-0.02	3890.00	66200	CP-OFDM	0.0	19.50	19.16	1	1	Left	5	0.307	0.258	1.081	0.625	0.270	0.397	18.90	0.340	0.238	
Unmodeled CWs 1.92 - SAFETY LIMIT																					Body						
Annoyed/Exposure/General Population																					1.6 W/kg (mW/g)		swayed over 1 gram				

Table 10-91 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.89	1	137	Back	5	0.808	0.315	1.151	0.953	0.363	0.096	18.80	0.810	0.506	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.90	135	138	Back	5	0.907	0.343	1.148	1.041	0.394	0.611	18.80	0.890	0.556	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.88	270	0	Back	5	0.909	0.344	1.153	1.060	0.408	0.663	18.80	0.900	0.561	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.08	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.89	1	137	Top	5	0.942	0.293	1.151	1.084	0.337	0.678	18.80	0.920	0.579	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.90	135	138	Top	5	0.941	0.293	1.148	1.060	0.339	0.675	18.80	0.920	0.579	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.88	270	0	Top	5	0.950	0.282	1.153	1.040	0.325	0.650	18.80	0.880	0.550	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.03	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.89	1	137	Bottom	5	0.950	0.284	1.151	1.012	0.305	0.608	18.80	0.910	0.568	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.20	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.90	135	138	Bottom	5	0.923	0.100	1.148	0.925	0.006	0.000	18.80	0.910	0.568	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.89	1	137	Right	5	0.961	0.381	1.151	1.106	0.430	0.891	18.80	0.940	0.588	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.00	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.90	135	138	Right	5	0.959	0.395	1.148	1.147	0.453	0.717	18.80	0.980	0.613	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.88	270	0	Right	5	1.020	0.490	1.153	1.176	0.461	0.785	18.80	1.000	0.625	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.02	3750.00	650000	CP-OFDM	0.0	19.50	18.84	1	1	Right	5	0.874	0.345	1.219	1.065	0.421	0.666	18.80	0.910	0.569	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.07	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.89	1	137	Left	5	0.923	0.095	1.151	0.926	0.012	0.016	18.80	0.910	0.568	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	19.50	18.90	135	138	Left	5	0.923	0.095	1.148	0.926	0.011	0.016	18.80	0.910	0.568	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.20	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.06	1	1	Back	5	0.716	0.294	1.186	0.849	0.349	0.511	18.10	0.720	0.450	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.01	135	0	Back	5	0.807	0.242	1.199	1.004	0.411	0.628	18.10	0.810	0.511	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.00	270	0	Back	5	0.956	0.384	1.202	1.125	0.462	0.703	18.10	0.900	0.605	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.02	3930.00	662000	CP-OFDM	0.0	18.80	17.96	1	1	Back	5	0.836	0.343	1.213	1.014	0.416	0.614	18.10	0.840	0.518	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.00	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.06	135	0	Top	5	0.902	0.151	1.186	0.955	0.186	0.312	18.10	0.910	0.519	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.04	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.01	135	0	Top	5	0.942	0.168	1.199	0.650	0.201	0.406	18.10	0.920	0.544	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.01	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.06	1	1	Right	5	0.907	0.279	1.186	0.830	0.331	0.524	18.10	0.910	0.544	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	-0.00	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.01	135	0	Right	5	0.911	0.281	1.199	0.852	0.337	0.533	18.10	0.920	0.550	
Body	NR Band n77	100	QPSK	3	49571.1	1.1	0.00	3930.00	662000	DFT-s-OFDM	0.0	18.80	18.00	270	0	Right	5	0.989	0.311	1.202	0.948	0.374	0.593	18.10	0.910	0.506	
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 10-92 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.10	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.00	1	137	Back	5	0.557	0.195	1.230	0.685	0.240	0.428	18.50	0.610	0.381	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.10	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.01	135	69	Back	5	0.548	0.194	1.227	0.672	0.238	0.420	18.50	0.600	0.375	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.00	1	137	Top	5	0.723	0.242	1.230	0.889	0.298	0.556	18.50	0.800	0.500	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.01	135	69	Top	5	0.726	0.242	1.227	0.877	0.323	0.611	18.50	0.810	0.544	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	18.90	17.99	270	0	Top	5	0.806	0.268	1.233	0.954	0.330	0.621	18.50	0.890	0.550	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	0.06	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.00	1	137	Bottom	5	0.600	0.000	1.230	0.000	0.000	0.000	18.50	0.000	0.000	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.01	135	69	Bottom	5	0.600	0.000	1.227	0.000	0.000	0.000	18.50	0.000	0.000	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	0.06	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.00	1	137	Right	5	0.613	0.005	1.230	0.016	0.006	0.010	18.50	0.010	0.006	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	0.01	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.01	135	69	Right	5	0.612	0.004	1.227	0.015	0.005	0.009	18.50	0.010	0.006	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.12	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.00	1	137	Left	5	0.602	0.011	1.230	0.039	0.016	0.024	18.50	0.030	0.019	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	0.06	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.01	135	69	Left	5	0.613	0.014	1.227	0.040	0.017	0.025	18.50	0.040	0.025	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	18.70	17.67	1	1	Back	5	0.625	0.226	1.268	0.793	0.287	0.465	18.10	0.710	0.444	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.00	3930.00	662000	DFT-s-OFDM	0.0	18.70	17.97	135	0	Back	5	0.625	0.224	1.269	0.778	0.280	0.455	18.10	0.690	0.406	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	0.01	3930.00	662000	DFT-s-OFDM	0.0	18.70	17.67	1	1	Top	5	0.820	0.272	1.268	1.040	0.345	0.600	18.10	0.930	0.581	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.00	3930.00	662000	DFT-s-OFDM	0.0	18.70	17.97	135	0	Top	5	0.786	0.269	1.269	1.002	0.339	0.586	18.10	0.900	0.569	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	0.02	3930.00	662000	DFT-s-OFDM	0.0	18.70	17.85	270	0	Top	5	0.877	0.284	1.274	1.117	0.375	0.688	18.10	1.000	0.625	
Body	NR Band n77	100	QPSK	4b	4Vc20	1.1	-0.01	3930.00	662000	CP-OFDM	0.0	18.70	17.70	1	1	Top	5	0.781	0.262	1.259	0.983	0.330	0.614	18.10	0.880	0.550	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

10.30 2.4 GHz WIFI SISO

Table 10-96 Antenna 4a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIF/ IEEE 802.11n	22	DSSS	4a	TQCN4	97.87	-0.05	2462	11	1.0	16.25	15.07	Back	5	0.381	0.200	1.312	1.022	0.511	0.268	0.519	15.25	0.400	0.250	
Body	2.4 GHz WIF/ IEEE 802.11n	22	DSSS	4a	TQCN4	97.87	-0.01	2462	11	1.0	16.25	15.07	Top	5	0.211	0.083	1.312	1.022	0.283	0.111	0.177	15.25	0.220	0.138	
Body	2.4 GHz WIF/ IEEE 802.11n	22	DSSS	4a	TQCN4	97.87	0.06	2462	11	1.0	16.25	15.07	Left	5	0.366	0.170	1.312	1.022	0.493	0.228	0.307	15.25	0.380	0.238	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

10.31 5 GHz WIFI SISO Standalone SAR

Table 10-97 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #		
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	-0.10	5270	54	U-NII-2A	13.5	18.00	17.35	Back	5	0.970	0.331	1.161	1.021	1.150	0.392	0.719			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.00	5270	54	U-NII-2A	13.5	18.00	15.08	Back	5	0.486	0.167	1.236	1.021	0.613	0.368	0.383			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.01	5270	54	U-NII-2A	13.5	18.00	17.35	Top	5	0.008	0.002	1.161	1.021	0.009	0.002	0.006			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.05	5270	54	U-NII-2A	13.5	18.00	17.35	Bottom	5	0.203	0.074	1.161	1.021	0.241	0.088	0.151			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.14	5270	54	U-NII-2A	13.5	18.00	17.35	Right	5	0.251	0.083	1.161	1.021	0.298	0.098	0.186			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.08	5270	54	U-NII-2A	13.5	18.00	17.35	Left	5	0.000	0.000	1.161	1.021	0.000	0.000	0.000			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Note: Blue entry represents variability measurement.

Table 10-98 Antenna 2a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	49C2D	97.95	-0.06	5270	54	U-NII-2A	13.5	15.00	14.39	Back	5	0.481	0.163	1.205	1.021	0.592	0.201	0.370	13.30	0.400	0.250	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	49C2D	97.95	0.16	5270	54	U-NII-2A	13.5	15.00	14.39	Bottom	5	0.094	0.031	1.205	1.021	0.116	0.041	0.073	13.30	0.080	0.050	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	49C2D	97.95	-0.03	5270	54	U-NII-2A	13.5	15.00	14.39	Right	5	0.112	0.036	1.205	1.021	0.138	0.044	0.086	13.30	0.090	0.056	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-99 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #		
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	0.02	5530	106	U-NII-2C	29.3	13.30	12.33	Back	5	0.271	0.089	1.250	1.021	0.346	0.114	0.216			
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	0.07	5610	122	U-NII-2C	29.3	17.75	17.46	Back	5	0.980	0.379	1.069	1.021	1.180	0.414	0.744	A31		
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	-0.06	5610	122	U-NII-2C	29.3	17.75	17.46	Back	5	0.993	0.355	1.069	1.021	1.088	0.366	0.680			
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	-0.06	5690	138	U-NII-2C	29.3	17.75	17.49	Back	5	0.972	0.332	1.062	1.021	1.054	0.360	0.659			
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	0.01	5690	138	U-NII-2C	29.3	17.75	17.49	Top	5	0.020	0.008	1.062	1.021	0.022	0.009	0.014			
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	-0.07	5690	138	U-NII-2C	29.3	17.75	17.49	Bottom	5	0.281	0.104	1.062	1.021	0.305	0.113	0.191			
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	-0.19	5690	138	U-NII-2C	29.3	17.75	17.49	Right	5	0.152	0.061	1.062	1.021	0.165	0.066	0.103			
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2a	495TL	97.94	0.08	5690	138	U-NII-2C	29.3	17.75	17.49	Left	5	0.000	0.000	1.062	1.021	0.000	0.000	0.000			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Note: Blue entry represents variability measurement.

Table 10-100 Antenna 2a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	49C2D	97.94	-0.04	5530	106	U-NII-2C	29.3	14.75	14.32	Back	5	0.485	0.165	1.104	1.021	0.547	0.186	0.342	13.45	0.400	0.250	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	49C2D	97.94	-0.13	5530	106	U-NII-2C	29.3	14.75	14.32	Bottom	5	0.151	0.055	1.104	1.021	0.170	0.062	0.109	13.45	0.120	0.075	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	49C2D	97.94	0.03	5530	106	U-NII-2C	29.3	14.75	14.32	Right	5	0.067	0.024	1.104	1.021	0.076	0.027	0.048	13.45	0.060	0.038	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-101 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	-0.02	5755	151	U-NII-3	13.5	18.50	17.08	Back	5	0.791	0.267	1.403	1.021	1.119	0.382	0.699	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.05	5795	159	U-NII-3	13.5	18.50	17.12	Back	5	0.714	0.249	1.374	1.021	1.002	0.349	0.626	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.05	5795	159	U-NII-3	13.5	18.50	17.12	Top	5	0.000	0.000	1.374	1.021	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	-0.10	5795	159	U-NII-3	13.5	18.50	17.12	Bottom	5	0.235	0.090	1.374	1.021	0.330	0.126	0.206	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	-0.11	5795	159	U-NII-3	13.5	18.50	17.12	Right	5	0.175	0.068	1.374	1.021	0.245	0.095	0.153	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	2a	495TL	97.95	0.00	5795	159	U-NII-3	13.5	18.50	17.12	Left	5	0.000	0.000	1.374	1.021	0.000	0.000	0.000	
ANSI/IEEE C95.3-1992 - SAFETY LIMIT															Body								
Spatial Peak															16 W/kg (mW/g)								
Uncontrolled Exposure/General Population															averaged over 1 gram								

Table 10-102 Antenna 2a Reduced

[illegible]

Table 10-103 Antenna 4a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g]	Plot #
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	4a	495TL	97.95	-0.03	5190	38	U-NII-1	13.5	15.00	13.67	Back	5	0.385	0.133	1.358	1.021	0.534	0.184	0.334	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	4a	495TL	97.95	-0.07	5230	46	U-NII-1	13.5	19.00	18.12	Back	5	0.954	0.337	1.225	1.021	1.193	0.441	0.226	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	4a	495TL	97.95	0.06	5230	46	U-NII-1	13.5	19.00	18.12	Top	5	0.288	0.119	1.225	1.021	0.260	0.049	0.225	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	4a	495TL	97.95	0.06	5230	46	U-NII-1	13.5	19.00	18.12	Bottom	5	0.013	0.007	1.225	1.021	0.014	0.009	0.015	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	4a	495TL	97.95	0.03	5230	46	U-NII-1	13.5	19.00	18.12	Right	5	0.001	0.000	1.225	1.021	0.001	0.000	0.001	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	4a	495TL	97.95	-0.04	5230	46	U-NII-1	13.5	19.00	18.12	Left	5	0.255	0.102	1.225	1.021	0.319	0.128	0.199	
ANSI/IEEE C95.3 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

Table 10-104 Antenna 4a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI# band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Ratio (1g SAR)	Pict #
Body	5 GHz Wi-Fi / IEEE 802.11n	40	OFDM	4a	49971	97.95	-0.03	5.230	46	U-NI-1	13.5	16.00	45.35	Back	5	0.1000	0.171	1.161	1.021	0.593	0.703	0.371	14.10	0.400	0.250		
Body	5 GHz Wi-Fi / IEEE 802.11n	40	OFDM	4a	49971	97.95	0.07	5.230	46	U-NI-1	13.5	16.00	45.35	7gg	5	0.123	0.067	1.161	1.021	0.148	0.096	0.091	14.30	0.300	0.063		
Body	5 GHz Wi-Fi / IEEE 802.11n	40	OFDM	4a	49971	97.95	0.04	5.230	46	U-NI-1	13.5	16.00	45.35	Left	5	0.113	0.084	1.161	1.021	0.114	0.052	0.084	14.30	0.090	0.056		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																Body											
Spatial Peak																1.6 W/kg (mW/g)											
Uncontrolled Exposure / General Population																averaged over 1 gram											

Table 10-105 Antenna 4a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	0.01	5530	106	U-NII-2C	29.3	14.50	13.49	Back	5	0.634	0.210	1.262	1.021	0.817	0.271	0.511	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	-0.03	5610	122	U-NII-2C	29.3	16.00	15.60	Back	5	0.964	0.321	1.096	1.021	1.079	0.359	0.674	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	0.00	5690	138	U-NII-2C	29.3	16.00	15.68	Back	5	1.080	0.335	1.076	1.021	0.926	0.300	0.741	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	0.00	5690	138	U-NII-2C	29.3	16.00	15.68	Top	5	0.290	1.055	1.076	1.021	0.319	1.115	0.199	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	0.04	5690	138	U-NII-2C	29.3	16.00	15.68	Bottom	5	0.029	1.011	1.076	1.021	0.032	0.032	0.020	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	0.01	5690	138	U-NII-2C	29.3	16.00	15.68	Right	5	0.004	1.000	1.076	1.021	0.003	0.003	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	TQCW4	97.94	0.08	5690	138	U-NII-2C	29.3	16.00	15.68	Left	5	0.182	0.074	1.076	1.021	0.200	0.081	0.125	
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 10-106 Antenna 4a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio [SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 30g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WPI/ IEEE 802.11ac	80	OFDM	4s	T0CWA	97.94	-0.03	5690	138	U-NII-2C	29.3	13.00	12.35	Back	5	0.501	0.165	1.161	1.021	0.594	0.196	0.371	11.30	0.400	0.250		
Body	5 GHz WPI/ IEEE 802.11ac	80	OFDM	4s	T0CWA	97.94	-0.13	5690	138	U-NII-2C	29.3	13.00	12.35	Top	5	0.135	0.046	1.161	1.021	0.184	0.064	0.115	11.30	0.120	0.075		
Body	5 GHz WPI/ IEEE 802.11ac	80	OFDM	4s	T0CWA	97.94	0.07	5690	138	U-NII-2C	29.3	13.00	12.35	Left	5	0.064	0.020	1.161	1.021	0.100	0.036	0.063	11.30	0.070	0.044		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Body											
Spatial Peak																1.6 W/kg (mW/g) averaged over 1 gmm											
ARNSI/IEEE C95.1-2005/General Population																Body											

Table 10-107 Antenna 4a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	SAR Reported 1g SAR [W/kg]	Reported Exposure Ratio (1g SAR)	Pict #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	LHPVJ	97.94	-0.05	5775	155	U-NII-3	29.3	16.75	16.31	Back	5	1.010	0.332	1.107	1.021	1.142	0.375	0.714
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	LHPVJ	97.94	0.00	5775	155	U-NII-3	29.3	16.75	16.31	Back	5	0.989	0.116	1.107	1.021	1.128	0.372	0.706
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	LHPVJ	97.94	0.01	5775	155	U-NII-3	29.3	16.75	16.31	Top	5	0.813	0.131	1.107	1.021	0.354	0.125	0.221
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	LHPVJ	97.94	0.04	5775	155	U-NII-3	29.3	16.75	16.31	Bottom	5	0.011	0.007	1.107	1.021	0.024	0.008	0.016
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	LHPVJ	97.94	0.02	5775	155	U-NII-3	29.3	16.75	16.31	Right	5	0.005	0.000	1.107	1.021	0.000	0.000	0.000
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	LHPVJ	97.94	0.04	5775	155	U-NII-3	29.3	16.75	16.31	Left	5	0.183	0.073	1.107	1.021	0.207	0.083	0.129
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 10-108 Antenna 4a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio [SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 30g SAR [W/kg]	Simultaneous Reported 1g SAR [W/kg]	Plot #
Body	5 GHz WWP/ IEEE 802.11ac	80	OFDM	4a	GHPLP	97.94	-0.08	5775	155	U-NI-3	29.3	13.50	13.02	Back	5	0.137	0.043	1.117	1.021	0.590	0.187	0.369	11.90	0.400	0.250		
Body	5 GHz WWP/ IEEE 802.11ac	80	OFDM	4a	GHPLP	97.94	-0.11	5775	155	U-NI-3	29.3	13.50	13.01	Top	5	0.124	0.043	1.117	1.021	0.146	0.049	0.068	11.90	0.300	0.063		
Body	5 GHz WWP/ IEEE 802.11ac	80	OFDM	4a	GHPLP	97.94	-0.07	5775	155	U-NI-3	29.3	13.50	13.00	Left	5	0.067	0.022	1.122	0.023	0.026	0.025	0.068	11.90	0.050	0.031		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																											
Spatial Peak															Body												
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g) averaged over 1 gram												

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Table 10-109 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.04	5270	54	U-NII-2A	13.5	18.50	17.57	Back	5	0.108	0.046	1.239	1.021	0.137	0.058	0.086	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.07	5270	54	U-NII-2A	13.5	18.50	17.57	Top	5	0.002	0.000	1.239	1.021	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.06	5270	54	U-NII-2A	13.5	18.50	17.57	Bottom	5	0.018	0.006	1.239	1.021	0.023	0.008	0.014	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.00	5270	54	U-NII-2A	13.5	18.50	17.57	Right	5	0.584	0.238	1.239	1.021	0.739	0.301	0.462	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.07	5270	54	U-NII-2A	13.5	18.50	17.57	Left	5	0.037	0.016	1.239	1.021	0.047	0.020	0.029	
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 10-110 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.09	5610	122	U-NII-2C	29.3	18.50	17.66	Back	5	0.078	0.032	1.213	1.021	0.097	0.040	0.061	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.09	5610	122	U-NII-2C	29.3	18.50	17.66	Top	5	0.001	0.000	1.213	1.021	0.001	0.000	0.001	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.02	5610	122	U-NII-2C	29.3	18.50	17.66	Bottom	5	0.021	0.008	1.213	1.021	0.036	0.010	0.016	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.00	5530	106	U-NII-2C	29.3	13.30	12.29	Right	5	0.134	0.051	1.262	1.021	0.173	0.068	0.108	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.03	5610	122	U-NII-2C	29.3	18.50	17.66	Right	5	0.538	0.214	1.213	1.021	0.666	0.265	0.416	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.01	5690	138	U-NII-2C	29.3	18.50	17.45	Right	5	0.496	0.195	1.274	1.021	0.645	0.254	0.403	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	495TL	97.94	0.04	5610	122	U-NII-2C	29.3	18.50	17.66	Left	5	0.030	0.012	1.213	1.021	0.037	0.015	0.023	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-111 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	-0.03	5795	159	U-NII-3	13.5	18.50	17.37	Back	5	0.071	0.028	1.297	1.021	0.094	0.037	0.059	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.01	5795	159	U-NII-3	13.5	18.50	17.37	Top	5	0.000	0.000	1.297	1.021	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.01	5795	159	U-NII-3	13.5	18.50	17.37	Bottom	5	0.019	0.003	1.297	1.021	0.025	0.004	0.016	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.00	5755	151	U-NII-3	13.5	18.50	17.30	Right	5	0.418	0.160	1.318	1.021	0.562	0.215	0.351	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.14	5795	159	U-NII-3	13.5	18.50	17.37	Right	5	0.361	0.138	1.297	1.021	0.478	0.183	0.299	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	495TL	97.95	0.04	5795	159	U-NII-3	13.5	18.50	17.37	Left	5	0.022	0.009	1.297	1.021	0.029	0.012	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									

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10.32 6 GHz WIFI SISO Standalone SAR

Table 10-112 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.13	6025	15	68.1	13.50	11.82	Back	5	0.259	0.084	1.472	1.021	0.389	0.126	0.243	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.03	6345	79	68.1	14.25	13.35	Back	5	0.253	0.082	1.230	1.021	0.318	0.103	0.199	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.03	6505	111	68.1	14.00	13.45	Back	5	0.284	0.094	1.135	1.021	0.329	0.109	0.206	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.08	6665	143	68.1	13.25	11.35	Back	5	0.181	0.061	1.549	1.021	0.286	0.096	0.179	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.06	6985	207	68.1	13.70	13.61	Back	5	0.201	0.069	1.021	1.021	0.210	0.072	0.131	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.08	6985	207	68.1	13.70	13.61	Top	5	0.002	0.000	1.021	1.021	0.002	0.000	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.21	6985	207	68.1	13.70	13.61	Bottom	5	0.095	0.033	1.021	1.021	0.099	0.034	0.062	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.03	6985	207	68.1	13.70	13.61	Right	5	0.148	0.051	1.021	1.021	0.154	0.053	0.096	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.08	6985	207	68.1	13.70	13.61	Left	5	0.000	0.000	1.021	1.021	0.000	0.000	0.000	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																						
Spatial Peak														Body 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																						
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.13	6025	15	68.1	13.50	11.82	Back	5	1.920	1.472	1.011	2.857	0.143			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.03	6345	79	68.1	14.25	13.35	Back	5	1.870	1.230	1.011	2.325	0.116			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.03	6505	111	68.1	14.00	13.45	Back	5	2.140	1.135	1.011	2.456	0.123			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.08	6665	143	68.1	13.25	11.35	Back	5	1.380	1.549	1.011	2.161	0.108			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.06	6985	207	68.1	13.70	13.61	Back	5	1.550	1.021	1.011	1.600	0.080			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.08	6985	207	68.1	13.70	13.61	Top	5	0.000	1.021	1.011	0.000	0.000			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	-0.21	6985	207	68.1	13.70	13.61	Bottom	5	0.747	1.021	1.011	0.771	0.039			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.03	6985	207	68.1	13.70	13.61	Right	5	1.140	1.021	1.011	1.177	0.059			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	VG4NX	97.95	0.08	6985	207	68.1	13.70	13.61	Left	5	0.002	1.021	1.011	0.002	0.000			

Table 10-113 Antenna 4a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.01	6025	15	68.1	11.00	9.96	Back	5	0.266	0.090	1.271	1.021	0.345	0.117	0.216	10.30	0.290	0.181	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.02	6345	79	68.1	14.25	13.34	Back	5	0.374	0.121	1.233	1.021	0.471	0.152	0.294	13.55	0.380	0.244	A32
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.06	6505	111	68.1	13.00	12.53	Back	5	0.389	0.119	1.114	1.021	0.498	0.135	0.235	12.30	0.340	0.213	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.06	6665	143	68.1	15.00	11.75	Back	5	0.351	0.107	1.334	1.021	0.428	0.163	0.259	14.30	0.400	0.250	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.10	6985	207	68.1	15.25	14.28	Back	5	0.290	0.106	1.250	1.021	0.370	0.135	0.231	14.55	0.330	0.194	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.09	6985	207	68.1	15.25	14.28	Top	5	0.142	0.049	1.250	1.021	0.185	0.063	0.113	14.55	0.150	0.094	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.06	6985	207	68.1	15.25	14.28	Bottom	5	0.013	0.005	1.250	1.021	0.017	0.006	0.011	14.55	0.010	0.006	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.05	6985	207	68.1	15.25	14.28	Right	5	0.002	0.000	1.250	1.021	0.003	0.000	0.002	14.55	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.09	6985	207	68.1	15.25	14.28	Left	5	0.191	0.066	1.250	1.021	0.244	0.084	0.153	14.55	0.200	0.125	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																									
Spatial Peak														Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																									
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #					
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.01	6025	15	68.1	11.00	9.96	Back	5	2.030	1.271	1.011	2.609	0.130						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.02	6345	79	68.1	14.25	13.34	Back	5	2.750	1.233	1.011	3.428	0.171						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.06	6505	111	68.1	13.00	12.53	Back	5	2.710	1.114	1.011	3.052	0.153						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.06	6665	143	68.1	15.00	13.75	Back	5	2.700	1.334	1.011	3.643	0.182						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.10	6985	207	68.1	15.25	14.28	Back	5	2.370	1.250	1.011	2.985	0.150						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.09	6985	207	68.1	15.25	14.28	Top	5	1.110	1.250	1.011	1.403	0.070						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.06	6985	207	68.1	15.25	14.28	Bottom	5	0.106	1.250	1.011	0.134	0.007						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.05	6985	207	68.1	15.25	14.28	Right	5	0.022	1.250	1.011	0.028	0.001						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	7ICFD	97.95	0.09	6985	207	68.1	15.25	14.28	Left	5	1.470	1.250	1.011	1.858	0.093						

Table 10-114 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.08	6025	15	68.1	14.75	14.12	Back	5	0.035	0.013	1.156	1.021	0.041	0.015	0.026	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.08	6025	15	68.1	14.75	14.12	Top	5	0.002	0.001	1.156	1.021	0.002	0.001	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.02	6025	15	68.1	14.75	14.12	Bottom	5	0.024	0.007	1.156	1.021	0.028	0.008	0.018	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	-0.04	6025	15	68.1	14.75	14.12	Right	5	0.246	0.095	1.156	1.021	0.290	0.112	0.181	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.08	6345	79	68.1	14.75	13.66	Right	5	0.246	0.091	1.285	1.021	0.323	0.119	0.202	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	-0.10	6505	111	68.1	13.50	13.08	Right	5	0.284	0.106	1.102	1.021	0.320	0.119	0.200	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	-0.02	6665	143	68.1	13.90	12.75	Right	5	0.240	0.091	1.303	1.021	0.319	0.121	0.199	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.12	6985	207	68.1	13.25	12.93	Right	5	0.289	0.107	1.076	1.021	0.317	0.118	0.198	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.04	6025	15	68.1	14.75	14.12	Left	5	0.016	0.007	1.156	1.021	0.019	0.008	0.012	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																						
Spatial Peak														Body 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																						
Exposure	Band/Mode	Bandwidth [MHz]	Service/Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (cm ²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.08	6025	15	68.1	14.75	14.12	Back	5	0.037	1.156	1.011	0.335	0.017			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.08	6025	15	68.1	14.75	14.12	Top	5	0.023	1.156	1.011	0.027	0.001			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.02	6025	15	68.1	14.75	14.12	Bottom	5	0.162	1.156	1.011	0.189	0.009			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	-0.04	6025	15	68.1	14.75	14.12	Right	5	2.110	1.156	1.011	2.466	0.123			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.08	6345	79	68.1	14.75	13.66	Right	5	2.040	1.156	1.011	2.603	0.133			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	-0.10	6505	111	68.1	13.50	13.08	Right	5	2.380	1.102	1.011	2.652	0.133			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	-0.02	6665	143	68.1	13.90	12.75	Right	5	2.020	1.303	1.011	2.661	0.133			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.12	6985	207	68.1	13.25	12.93	Right	5	2.410	1.076	1.011	2.622	0.131			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	7ICFD	97.95	0.04	6025	15	68.1	14.75	14.12	Left	5	0.153	1.156	1.011	0.179	0.009			

10.33 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-115 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	0.01	2480	78	1	18.00	17.57	Back	5	0.534	0.275	1.104	1.303	0.768	0.396	0.480	
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	-0.12	2480	78	1	18.00	17.57	Top	5	0.024	0.013	1.104	1.303	0.035	0.019	0.022	
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	0.05	2480	78	1	18.00	17.57	Bottom	5	0.295	0.123	1.104	1.303	0.424	0.177	0.265	
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	0.12	2480	78	1	18.00	17.57	Right	5	0.497	0.241	1.104	1.303	0.715	0.367	0.487	
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	0.05	2480	78	1	18.00	17.57	Left	5	0.001	0.000	1.104	1.303	0.001	0.000	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body			
Spatial Peak																		1.6 W/kg (mW/g)			
Uncontrolled Exposure/General Population																		averaged over 1 gram			

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-116 Antenna 2a Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	-0.02	2480	78	1	16.70	16.10	Back	5	0.355	0.177	1.148	1.303	0.531	0.265	0.332	15.50	0.400	0.250	
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	-0.03	2480	78	1	16.70	16.10	Bottom	5	0.146	0.058	1.148	1.303	0.218	0.087	0.136	15.50	0.160	0.100	
Body	2.4 GHz Bluetooth	FHSS	2a	TQCW4	76.76	-0.02	2480	78	1	16.70	16.10	Right	5	0.282	0.130	1.148	1.303	0.422	0.194	0.264	15.50	0.320	0.200	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		1.6 W/kg (mW/g)						
Spatial Peak																		averaged over 1 gram						
Uncontrolled Exposure/General Population																								

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-117 Antenna 4a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.05	2402	0	1	17.50	16.93	Back	5	0.657	0.360	1.140	1.303	0.976	0.535	0.610	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.05	2441	39	1	17.50	16.68	Back	5	0.427	0.230	1.208	1.303	0.672	0.362	0.420	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	-0.01	2480	78	1	17.50	16.87	Back	5	0.742	0.401	1.156	1.303	1.117	0.604	0.698	A33
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.03	2402	0	1	17.50	16.93	Top	5	0.299	0.122	1.140	1.303	0.444	0.181	0.278	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.07	2402	0	1	17.50	16.93	Bottom	5	0.027	0.014	1.140	1.303	0.040	0.021	0.025	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.03	2402	0	1	17.50	16.93	Right	5	0.004	0.001	1.140	1.303	0.006	0.001	0.004	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	-0.01	2402	0	1	17.50	16.93	Left	5	0.581	0.278	1.140	1.303	0.863	0.413	0.539	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.04	2441	39	1	17.50	16.68	Left	5	0.348	0.165	1.208	1.303	0.548	0.260	0.343	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	-0.01	2480	78	1	17.50	16.87	Left	5	0.615	0.293	1.156	1.303	0.926	0.441	0.579	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body							
Spatial Peak														1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population														averaged over 1 gram							

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-118 Antenna 4a Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.03	2402	0	1	16.70	16.03	Back	5	0.391	0.194	1.167	1.303	0.594	0.295	0.371	15.00	0.400	0.250	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.05	2402	0	1	16.70	16.03	Top	5	0.210	0.081	1.167	1.303	0.319	0.156	0.199	15.00	0.210	0.131	
Body	2.4 GHz Bluetooth	FHSS	4a	495TL	76.76	0.03	2402	0	1	16.70	16.03	Left	5	0.317	0.149	1.167	1.303	0.482	0.227	0.301	15.00	0.320	0.200	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

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10.34 802.15.4 Standalone SAR

Table 10-119 Antenna 2a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	2a	TQCW4	0.01	2405	11	1	19.50	17.75	Back	5	0.613	0.326	1.496	0.917	0.488	0.573	
Body	802.15.4	2a	TQCW4	0.04	2440	18	1	19.50	17.74	Back	5	0.670	0.352	1.500	1.005	0.528	0.628	
Body	802.15.4	2a	TQCW4	0.04	2475	25	1	19.50	17.83	Back	5	0.593	0.316	1.469	0.871	0.464	0.544	
Body	802.15.4	2a	TQCW4	0.03	2440	18	1	19.50	17.74	Top	5	0.025	0.013	1.500	0.038	0.020	0.024	
Body	802.15.4	2a	TQCW4	0.03	2440	18	1	19.50	17.74	Bottom	5	0.269	0.112	1.500	0.404	0.168	0.253	
Body	802.15.4	2a	TQCW4	0.00	2405	11	1	19.50	17.75	Right	5	0.552	0.259	1.496	0.826	0.387	0.516	
Body	802.15.4	2a	TQCW4	-0.04	2440	18	1	19.50	17.74	Right	5	0.569	0.276	1.500	0.854	0.414	0.534	
Body	802.15.4	2a	TQCW4	0.01	2475	25	1	19.50	17.83	Right	5	0.526	0.250	1.469	0.773	0.367	0.483	
Body	802.15.4	2a	TQCW4	0.01	2440	18	1	19.50	17.74	Left	5	0.002	0.000	1.500	0.003	0.000	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body							
Spatial Peak											1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population											averaged over 1 gram							

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-120 Antenna 2a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	2a	TQCW4	0.00	2475	25	1	16.70	16.21	Back	5	0.491	0.243	1.119	0.549	0.272	0.343	15.40	0.400	0.250	
Body	802.15.4	2a	TQCW4	0.00	2475	25	1	16.70	16.21	Bottom	5	0.177	0.071	1.119	0.198	0.079	0.124	15.40	0.140	0.088	
Body	802.15.4	2a	TQCW4	0.00	2475	25	1	16.70	16.21	Right	5	0.441	0.199	1.119	0.493	0.223	0.308	15.40	0.360	0.225	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-121 Antenna 4a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	4a	QHPQL	-0.08	2405	11	1	19.50	17.57	Back	5	0.725	0.383	1.560	1.131	0.597	0.707	
Body	802.15.4	4a	QHPQL	0.01	2440	18	1	19.50	17.61	Back	5	0.757	0.411	1.545	1.170	0.635	0.731	A34
Body	802.15.4	4a	QHPQL	-0.01	2475	25	1	19.50	17.60	Back	5	0.706	0.378	1.549	1.094	0.586	0.684	
Body	802.15.4	4a	QHPQL	0.02	2440	18	1	19.50	17.61	Top	5	0.315	0.128	1.545	0.487	0.198	0.304	
Body	802.15.4	4a	QHPQL	0.09	2440	18	1	19.50	17.61	Bottom	5	0.025	0.013	1.545	0.039	0.020	0.024	
Body	802.15.4	4a	QHPQL	0.04	2440	18	1	19.50	17.61	Right	5	0.001	0.000	1.545	0.002	0.000	0.001	
Body	802.15.4	4a	QHPQL	0.00	2405	11	1	19.50	17.57	Left	5	0.588	0.277	1.560	0.917	0.432	0.573	
Body	802.15.4	4a	QHPQL	-0.05	2440	18	1	19.50	17.61	Left	5	0.594	0.282	1.545	0.918	0.436	0.574	
Body	802.15.4	4a	QHPQL	-0.01	2475	25	1	19.50	17.60	Left	5	0.517	0.249	1.549	0.801	0.386	0.501	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body							
Spatial Peak											1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population											averaged over 1 gram							

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-122 Antenna 4a Reduced

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	4a	QHPQL	-0.01	2440	18	1	16.50	15.63	Back	0	0.472	0.242	1.222	0.577	0.296	0.361	15.00	0.400	0.250	
Body	802.15.4	4a	QHPQL	0.00	2440	18	1	16.50	15.63	Top	0	0.170	0.069	1.222	0.208	0.084	0.130	15.00	0.140	0.088	
Body	802.15.4	4a	QHPQL	-0.02	2440	18	1	16.50	15.63	Left	0	0.391	0.183	1.222	0.478	0.224	0.299	15.00	0.330	0.206	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

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10.35 NB U-NII 1 Standalone SAR

Table 10-123 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	2a	9QJHD	78.25	-0.03	5204	Mid	8	12.50	12.02	Back	5	0.221	0.073	1.117	0.315	0.104	0.197	
Body	NB U-NII 1	HDR	2a	9QJHD	78.25	0.09	5204	Mid	8	12.50	12.02	Top	5	0.006	0.000	1.117	0.009	0.000	0.006	
Body	NB U-NII 1	HDR	2a	9QJHD	78.25	-0.18	5204	Mid	8	12.50	12.02	Bottom	5	0.042	0.013	1.117	0.060	0.019	0.038	
Body	NB U-NII 1	HDR	2a	9QJHD	78.25	-0.10	5204	Mid	8	12.50	12.02	Right	5	0.052	0.016	1.117	0.074	0.023	0.046	
Body	NB U-NII 1	HDR	2a	9QJHD	78.25	0.09	5204	Mid	8	12.50	12.02	Left	5	0.000	0.000	1.117	0.000	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								

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-124 Antenna 4a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	4a	9QJHD	78.25	0.04	5162	Low	8	13.50	13.60	Back	5	0.199	0.065	1.230	0.299	0.102	0.187	
Body	NB U-NII 1	HDR	4a	9QJHD	78.25	-0.08	5162	Low	8	13.50	13.60	Top	5	0.061	0.022	1.230	0.095	0.035	0.060	
Body	NB U-NII 1	HDR	4a	9QJHD	78.25	0.01	5162	Low	8	13.50	13.60	Bottom	5	0.000	0.000	1.230	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	4a	9QJHD	78.25	0.09	5162	Low	8	13.50	13.60	Right	5	0.000	0.000	1.230	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	4a	9QJHD	78.25	-0.17	5162	Low	8	13.50	13.60	Left	5	0.052	0.019	1.230	0.082	0.030	0.051	
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: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-125 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	WF5B	9QJHD	78.25	0.01	5245	High	8	12.50	12.03	Back	5	0.017	0.005	1.114	0.024	0.007	0.015	
Body	NB U-NII 1	HDR	WF5B	9QJHD	78.25	0.06	5245	High	8	12.50	12.03	Top	5	0.000	0.000	1.114	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF5B	9QJHD	78.25	0.03	5245	High	8	12.50	12.03	Bottom	5	0.003	0.000	1.114	0.004	0.000	0.003	
Body	NB U-NII 1	HDR	WF5B	9QJHD	78.25	0.01	5245	High	8	12.50	12.03	Right	5	0.114	0.045	1.114	0.162	0.064	0.101	
Body	NB U-NII 1	HDR	WF5B	9QJHD	78.25	0.03	5245	High	8	12.50	12.03	Left	5	0.000	0.000	1.114	0.000	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								

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

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10.36 NB U-NII 3 Standalone SAR

Table 10-126 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	-0.02	5844	High	1	18.00	16.79	Back	5	0.652	0.218	1.321	1.123	0.375	0.702	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	0.07	5733	Low	1	18.00	16.77	Back	5	0.624	0.211	1.327	1.080	0.365	0.675	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	-0.02	5789	Mid	1	18.00	17.01	Back	5	0.655	0.220	1.256	1.073	0.360	0.671	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	0.04	5789	Mid	1	18.00	17.01	Top	5	0.006	0.000	1.256	0.010	0.000	0.006	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	0.02	5789	Mid	1	18.00	17.01	Bottom	5	0.173	0.064	1.256	0.283	0.105	0.177	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	-0.19	5789	Mid	1	18.00	17.01	Right	5	0.098	0.038	1.256	0.160	0.062	0.100	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	0.07	5789	Mid	1	18.00	17.01	Left	5	0.000	0.000	1.256	0.000	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						

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-127 Antenna 2a Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	-0.15	5789	Mid	1	15.20	14.15	Back	5	0.330	0.107	1.274	0.548	0.178	0.343	13.90	0.400	0.250	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	-0.06	5789	Mid	1	15.20	14.15	Bottom	5	0.088	0.032	1.274	0.146	0.053	0.091	13.90	0.110	0.069	
Body	NB U-NII 3	FHSS	2a	9QJHD	76.70	0.04	5789	Mid	1	15.20	14.15	Right	5	0.043	0.014	1.274	0.071	0.023	0.044	13.90	0.050	0.031	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							
Spatial Peak														Body									
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram									

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-128 Antenna 4a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	0.12	5844	High	1	16.50	15.99	Back	5	0.657	0.213	1.125	0.963	0.312	0.602	A35
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	-0.03	5733	Low	1	16.50	15.78	Back	5	0.791	0.241	1.180	1.124	0.370	0.703	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	0.03	5789	Mid	1	16.50	15.91	Back	5	0.713	0.232	1.146	1.064	0.346	0.665	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	0.10	5844	High	1	16.50	15.99	Top	5	0.187	0.067	1.125	0.274	0.098	0.171	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	0.02	5844	High	1	16.50	15.99	Bottom	5	0.023	0.007	1.125	0.034	0.010	0.021	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	0.02	5844	High	1	16.50	15.99	Right	5	0.000	0.000	1.125	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.76	0.06	5844	High	1	16.50	15.99	Left	5	0.092	0.035	1.125	0.135	0.051	0.084	
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: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-129 Antenna 4a Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	4a	9QJHD	76.70	0.06	5789	Mid	1	13.70	13.31	Back	5	0.366	0.117	1.094	0.522	0.167	0.326	12.60	0.400	0.250	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.70	0.01	5789	Mid	1	13.70	13.31	Top	5	0.094	0.032	1.094	0.134	0.046	0.084	12.60	0.100	0.063	
Body	NB U-NII 3	FHSS	4a	9QJHD	76.70	0.06	5789	Mid	1	13.70	13.31	Left	5	0.095	0.022	1.094	0.078	0.031	0.049	12.60	0.060	0.038	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak														Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																							

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-130 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	WF5B	9QJHD	76.70	-0.03	5844	High	1	18.50	17.65	Back	5	0.045	0.017	1.216	0.071	0.027	0.044	
Body	NB U-NII 3	FHSS	WF5B	9QJHD	76.70	0.04	5844	High	1	18.50	17.65	Top	5	0.000	0.000	1.216	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	9QJHD	76.70	0.04	5844	High	1	18.50	17.65	Bottom	5	0.010	0.002	1.216	0.016	0.003	0.010	
Body	NB U-NII 3	FHSS	WF5B	9QJHD	76.70	0.06	5844	High	1	18.50	17.65	Right	5	0.367	0.142	1.216	0.582	0.225	0.364	
Body	NB U-NII 3	FHSS	WF5B	9QJHD	76.70	0.09	5844	High	1	18.50	17.65	Left	5	0.026	0.008	1.216	0.041	0.013	0.026	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

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10.37 NB U-NII 5 Standalone SAR

Table 10-131 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.02	6417	High	8	0.50	-1.22	Back	5	0.004	0.001	1.486	0.007	0.002	0.004	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.19	6109	Low	8	0.50	0.15	Back	5	0.007	0.001	1.084	0.009	0.001	0.006	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.07	6186	Low-Mid	8	0.50	0.48	Back	5	0.005	0.001	1.005	0.006	0.001	0.004	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.07	6263	Mid	8	0.50	0.02	Back	5	0.004	0.000	1.117	0.006	0.000	0.004	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.03	6340	Mid-High	8	0.50	-0.52	Back	5	0.002	0.000	1.265	0.003	0.000	0.002	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.09	6186	Low-Mid	8	0.50	0.48	Top	5	0.000	0.000	1.005	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.08	6186	Low-Mid	8	0.50	0.48	Bottom	5	0.003	0.001	1.005	0.004	0.001	0.003	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.09	6186	Low-Mid	8	0.50	0.48	Right	5	0.000	0.000	1.005	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.04	6186	Low-Mid	8	0.50	0.48	Left	5	0.000	0.000	1.005	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak Uncontrolled Exposure/General Population																				
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.02	6417	High	8	0.50	-1.22	Back	5	0.029	1.486	0.054	0.003			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.19	6109	Low	8	0.50	0.15	Back	5	0.034	1.084	0.046	0.002			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.07	6186	Low-Mid	8	0.50	0.48	Back	5	0.035	1.005	0.044	0.002			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.07	6263	Mid	8	0.50	0.02	Back	5	0.013	1.117	0.018	0.001			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.03	6340	Mid-High	8	0.50	-0.52	Back	5	0.015	1.265	0.024	0.001			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.09	6186	Low-Mid	8	0.50	0.48	Top	5	0.000	1.005	0.000	0.000			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.08	6186	Low-Mid	8	0.50	0.48	Bottom	5	0.023	1.005	0.029	0.001			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.09	6186	Low-Mid	8	0.50	0.48	Right	5	0.000	1.005	0.000	0.000			
Body	NB U-NII 5	HDR	2a	VG4NX	80.00	0.04	6186	Low-Mid	8	0.50	0.48	Left	5	0.001	1.005	0.001	0.000			

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 10-132 Antenna 4a

Exposure	Band / Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.05	6417	High	8	2.00	1.07	Back	5	0.014	0.003	1.239	0.022	0.005	0.014	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.05	6109	Low	8	2.00	1.55	Back	5	0.023	0.007	1.109	0.032	0.010	0.020	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.07	6186	Low-Mid	8	2.00	1.85	Back	5	0.017	0.004	1.035	0.022	0.005	0.014	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.01	6263	Mid	8	2.00	1.56	Back	5	0.012	0.003	1.107	0.017	0.004	0.011	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	-0.03	6340	Mid-High	8	2.00	1.49	Back	5	0.013	0.004	1.125	0.018	0.006	0.011	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.08	6186	Low-Mid	8	2.00	1.85	Top	5	0.007	0.002	1.035	0.009	0.003	0.006	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.02	6186	Low-Mid	8	2.00	1.85	Bottom	5	0.000	0.000	1.035	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.07	6186	Low-Mid	8	2.00	1.85	Right	5	0.000	0.000	1.035	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.04	6186	Low-Mid	8	2.00	1.85	Left	5	0.000	0.000	1.035	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																				
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.05	6417	High	8	2.00	1.07	Back	5	0.074	1.239	0.115	0.006			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.05	6109	Low	8	2.00	1.55	Back	5	0.154	1.109	0.213	0.011			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.07	6186	Low-Mid	8	2.00	1.85	Back	5	0.105	1.035	0.136	0.007			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.01	6263	Mid	8	2.00	1.56	Back	5	0.071	1.107	0.098	0.005			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	-0.03	6340	Mid-High	8	2.00	1.49	Back	5	0.097	1.125	0.136	0.007			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.08	6186	Low-Mid	8	2.00	1.85	Top	5	0.047	1.035	0.061	0.003			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.02	6186	Low-Mid	8	2.00	1.85	Bottom	5	0.007	1.035	0.009	0.000			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.07	6186	Low-Mid	8	2.00	1.85	Right	5	0.000	1.035	0.000	0.000			
Body	NB U-NII 5	HDR	4a	VG4NX	80.00	0.04	6186	Low-Mid	8	2.00	1.85	Left	5	0.000	1.035	0.000	0.000			

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

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Table 10-133 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.09	6186	Low-Mid	8	-0.25	-0.39	Back	5	0.000	0.000	1.033	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.02	6186	Low-Mid	8	-0.25	-0.39	Top	5	0.000	0.000	1.033	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.01	6186	Low-Mid	8	-0.25	-0.39	Bottom	5	0.001	0.001	1.033	0.001	0.001	0.001	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.05	6417	High	8	-0.25	-1.93	Right	5	0.002	0.000	1.472	0.002	0.000	0.001	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.06	6109	Low	8	-0.25	-0.71	Right	5	0.006	0.001	1.112	0.008	0.001	0.005	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.04	6186	Low-Mid	8	-0.25	-0.39	Right	5	0.003	0.000	1.033	0.004	0.000	0.003	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.09	6263	Mid	8	-0.25	-0.85	Right	5	0.004	0.000	1.148	0.006	0.000	0.004	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	-0.07	6340	Mid-High	8	-0.25	-1.46	Right	5	0.000	0.000	1.321	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.07	6186	Low-Mid	8	-0.25	-0.39	Left	5	0.000	0.000	1.033	0.000	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								
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.09	6186	Low-Mid	8	-0.25	-0.39	Back	5	0.004	1.033	0.005	0.000			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.02	6186	Low-Mid	8	-0.25	-0.39	Top	5	0.004	1.033	0.005	0.000			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.01	6186	Low-Mid	8	-0.25	-0.39	Bottom	5	0.024	1.033	0.031	0.002			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.05	6417	High	8	-0.25	-1.93	Right	5	0.015	1.472	0.028	0.001			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.06	6109	Low	8	-0.25	-0.71	Right	5	0.029	1.112	0.040	0.002			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.04	6186	Low-Mid	8	-0.25	-0.39	Right	5	0.013	1.033	0.017	0.001			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.09	6263	Mid	8	-0.25	-0.85	Right	5	0.017	1.148	0.024	0.001			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	-0.07	6340	Mid-High	8	-0.25	-1.46	Right	5	0.000	1.321	0.000	0.000			
Body	NB U-NII 5	HDR	WF5B	VG4NX	80.00	0.07	6186	Low-Mid	8	-0.25	-0.39	Left	5	0.005	1.033	0.006	0.000			

Note: The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

10.38 WPT Standalone SAR

Table 10-134 Antenna WPT

Exposure	Band / Mode	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	WPT	QHPQL	0.01	13.60	Back	5	0.002	0.000	0.001	A36
Body	WPT	QHPQL	0.01	13.60	Top	5	0.000	0.000	0.000	
Body	WPT	QHPQL	0.07	13.60	Bottom	5	0.000	0.000	0.000	
Body	WPT	QHPQL	0.01	13.60	Right	5	0.000	0.000	0.000	
Body	WPT	QHPQL	0.08	13.60	Left	5	0.000	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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10.39 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 D04v01.
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 D04v01.
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 11 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 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device uses time-averaged method of Tx power control for connectivity radios (WIFI, Bluetooth, and 802.15.4) and manages transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition..
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR were not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D04v01, 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 D04v01, when the reported LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given 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 condition. Please see Section 12 for linearity results.
8. For LTE Band 5, 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. The 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 D04v01, when the reported SAR measured at the highest output power channel in a given 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 Time-Averaged SAR Validation FCC Licensed TAS 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 and Power Class 3 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 D04v01 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/NB UNII Notes

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor. See Section 7.11 and 7.19 for the time domain plot and calculation for the duty factor of the device.

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10.40 Power Density Data

Table 10-135 6 GHz SISO

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6665	143	802.11ax	OFDM	160	14.00	12.75	-0.17	2	WFSB	7JCDF	68.1	Right	97.95	0.041	1.440	1.554	1.334	1.021	2.720	5.757	3.350	7.09	A37
6665	143	802.11ax	OFDM	160	14.00	12.75	0.21	9	WFSB	7JCDF	68.1	Right	97.95	0.041	1.260	1.554	1.334	1.021	1.590	3.365	1.810	3.83	
6665	143	802.11ax	OFDM	160	15.00	13.75	0.08	2	4a	7JCDF	68.1	Back	97.95	0.041	1.260	1.554	1.334	1.021	2.820	5.969	3.330	7.05	
6665	143	802.11ax	OFDM	160	15.00	13.75	0.03	9	4a	7JCDF	68.1	Back	97.95	0.041	0.946	1.554	1.334	1.021	1.390	2.942	1.530	3.24	
6025	15	802.11ax	OFDM	160	13.50	11.82	-0.07	2	2a	7JCDF	68.1	Back	97.95	0.041	0.792	1.554	1.472	1.021	2.370	5.535	3.000	7.01	
6025	15	802.11ax	OFDM	160	13.50	11.82	-0.01	9.95	2a	7JCDF	68.1	Back	97.95	0.041	0.567	1.554	1.472	1.021	0.887	2.072	0.970	2.27	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²													

Table 10-136 NB U-NII 5

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6109	Low	NB U-NII 5	HDR	8	-0.25	-0.71	0.07	2	WFSB	VG4NK	8	Right	80.00	0.041	0.183	1.554	1.112	1.554	0.244	0.527	0.257	0.56	
6109	Low	NB U-NII 5	HDR	8	-0.25	-0.71	-0.08	9.82	WFSB	VG4NK	8	Right	80.00	0.041	0.129	1.554	1.112	1.554	0.133	0.287	0.136	0.29	
6109	Low	NB U-NII 5	HDR	8	2.00	1.55	0.04	2	4a	VG4NK	8	Back	80.00	0.041	0.233	1.554	1.109	1.554	0.432	0.931	0.486	1.05	A38
6109	Low	NB U-NII 5	HDR	8	2.00	1.55	0.02	9.82	4a	VG4NK	8	Back	80.00	0.041	0.173	1.554	1.109	1.554	0.170	0.366	0.191	0.41	
6109	Low	NB U-NII 5	HDR	8	0.50	0.15	0.02	2	2a	VG4NK	8	Back	80.00	0.041	0.168	1.554	1.084	1.554	0.275	0.579	0.292	0.61	
6109	Low	NB U-NII 5	HDR	8	0.50	0.15	0.10	9.82	2a	VG4NK	8	Back	80.00	0.041	0.058	1.554	1.084	1.554	0.083	0.175	0.089	0.19	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population									Power Density 10 W/m² averaged over 4 cm²														

10.41 Power Density Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at d=2mm and d= $\lambda/5$ mm using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is ≥ -1 dB, the grid step was sufficient for determining compliance at d=2mm.
7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
8. PTP-PR algorithm was used during psPD measurement and calculations.

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11 SAR MEASUREMENT VARIABILITY

11.1 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 11-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	(W/kg)
750	782.0	23230	LTE Band 13, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	3	N/A	Back	5mm	0.974	0.972	1.00	N/A	N/A
835	836.5	167300	NR Band n5, 20 MHz Bandwidth	CP-OFDM, QPSK, 1 RB 1RB Offset	3	N/A	Back	5mm	1.010	0.997	1.01	N/A	N/A
1750	1712.4	1312	UMTS 1750	RMC	3	N/A	Back	5mm	1.040	1.030	1.01	N/A	N/A
1900	1907.6	9538	UMTS 1900	RMC	2b	N/A	Bottom	5mm	1.120	1.100	1.02	N/A	N/A
2300	2310	462000	NR band n30, 10 MHz Bandwidth	CP-OFDM, QPSK, 1 RB 1RB Offset	3	N/A	Back	5mm	1.090	1.010	1.08	N/A	N/A
2450	2560	21350	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB 50 RB Offset	1	N/A	Back	5mm	1.060	1.020	1.04	N/A	N/A
2600	2593	518598	NR band n41, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 270 RB 0 RB Offset	2b	N/A	Back	5mm	1.120	1.040	1.08	N/A	N/A
3500	3500.01	633334	NR Band n77 DoD, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB 1RB Offset	1	N/A	Back	5mm	1.050	0.983	1.07	N/A	N/A
3700	3750	650000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 270 RB 0 RB Offset	2b	N/A	Bottom	5mm	1.020	0.958	1.06	N/A	N/A
3900	3930	662000	NR Band n77, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB 1RB Offset	1	N/A	Left	5mm	1.070	1.040	1.03	N/A	N/A
5250	5270	54	5 GHz WIFV IEEE 802.11n, 40 MHz Bandwidth	OFDM	2a	13.5	Back	5mm	0.970	0.956	1.01	N/A	N/A
5600	5610	122	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	2a	29.3	Back	5mm	1.090	0.997	1.09	N/A	N/A
5750	5775	155	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	4a	29.3	Back	5mm	1.010	0.999	1.01	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				

11.2 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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12 ADDITIONAL TESTING PER FCC GUIDANCE

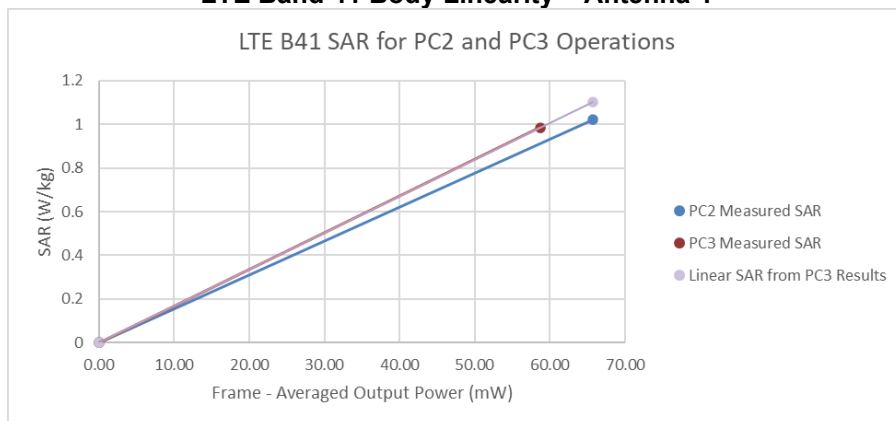
12.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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 12-1
LTE Band 41 Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.4	22.0
Measured Output Power (dBm)	19.67	21.81
Measured SAR (W/kg)	0.984	1.020
Measured Power (mW)	92.68	151.71
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	58.67	65.69
% deviation from expected linearity		-7.42%

Figure 12-1
LTE Band 41 Body Linearity – Antenna 1



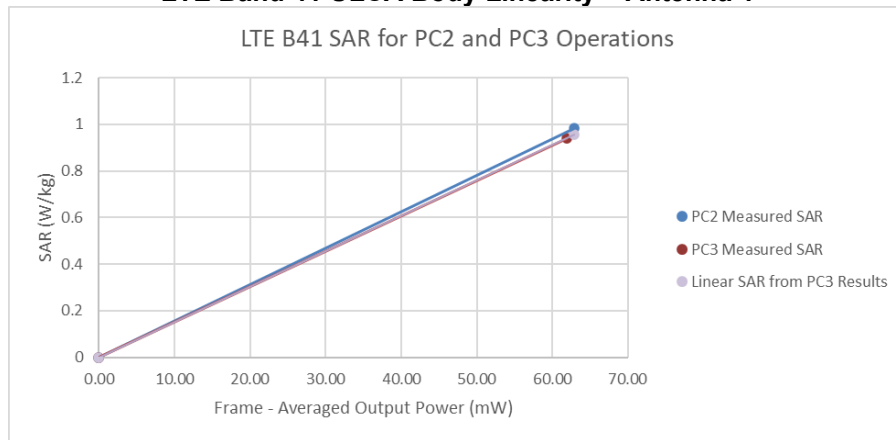
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Table 12-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.4	22.0
Measured Output Power (dBm)	19.90	21.62
Measured SAR (W/kg)	0.939	0.982
Measured Power (mW)	97.72	145.21
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	61.86	62.88
% deviation from expected linearity		2.89%

Figure 12-2
LTE Band 41 ULCA Body Linearity – Antenna 1



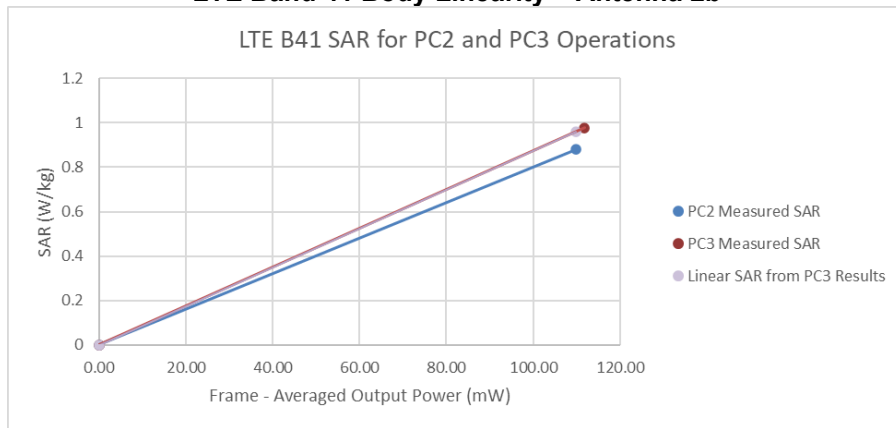
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Table 12-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.0	24.6
Measured Output Power (dBm)	22.47	24.04
Measured SAR (W/kg)	0.977	0.880
Measured Power (mW)	176.60	253.51
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	111.79	109.77
% deviation from expected linearity		-8.27%

Figure 12-3
LTE Band 41 Body Linearity – Antenna 2b



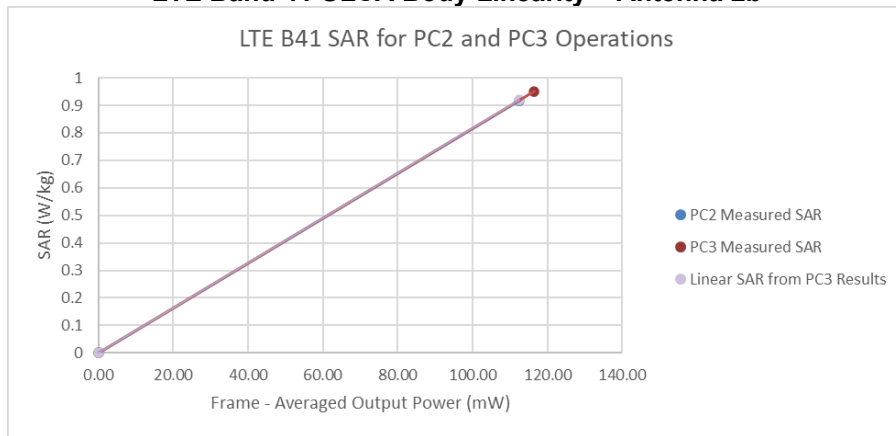
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Table 12-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.0	24.6
Measured Output Power (dBm)	22.65	24.15
Measured SAR (W/kg)	0.951	0.917
Measured Power (mW)	184.08	260.02
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	116.52	112.59
% deviation from expected linearity		-0.21%

Figure 12-4
LTE Band 41 ULCA Body Linearity – Antenna 2b



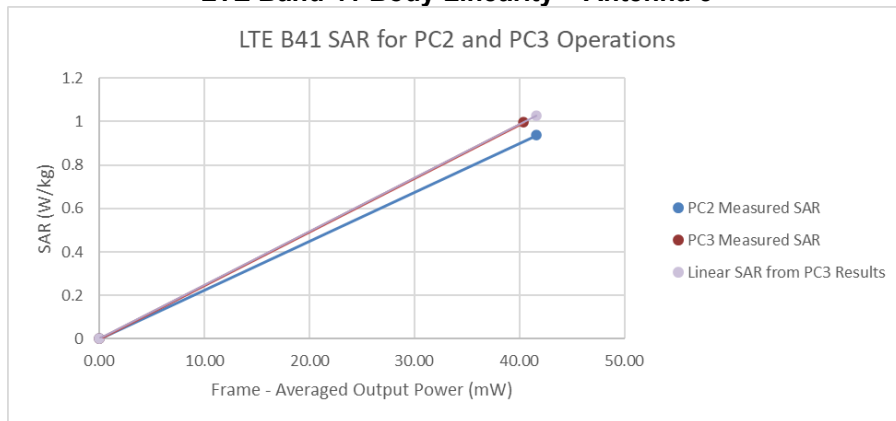
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Table 12-5
LTE Band 41 Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	18.8	20.4
Measured Output Power (dBm)	18.05	19.83
Measured SAR (W/kg)	0.996	0.938
Measured Power (mW)	63.83	96.16
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	40.40	41.64
% deviation from expected linearity		-8.62%

Figure 12-5
LTE Band 41 Body Linearity – Antenna 3



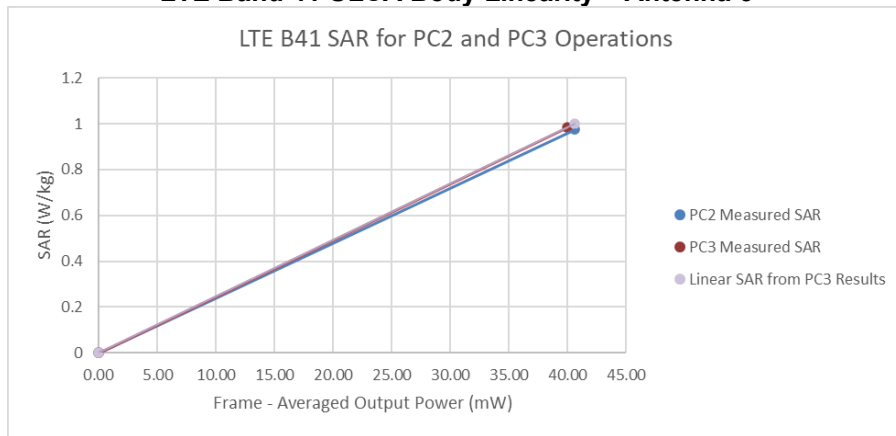
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Table 12-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	18.8	20.4
Measured Output Power (dBm)	18.00	19.72
Measured SAR (W/kg)	0.983	0.975
Measured Power (mW)	63.10	93.76
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	39.94	40.60
% deviation from expected linearity		-2.42%

Figure 12-6
LTE Band 41 ULCA Body Linearity – Antenna 3



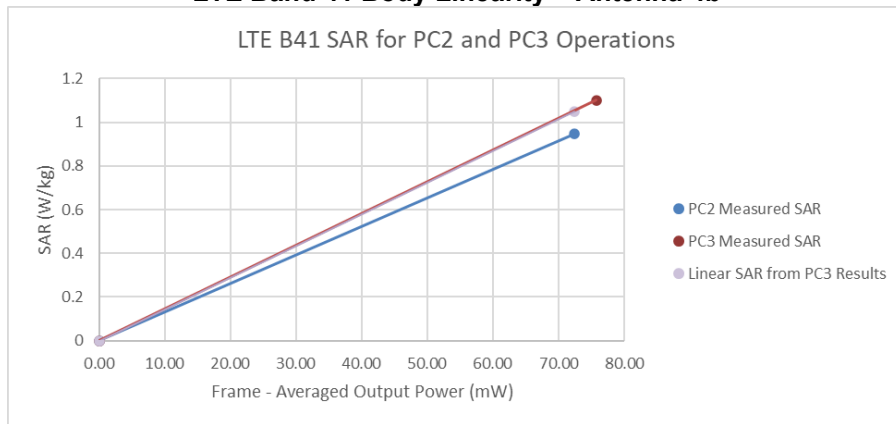
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Table 12-7
LTE Band 41 Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.1	22.7
Measured Output Power (dBm)	20.78	22.23
Measured SAR (W/kg)	1.100	0.947
Measured Power (mW)	119.67	167.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	75.75	72.36
% deviation from expected linearity		-9.87%

Figure 12-7
LTE Band 41 Body Linearity – Antenna 4b



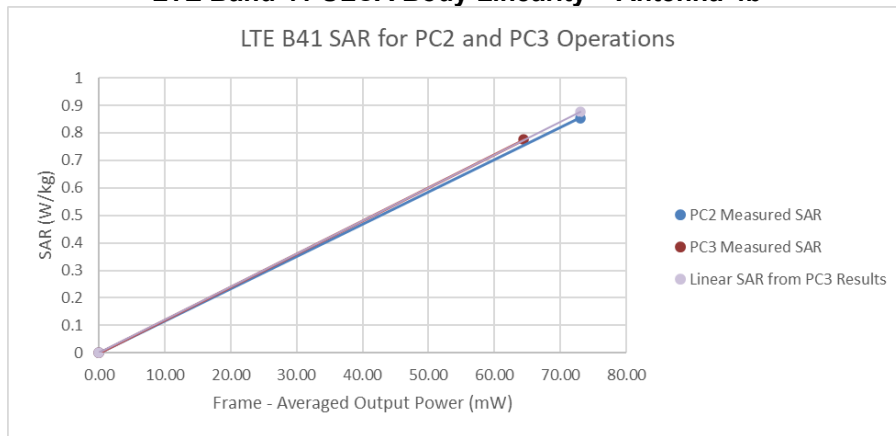
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Table 12-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.1	22.7
Measured Output Power (dBm)	20.08	22.27
Measured SAR (W/kg)	0.775	0.854
Measured Power (mW)	101.86	168.66
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	64.48	73.03
% deviation from expected linearity		-2.71%

Figure 12-8
LTE Band 41 ULCA Body Linearity – Antenna 4b



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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MM4511342
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MM45092852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MM45092078
Agilent	N5182A	MWG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MM48180366
Agilent	8753ES	5-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MM40001472
Agilent	8753ES	5-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MM40003841
Agilent	ES515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	ES515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	390132
Anritsu	MM1110B	V/O Adaptor	CBT	N/A	CBT	6261767851
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	ML2495A	Power Meter	7/3/2025	Annual	7/3/2026	1039008
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027793
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245494
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Mini-Circuits	PWR-4GH5	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	1250327057
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171099
Control Company	4040	Therm / Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240303080
Control Company	4040	Therm / Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm / Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MMA Signal Analyzer	7/7/2025	Annual	7/7/2026	MM48010233
Agilent	N9020A	MMA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MM56470202
Mini-Circuits	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	2139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	20DC10-18-3+	Directional Coupler	CBT	N/A	CBT	2020
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	CWWS00	Wideband Radio Communication Tester	CBT	N/A	CBT	126004
Rohde & Schwarz	CWWS00	Wideband Radio Communication Tester	CBT	N/A	CBT	109266
Rohde & Schwarz	CWWS00	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CWWS00	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CWWS00	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAK-3.5	Portable Dielectric Assessment Kit	5/12/2025	Annual	5/12/2026	1123
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1217
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-30300D	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	SG Verification Source 10GHz	10GHz System Verification Antenna	10/9/2024	Annual	10/9/2025	1006
SPEAG	CLA-1.3	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Triennial	11/17/2025	3040
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2023	Biennial	8/8/2025	54180
SPEAG	D2300V2	2300 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	3038
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D10450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2600V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	9/12/2023	Biennial	9/12/2025	1069
SPEAG	D3500V2	3500 MHz SAR Dipole	8/17/2022	Triennial	8/17/2025	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/21/2022	Triennial	10/21/2025	1002
SPEAG	D3900V2	3900 MHz SAR Dipole	11/7/2024	Annual	11/7/2025	1062
SPEAG	D1604V2	1.6 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	DE-5GHzV2	6.5 GHz SAR Dipole	10/10/2024	Annual	10/10/2025	1019
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAG	D835V2	835 MHz SAR Dipole	10/25/2024	Annual	10/25/2025	46040
SPEAG	D835V2	835 MHz SAR Dipole	11/18/2022	Triennial	11/18/2025	44108
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	3584
SPEAG	DAE4	Daisy Data Acquisition Electronics	1/8/2025	Annual	1/8/2026	1465
SPEAG	DAE4	Daisy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1323
SPEAG	DAE4	Daisy Data Acquisition Electronics	3/6/2025	Annual	3/6/2026	604
SPEAG	DAE4	Daisy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1403
SPEAG	DAE4	Daisy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1217
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	793
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1402
SPEAG	DAE4	Daisy Data Acquisition Electronics	5/13/2025	Annual	5/13/2026	1683
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1582
SPEAG	DAE4	Daisy Data Acquisition Electronics	12/14/2024	Annual	12/14/2025	1644
SPEAG	DAE4	Daisy Data Acquisition Electronics	8/8/2024	Annual	8/8/2025	1681
SPEAG	EUMWV3	EUMWV3 Probe	10/9/2024	Annual	10/9/2025	9407
SPEAG	EX30V4	SAR Probe	9/9/2024	Annual	9/9/2025	7639
SPEAG	EX30V4	SAR Probe	1/14/2025	Annual	1/14/2026	7499
SPEAG	EX30V4	SAR Probe	3/6/2025	Annual	3/6/2026	7421
SPEAG	EX30V4	SAR Probe	5/14/2025	Annual	5/14/2026	7682
SPEAG	EX30V4	SAR Probe	4/11/2025	Annual	4/11/2026	7357
SPEAG	EX30V4	SAR Probe	9/9/2024	Annual	9/9/2025	3817
SPEAG	EX30V4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
SPEAG	EX30V4	SAR Probe	3/6/2025	Annual	3/6/2026	7638
SPEAG	EX30V4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX30V4	SAR Probe	9/4/2024	Annual	9/4/2025	7668
SPEAG	EX30V4	SAR Probe	2/10/2025	Annual	2/10/2026	7427
SPEAG	EX30V4	SAR Probe	9/9/2024	Annual	9/9/2025	3949
SPEAG	EX30V4	SAR Probe	12/9/2024	Annual	12/9/2025	7490

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

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14 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

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	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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

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Applicable for SAR measurements > 6 GHz:

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	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

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

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Applicable for Power Density measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

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15 CONCLUSION

15.1 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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