



Element Materials Technology

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RF EXPOSURE REPORT

Applicant Name:

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

Date of Testing:

05/16/2025 – 08/25/2025

Test Report Issue Date:

09/01/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2504170039-02.BCG-R3

FCC ID:

BCGA3358

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Models:

A3358, A3359

Frequency	Band & Mode	Test Frequency	Max SAR
800	800 MHz (GSM)	800 MHz	1.6
850	850 MHz (GSM)	850 MHz	1.6
900	900 MHz (GSM)	900 MHz	1.6
960	960 MHz (GSM)	960 MHz	1.6
1000	1000 MHz (GSM)	1000 MHz	1.6
1050	1050 MHz (GSM)	1050 MHz	1.6
1100	1100 MHz (GSM)	1100 MHz	1.6
1150	1150 MHz (GSM)	1150 MHz	1.6
1200	1200 MHz (GSM)	1200 MHz	1.6
1250	1250 MHz (GSM)	1250 MHz	1.6
1300	1300 MHz (GSM)	1300 MHz	1.6
1350	1350 MHz (GSM)	1350 MHz	1.6
1400	1400 MHz (GSM)	1400 MHz	1.6
1450	1450 MHz (GSM)	1450 MHz	1.6
1500	1500 MHz (GSM)	1500 MHz	1.6
1550	1550 MHz (GSM)	1550 MHz	1.6
1600	1600 MHz (GSM)	1600 MHz	1.6
1650	1650 MHz (GSM)	1650 MHz	1.6
1700	1700 MHz (GSM)	1700 MHz	1.6
1750	1750 MHz (GSM)	1750 MHz	1.6
1800	1800 MHz (GSM)	1800 MHz	1.6
1850	1850 MHz (GSM)	1850 MHz	1.6
1900	1900 MHz (GSM)	1900 MHz	1.6
1950	1950 MHz (GSM)	1950 MHz	1.6
2000	2000 MHz (GSM)	2000 MHz	1.6
2050	2050 MHz (GSM)	2050 MHz	1.6
2100	2100 MHz (GSM)	2100 MHz	1.6
2150	2150 MHz (GSM)	2150 MHz	1.6
2200	2200 MHz (GSM)	2200 MHz	1.6
2250	2250 MHz (GSM)	2250 MHz	1.6
2300	2300 MHz (GSM)	2300 MHz	1.6
2350	2350 MHz (GSM)	2350 MHz	1.6
2400	2400 MHz (GSM)	2400 MHz	1.6
2450	2450 MHz (GSM)	2450 MHz	1.6
2500	2500 MHz (GSM)	2500 MHz	1.6
2550	2550 MHz (GSM)	2550 MHz	1.6
2600	2600 MHz (GSM)	2600 MHz	1.6
2650	2650 MHz (GSM)	2650 MHz	1.6
2700	2700 MHz (GSM)	2700 MHz	1.6
2750	2750 MHz (GSM)	2750 MHz	1.6
2800	2800 MHz (GSM)	2800 MHz	1.6
2850	2850 MHz (GSM)	2850 MHz	1.6
2900	2900 MHz (GSM)	2900 MHz	1.6
2950	2950 MHz (GSM)	2950 MHz	1.6
3000	3000 MHz (GSM)	3000 MHz	1.6
3050	3050 MHz (GSM)	3050 MHz	1.6
3100	3100 MHz (GSM)	3100 MHz	1.6
3150	3150 MHz (GSM)	3150 MHz	1.6
3200	3200 MHz (GSM)	3200 MHz	1.6
3250	3250 MHz (GSM)	3250 MHz	1.6
3300	3300 MHz (GSM)	3300 MHz	1.6
3350	3350 MHz (GSM)	3350 MHz	1.6
3400	3400 MHz (GSM)	3400 MHz	1.6
3450	3450 MHz (GSM)	3450 MHz	1.6
3500	3500 MHz (GSM)	3500 MHz	1.6
3550	3550 MHz (GSM)	3550 MHz	1.6
3600	3600 MHz (GSM)	3600 MHz	1.6
3650	3650 MHz (GSM)	3650 MHz	1.6
3700	3700 MHz (GSM)	3700 MHz	1.6
3750	3750 MHz (GSM)	3750 MHz	1.6
3800	3800 MHz (GSM)	3800 MHz	1.6
3850	3850 MHz (GSM)	3850 MHz	1.6
3900	3900 MHz (GSM)	3900 MHz	1.6
3950	3950 MHz (GSM)	3950 MHz	1.6
4000	4000 MHz (GSM)	4000 MHz	1.6
4050	4050 MHz (GSM)	4050 MHz	1.6
4100	4100 MHz (GSM)	4100 MHz	1.6
4150	4150 MHz (GSM)	4150 MHz	1.6
4200	4200 MHz (GSM)	4200 MHz	1.6
4250	4250 MHz (GSM)	4250 MHz	1.6
4300	4300 MHz (GSM)	4300 MHz	1.6
4350	4350 MHz (GSM)	4350 MHz	1.6
4400	4400 MHz (GSM)	4400 MHz	1.6
4450	4450 MHz (GSM)	4450 MHz	1.6
4500	4500 MHz (GSM)	4500 MHz	1.6
4550	4550 MHz (GSM)	4550 MHz	1.6
4600	4600 MHz (GSM)	4600 MHz	1.6
4650	4650 MHz (GSM)	4650 MHz	1.6
4700	4700 MHz (GSM)	4700 MHz	1.6
4750	4750 MHz (GSM)	4750 MHz	1.6
4800	4800 MHz (GSM)	4800 MHz	1.6
4850	4850 MHz (GSM)	4850 MHz	1.6
4900	4900 MHz (GSM)	4900 MHz	1.6
4950	4950 MHz (GSM)	4950 MHz	1.6
5000	5000 MHz (GSM)	5000 MHz	1.6
5050	5050 MHz (GSM)	5050 MHz	1.6
5100	5100 MHz (GSM)	5100 MHz	1.6
5150	5150 MHz (GSM)	5150 MHz	1.6
5200	5200 MHz (GSM)	5200 MHz	1.6
5250	5250 MHz (GSM)	5250 MHz	1.6
5300	5300 MHz (GSM)	5300 MHz	1.6
5350	5350 MHz (GSM)	5350 MHz	1.6
5400	5400 MHz (GSM)	5400 MHz	1.6
5450	5450 MHz (GSM)	5450 MHz	1.6
5500	5500 MHz (GSM)	5500 MHz	1.6
5550	5550 MHz (GSM)	5550 MHz	1.6
5600	5600 MHz (GSM)	5600 MHz	1.6
5650	5650 MHz (GSM)	5650 MHz	1.6
5700	5700 MHz (GSM)	5700 MHz	1.6
5750	5750 MHz (GSM)	5750 MHz	1.6
5800	5800 MHz (GSM)	5800 MHz	1.6
5850	5850 MHz (GSM)	5850 MHz	1.6
5900	5900 MHz (GSM)	5900 MHz	1.6
5950	5950 MHz (GSM)	5950 MHz	1.6
6000	6000 MHz (GSM)	6000 MHz	1.6
6050	6050 MHz (GSM)	6050 MHz	1.6
6100	6100 MHz (GSM)	6100 MHz	1.6
6150	6150 MHz (GSM)	6150 MHz	1.6
6200	6200 MHz (GSM)	6200 MHz	1.6
6250	6250 MHz (GSM)	6250 MHz	1.6
6300	6300 MHz (GSM)	6300 MHz	1.6
6350	6350 MHz (GSM)	6350 MHz	1.6
6400	6400 MHz (GSM)	6400 MHz	1.6
6450	6450 MHz (GSM)	6450 MHz	1.6
6500	6500 MHz (GSM)	6500 MHz	1.6
6550	6550 MHz (GSM)	6550 MHz	1.6
6600	6600 MHz (GSM)	6600 MHz	1.6
6650	6650 MHz (GSM)	6650 MHz	1.6
6700	6700 MHz (GSM)	6700 MHz	1.6
6750	6750 MHz (GSM)	6750 MHz	1.6
6800	6800 MHz (GSM)	6800 MHz	1.6
6850	6850 MHz (GSM)	6850 MHz	1.6
6900	6900 MHz (GSM)	6900 MHz	1.6
6950	6950 MHz (GSM)	6950 MHz	1.6
7000	7000 MHz (GSM)	7000 MHz	1.6
7050	7050 MHz (GSM)	7050 MHz	1.6
7100	7100 MHz (GSM)	7100 MHz	1.6
7150	7150 MHz (GSM)	7150 MHz	1.6
7200	7200 MHz (GSM)	7200 MHz	1.6
7250	7250 MHz (GSM)	7250 MHz	1.6
7300	7300 MHz (GSM)	7300 MHz	1.6
7350	7350 MHz (GSM)	7350 MHz	1.6
7400	7400 MHz (GSM)	7400 MHz	1.6
7450	7450 MHz (GSM)	7450 MHz	1.6
7500	7500 MHz (GSM)	7500 MHz	1.6
7550	7550 MHz (GSM)	7550 MHz	1.6
7600	7600 MHz (GSM)	7600 MHz	1.6
7650	7650 MHz (GSM)	7650 MHz	1.6
7700	7700 MHz (GSM)	7700 MHz	1.6
7750	7750 MHz (GSM)	7750 MHz	1.6
7800	7800 MHz (GSM)	7800 MHz	1.6
7850	7850 MHz (GSM)	7850 MHz	1.6
7900	7900 MHz (GSM)	7900 MHz	1.6
7950	7950 MHz (GSM)	7950 MHz	1.6
8000	8000 MHz (GSM)	8000 MHz	1.6
8050	8050 MHz (GSM)	8050 MHz	1.6
8100	8100 MHz (GSM)	8100 MHz	1.6
8150	8150 MHz (GSM)	8150 MHz	1.6
8200	8200 MHz (GSM)	8200 MHz	1.6
8250	8250 MHz (GSM)	8250 MHz	1.6
8300	8300 MHz (GSM)	8300 MHz	1.6
8350	8350 MHz (GSM)	8350 MHz	1.6
8400	8400 MHz (GSM)	8400 MHz	1.6
8450	8450 MHz (GSM)	8450 MHz	1.6
8500	8500 MHz (GSM)	8500 MHz	1.6
8550	8550 MHz (GSM)	8550 MHz	1.6
8600	8600 MHz (GSM)	8600 MHz	1.6
8650	8650 MHz (GSM)	8650 MHz	1.6
8700	8700 MHz (GSM)	8700 MHz	1.6
8750	8750 MHz (GSM)	8750 MHz	1.6
8800	8800 MHz (GSM)	8800 MHz	1.6
8850	8850 MHz (GSM)	8850 MHz	1.6
8900	8900 MHz (GSM)	8900 MHz	1.6
8950	8950 MHz (GSM)	8950 MHz	1.6
9000	9000 MHz (GSM)	9000 MHz	1.6
9050	9050 MHz (GSM)	9050 MHz	1.6
9100	9100 MHz (GSM)	9100 MHz	1.6
9150	9150 MHz (GSM)	9150 MHz	1.6
9200	9200 MHz (GSM)	9200 MHz	1.6
9250	9250 MHz (GSM)	9250 MHz	1.6
9300	9300 MHz (GSM)	9300 MHz	1.6
9350	9350 MHz (GSM)	9350 MHz	1.6
9400	9400 MHz (GSM)	9400 MHz	1.6
9450	9450 MHz (GSM)	9450 MHz	1.6
9500	9500 MHz (GSM)	9500 MHz	1.6
9550	9550 MHz (GSM)	9550 MHz	1.6
9600	9600 MHz (GSM)	9600 MHz	1.6
9650	9650 MHz (GSM)	9650 MHz	1.6
9700	9700 MHz (GSM)	9700 MHz	1.6
9750	9750 MHz (GSM)	9750 MHz	1.6
9800	9800 MHz (GSM)	9800 MHz	1.6
9850	9850 MHz (GSM)	9850 MHz	1.6
9900	9900 MHz (GSM)	9900 MHz	1.6
9950	9950 MHz (GSM)	9950 MHz	1.6
10000	10000 MHz (GSM)	10000 MHz	1.6

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez

Executive Vice President



CERT #2041.02

The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfi.info.

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Device Under Test

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1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 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 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band 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 n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2505.0 - 2685.0 MHz
NR Band n48	Data	3550 - 3700 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77	Data	3710.01 - 3969.99 MHz
2.4 GHz WIFI	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
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB U-NII 1	Data	5162 - 5245 MHz
NB U-NII 3	Data	5733 - 5844 MHz
NB U-NII 5	Data	6105 - 6420 MHz
WPT	N/A	13.56 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

1.2.1 System Description of TAS

This device uses a time-averaged SAR (TAS) technology for the connectivity transmitters (i.e., WLAN, BT, 802.15.4, NB UNII). A central manager, referred to as the RF Exposure Manager, is responsible for maintaining the rolling time-averaged RF exposure over the applicable regulatory compliance window. This manager allocates a total RF exposure budget and specifies the RF exposure compliance limit to the connectivity radios. The radio controllers manage their transmissions to always maintain their consumption below the regulatory RF exposure. They report their consumed RF exposure back to the RF Exposure Manager. The RF Exposure Manager uses this feedback to allocate updated budget information throughout the regulatory averaging window.

Additionally, this device time-averaged SAR (TAS) technology for cellular technologies. A centralized entity receives applicable reported time-averaged SAR and/or MPE values from each radio and processes this data to distribute dynamic budget allocations back to each radio. This method enables cross-technology budget sharing and power optimization while maintaining the overall RF exposure compliance.

For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the Connectivity Time-Averaged SAR Validation Report and Cellular Time Averaged SAR Validation Report.

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1.2.2

RF Exposure Target and Power Limit Declaration

For this device, the connectivity radios have an RF Exposure Target (RFE Target) that is defined as 1.20 W/kg (1 g SAR), which is below the FCC regulatory limit of 1.6 W/kg and includes margin for device and measurement uncertainty. For cellular radios, the time-averaging SAR technology maintains the time-averaged transmit power, in turn, time-averaged RF exposure of the SAR design limit below the pre-defined time-averaged power limit (Plimit) for each characterized technology and band. The SAR design limit for all cellular radios is defined as 1.20 W/kg (1g SAR), which is below the FCC regulatory limit of 1.6 W/kg and includes margin for device and measurement uncertainty.

Based on RF exposure characterization, the maximum time-averaged transmit power limits (Plimit) for all supported radios have been determined and compared against the respective tune-up maximum powers (Pmax). In cases where Plimit is equal to or higher than Pmax, compliance is demonstrated by SAR measurements at Pmax, confirming that all results remain below the limit.

For configurations where Plimit is lower than Pmax, compliance is ensured by maintaining the rolling average transmit power (Pavg) within Plimit. In these cases, static SAR testing at Plimit is documented in this report, and dynamic compliance validation relative to Plimit is provided in the separate Connectivity TAS Validation Report and Cellular TAS Validation Report. Those report includes the conducted power traces and normalized average power (Pavg,norm) results, demonstrating that the time-averaged transmit power remains within the required limit, as specified in the manufacturer's guidance.

This RF Exposure report establishes the RFE Target and declares the Plimit and Pmax for each supported configuration of the connectivity radios.

Dynamic validation evidence when Plimit is lower than Pmax is provided separately in the Connectivity TAS Validation Report. For cellular radios, the tables below defines the following parameters (SAR target, SAR design limit, Plimit (inclusive of total device uncertainty), and Pmax (max allowed power). Dynamic validation for the cellular time-averaging SAR algorithm is provided separately in the Cellular TAS Validation Report.

The dynamic budget sharing algorithm also enables separate budget caps for the standalone and simultaneous use conditions when cellular and connectivity radios are operational concurrently. When the cellular budget is 1.0 W/kg, the connectivity budget is 0.6 W/kg. However, when the cellular budget is 1.2 W/kg, the connectivity budget is 0.4 W/kg. Conducted power measurements and SAR measurements will not be performed when the simultaneous budget for cellular radios is 1.0 W/kg. Instead, the reported SAR from the cellular standalone assessment will be scaled down. For connectivity radios, SAR measurements will be additionally evaluated for the budget cap of 0.6 W/kg, and the reported SAR will be scaled down for the budget cap of 0.4 W/kg. Both cellular and connectivity radio budgets were evaluated for simultaneous scenarios compliance.

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1.2.3

SAR_design_target Calculations

Table 2-1
Antenna 1

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.04	1.2 W/kg	1.6 W/kg
UMTS 1750	0.97		
UMTS 1900	1.02		
LTE Band 71	0.93		
LTE Band 12	0.97		
LTE Band 17	0.97		
LTE Band 13	1.02		
LTE Band 14	1.02		
LTE Band 26	1.04		
LTE Band 5	1.04		
LTE Band 5 ULCA	1.04		
LTE Band 4	0.97		
LTE Band 66	0.97		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	1.02		
LTE Band 7	0.88		
LTE Band 7 ULCA	0.88		
LTE Band 48	0.95		
LTE Band 48 ULCA	0.95		
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	0.88		
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	0.88		
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	0.88		
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	0.88		
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	0.84		
LTE Band 41 (PC3) ULCA- [Ch. 41055 - 41490]	0.84		
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	0.84		
LTE Band 41 (PC2) ULCA- [Ch. 41055 - 41490]	0.84		
NR Band n71	0.93		
NR Band n12	0.97		
NR Band n14	1.02		
NR Band n26	1.04		
NR Band n5	1.02		
NR Band n70	0.95		
NR Band n66	0.95		
NR Band n2	0.99		
NR Band n25	0.99		
NR Band n30	1.02		
NR Band n7	0.86		
NR Band n48	0.86		
NR Band n41 (PC3) - [Ch. 518598]	0.81		
NR Band n41 (PC2) - [Ch. 518598]	0.81		
NR Band n41 (PC3) - [Ch. 528000]	0.81		
NR Band n41 (PC2) - [Ch. 528000]	0.81		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.93		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.93		
NR Band n77 (PC3) - [Ch. 650000]	0.81		
NR Band n77 (PC2) - [Ch. 650000]	0.81		
NR Band n77 (PC3) - [Ch. 662000]	0.88		
NR Band n77 (PC2) - [Ch. 662000]	0.88		

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**Table 2-2
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	0.99		
LTE Band 4	0.99		
LTE Band 66	0.99		
LTE Band 2	0.99		
LTE Band 25	0.99		
LTE Band 30	1.02		
LTE Band 7	0.99		
LTE Band 7 ULCA	0.99		
LTE Band 48	1.04		
LTE Band 48 ULCA	1.04		
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]	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		
NR Band n70	0.97		
NR Band n66	0.97		
NR Band n2	0.97		
NR Band n25	0.97		
NR Band n30	1.04		
NR Band n7	0.99		
NR Band n48	0.86		
NR Band n41 (PC3) - [Ch. 518598]	0.86		
NR Band n41 (PC2) - [Ch. 518598]	0.86		
NR Band n41 (PC3) - [Ch. 528000]	0.83		
NR Band n41 (PC2) - [Ch. 528000]	0.83		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.99		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.99		
NR Band n77 (PC3) - [Ch. 650000]	0.91		
NR Band n77 (PC2) - [Ch. 650000]	0.91		
NR Band n77 (PC3) - [Ch. 662000]	0.84		
NR Band n77 (PC2) - [Ch. 662000]	0.84		

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**Table 2-3
Antenna 3**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.02	1.2 W/kg	1.6 W/kg
UMTS 1750	1.02		
UMTS 1900	0.99		
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	0.99		
LTE Band 5	1.02		
LTE Band 5 ULCA	1.02		
LTE Band 4	1.02		
LTE Band 66	1.02		
LTE Band 2	0.99		
LTE Band 25	0.99		
LTE Band 30	0.97		
LTE Band 7	0.91		
LTE Band 7 ULCA	0.91		
LTE Band 48	0.93		
LTE Band 48 ULCA	0.93		
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]	0.88		
LTE Band 41 (PC3) ULCA - [Ch. 41055 - 41490]	0.88		
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	0.88		
LTE Band 41 (PC2) ULCA - [Ch. 41055 - 41490]	0.88		
NR Band n71	0.99		
NR Band n12	0.99		
NR Band n14	0.99		
NR Band n26	0.99		
NR Band n5	0.99		
NR Band n70	0.97		
NR Band n66	0.99		
NR Band n2	1.02		
NR Band n25	1.02		
NR Band n30	0.97		
NR Band n7	0.86		
NR Band n48	0.84		
NR Band n41 (PC3) - [Ch. 518598]	0.88		
NR Band n41 (PC2) - [Ch. 518598]	0.88		
NR Band n41 (PC3) - [Ch. 528000]	0.83		
NR Band n41 (PC2) - [Ch. 528000]	0.83		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.93		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.93		
NR Band n77 (PC3) - [Ch. 650000]	0.91		
NR Band n77 (PC2) - [Ch. 650000]	0.91		
NR Band n77 (PC3) - [Ch. 662000]	0.91		
NR Band n77 (PC2) - [Ch. 662000]	0.91		

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**Table 2-4
Antenna 4b**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	0.97	1.2 W/kg	1.6 W/kg
UMTS 1900	0.99		
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	1.02		
LTE Band 7 ULCA	1.02		
LTE Band 48	0.93		
LTE Band 48 ULCA	0.93		
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	1.04		
LTE Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	1.04		
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	1.04		
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	1.04		
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		
NR Band n70	0.97		
NR Band n66	0.97		
NR Band n2	0.99		
NR Band n25	0.99		
NR Band n30	1.04		
NR Band n7	0.99		
NR Band n48	0.81		
NR Band n41 (PC3) - [Ch. 518598]	0.84		
NR Band n41 (PC2) - [Ch. 518598]	0.84		
NR Band n41 (PC3) - [Ch. 528000]	0.86		
NR Band n41 (PC2) - [Ch. 528000]	0.86		
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]	0.84		
NR Band n77 (PC2) - [Ch. 662000]	0.84		

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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	23.90	24.70	N/A	N/A	24.20	25.70	N/A	N/A
UMTS 1750	19.60	25.70	20.50	25.70	18.00	25.70	18.60	25.70
UMTS 1900	18.80	24.20	19.30	24.20	17.50	25.20	19.30	25.30
LTE Band 71	24.70	24.70	N/A	N/A	24.50	25.70	N/A	N/A
LTE Band 12	24.70	24.70	N/A	N/A	25.00	25.70	N/A	N/A
LTE Band 17	24.70	24.70	N/A	N/A	25.00	25.70	N/A	N/A
LTE Band 13	24.30	24.70	N/A	N/A	23.50	25.70	N/A	N/A
LTE Band 14	24.30	24.70	N/A	N/A	23.50	25.70	N/A	N/A
LTE Band 26	23.90	24.70	N/A	N/A	24.20	25.70	N/A	N/A
LTE Band 5	23.90	24.70	N/A	N/A	24.20	25.70	N/A	N/A
LTE Band 5 ULCA	23.90	24.70	N/A	N/A	24.20	25.70	N/A	N/A
LTE Band 4	19.60	25.70	20.50	25.70	18.00	25.70	18.60	25.70
LTE Band 66	19.60	25.70	20.50	25.70	18.00	25.70	18.60	25.70
LTE Band 2	18.80	24.20	19.80	24.20	17.50	25.20	19.30	25.30
LTE Band 25	18.80	24.20	19.80	24.20	17.50	25.20	19.30	25.30
LTE Band 30	19.50	24.20	20.50	24.20	17.20	22.10	18.80	23.40
LTE Band 7	18.20	24.20	20.10	24.20	17.90	25.20	18.90	25.30
LTE Band 7 ULCA	18.20	24.20	20.10	24.20	17.90	25.20	18.90	25.30
LTE Band 41 (PC3) - [Ch. 39750 - 40620]	17.7	23.7	20.1	23.7	17.2	23.7	19.3	23.7
LTE Band 41 (PC2) - [Ch. 39750 - 40620]	17.7	25.1	20.1	25.1	17.2	24.6	19.3	24.1
LTE Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	17.7	24.6	20.1	24.6	17.2	24.6	19.3	24.1
LTE Band 41 (PC3) - [Ch. 41055 - 41490]	19.9	23.7	20.1	23.7	19.9	23.7	19.3	23.7
LTE Band 41 (PC3) ULCA - [Ch. 41055 - 41490]	19.9	23.7	20.1	23.7	19.9	23.7	19.3	23.7
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	19.9	25.1	20.1	25.1	19.9	24.6	19.3	24.1
LTE Band 41 (PC2) ULCA - [Ch. 41055 - 41490]	19.9	24.6	20.1	24.6	19.9	24.6	19.3	24.1
LTE Band 48	16.6	19.8	21.0	21.3	16.4	18.3	16.1	19.1
LTE Band 48 ULCA	16.6	19.8	21.0	21.3	16.4	18.3	16.1	19.1
NR Band n71	24.70	24.70	N/A	N/A	24.50	25.70	N/A	N/A
NR Band n12	24.70	24.70	N/A	N/A	25.00	25.70	N/A	N/A
NR Band n14	24.30	24.70	N/A	N/A	23.50	25.70	N/A	N/A
NR Band n26	23.90	24.70	N/A	N/A	24.20	25.70	N/A	N/A
NR Band n5	23.90	24.70	N/A	N/A	24.20	25.70	N/A	N/A
NR Band n70	19.60	25.70	20.50	25.70	18.00	25.20	18.60	25.30
NR Band n66	19.60	25.70	20.50	25.70	18.00	25.70	18.60	25.70
NR Band n2	18.80	24.20	19.30	24.20	17.50	25.20	19.30	25.30
NR Band n25	18.80	24.20	19.30	24.20	17.50	25.20	19.30	25.30
NR Band n30	19.50	24.20	20.50	24.20	17.20	22.10	18.80	23.40
NR Band n7	18.20	24.20	20.10	24.20	17.90	25.20	18.90	25.30
NR Band n41 (PC3) - [Ch. 518598]	17.70	28.70	20.10	28.70	17.20	28.20	19.30	27.70
NR Band n41 (PC2) - [Ch. 518598]	17.70	28.70	20.10	28.70	17.20	28.20	19.30	27.70
NR Band n41 (PC3) - [Ch. 528000]	19.90	28.70	20.10	28.70	19.90	28.20	19.30	27.70
NR Band n41 (PC2) - [Ch. 528000]	19.90	28.70	20.10	28.70	19.90	28.20	19.30	27.70
NR Band n48	16.60	21.80	21.00	23.30	16.40	20.30	16.10	21.10
NR Band n77 DoD (PC3) - [Ch. 633334]	17.40	25.00	20.30	25.00	18.30	25.70	16.60	25.70
NR Band n77 DoD (PC2) - [Ch. 633334]	17.40	25.50	20.30	25.50	18.30	27.50	16.60	27.00
NR Band n77 (PC3) - [Ch. 650000]	20.70	25.00	22.90	25.00	19.40	25.70	18.20	25.70
NR Band n77 (PC2) - [Ch. 650000]	20.70	25.50	22.90	25.50	19.40	27.50	18.20	27.00
NR Band n77 (PC3) - [Ch. 662000]	21.00	25.00	22.00	25.00	19.80	25.70	19.20	25.70
NR Band n77 (PC2) - [Ch. 662000]	21.00	25.50	22.00	25.50	19.80	27.50	19.20	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 2-5
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	23.90		24.20	
	Nominal	Rel 99	23.30		23.50	
	Max allowed power	3GPP HSDPA	23.90		24.20	
	Nominal	Rel 5	23.30		23.50	
	Max allowed power	3GPP HSUPA	23.90		24.20	
	Nominal	Rel 6	23.30		23.50	
	Max allowed power	3GPP DC-	23.90		24.20	
	Nominal	HSDPA Rel 8	23.30		23.50	

Table 2-6
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	19.60	20.50	18.00	18.60
	Nominal	Rel 99	18.70	19.70	17.30	17.70
	Max allowed power	3GPP HSDPA	19.60	20.50	18.00	18.60
	Nominal	Rel 5	18.70	19.70	17.30	17.70
	Max allowed power	3GPP HSUPA	19.60	20.50	18.00	18.60
	Nominal	Rel 6	18.70	19.70	17.30	17.70
	Max allowed power	3GPP DC-	19.60	20.50	18.00	18.60
	Nominal	HSDPA Rel 8	18.70	19.70	17.30	17.70

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Table 2-7
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	19.30	17.50	19.30
	Nominal	Rel 99	18.10	18.50	16.70	18.50
	Max allowed power	3GPP HSDPA	18.80	19.30	17.50	19.30
	Nominal	Rel 5	18.10	18.50	16.70	18.50
	Max allowed power	3GPP HSUPA	18.80	19.30	17.50	19.30
	Nominal	Rel 6	18.10	18.50	16.70	18.50
	Max allowed power	3GPP DC-	18.80	19.30	17.50	19.30
	Nominal	HSDPA Rel 8	18.10	18.50	16.70	18.50

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**LTE Bands
Table 2-8**

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
LTE FDD Band 71	Max allowed power	24.70		24.50	
	Nominal	23.60		23.70	
LTE FDD Band 12	Max allowed power	24.70		25.00	
	Nominal	23.80		24.20	
LTE FDD Band 17	Max allowed power	24.70		25.00	
	Nominal	23.80		24.20	
LTE FDD Band 13	Max allowed power	24.30		23.50	
	Nominal	23.60		22.80	
LTE FDD Band 14	Max allowed power	24.30		23.50	
	Nominal	23.60		22.70	
LTE FDD Band 26	Max allowed power	23.90		24.20	
	Nominal	23.30		23.40	
LTE FDD Band 5	Max allowed power	23.90		24.20	
	Nominal	23.30		23.50	
LTE FDD Band 5 Intra-band ULCA	Max allowed power	23.90		24.20	
	Nominal	23.30		23.50	
LTE FDD Band 4	Max allowed power	19.60	20.50	18.00	18.60
	Nominal	18.70	19.70	17.30	17.70
LTE FDD Band 66	Max allowed power	19.60	20.50	18.00	18.60
	Nominal	18.70	19.70	17.30	17.70
LTE FDD Band 2	Max allowed power	18.80	19.80	17.50	19.30
	Nominal	18.10	19.00	16.70	18.60
LTE FDD Band 25	Max allowed power	18.80	19.80	17.50	19.30
	Nominal	18.10	19.00	16.70	18.60
LTE FDD Band 30	Max allowed power	19.50	20.50	17.20	18.80
	Nominal	18.80	19.80	16.30	18.20
LTE FDD Band 7	Max allowed power	18.20	20.10	17.90	18.90
	Nominal	16.90	19.30	16.70	18.20
LTE FDD Band 7 Intra-band ULCA	Max allowed power	18.20	20.10	17.90	18.90
	Nominal	16.90	19.30	16.70	18.20
LTE TDD Band 41 (PC3) - [Ch. 39750 - 40620]	Max allowed power	19.70	22.10	19.20	21.30
	Nominal	18.40	21.30	18.10	20.70
LTE TDD Band 41 (PC3) ULCA - [Ch. 39750 - 40620]	Max allowed power	19.70	22.10	19.20	21.30
	Nominal	18.40	21.30	18.10	20.70
LTE TDD Band 41 (PC2) - [Ch. 39750 - 40620]	Max allowed power	21.30	23.70	20.80	22.90
	Nominal	20.00	22.90	19.70	22.30
LTE TDD Band 41 (PC2) ULCA - [Ch. 39750 - 40620]	Max allowed power	21.30	23.70	20.80	22.90
	Nominal	20.00	22.90	19.70	22.30
LTE TDD Band 41 (PC3) - [Ch. 41055 - 41490]	Max allowed power	21.90	22.10	21.90	21.30
	Nominal	20.40	21.40	20.60	20.60
LTE Band 41 (PC3) ULCA- [Ch. 41055 - 41490]	Max allowed power	21.90	22.10	21.90	21.30
	Nominal	20.40	21.40	20.60	20.60
LTE Band 41 (PC2) - [Ch. 41055 - 41490]	Max allowed power	23.50	23.70	23.50	22.90
	Nominal	22.00	23.00	22.20	22.20
LTE Band 41 (PC2) ULCA- [Ch. 41055 - 41490]	Max allowed power	23.50	23.70	23.50	22.90
	Nominal	22.00	23.00	22.20	22.20
LTE TDD Band 48	Max allowed power	18.60	23.00	18.40	18.10
	Nominal	17.60	22.40	17.30	17.00
LTE TDD Band 48 Intra-band ULCA	Max allowed power	18.60	23.00	18.40	18.10
	Nominal	17.60	22.40	17.30	17.00

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Table 2-9
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	24.70		24.50	
	Nominal	23.60		23.70	
NR FDD Band n12	Max allowed power	24.70		25.00	
	Nominal	23.80		24.20	
NR FDD Band n14	Max allowed power	24.30		23.50	
	Nominal	23.60		22.70	
NR FDD Band n26	Max allowed power	23.90		24.20	
	Nominal	23.30		23.40	
NR FDD Band n5	Max allowed power	23.90		24.20	
	Nominal	23.20		23.40	
NR FDD Band n70	Max allowed power	19.60	20.50	18.00	18.60
	Nominal	18.60	19.60	17.10	17.70
NR FDD Band n66	Max allowed power	19.60	20.50	18.00	18.60
	Nominal	18.60	19.60	17.20	17.70
NR FDD Band n2	Max allowed power	18.80	19.30	17.50	19.30
	Nominal	18.00	18.40	16.80	18.50
NR FDD Band n25	Max allowed power	18.80	19.30	17.50	19.30
	Nominal	18.00	18.40	16.80	18.50
NR FDD Band n30	Max allowed power	19.50	20.50	17.20	18.80
	Nominal	18.80	19.90	16.30	18.20
NR FDD Band n7	Max allowed power	18.20	20.10	17.90	18.90
	Nominal	16.80	19.30	16.50	18.10
NR Band n41 (PC3) - [Ch. 518598]	Max allowed power	17.70	20.10	17.20	19.30
	Nominal	16.00	18.70	15.90	17.80
NR Band n41 (PC2) - [Ch. 518598]	Max allowed power	17.70	20.10	17.20	19.30
	Nominal	16.00	18.70	15.90	17.80
NR Band n41 (PC3) - [Ch. 528000]	Max allowed power	19.90	20.10	19.90	19.30
	Nominal	18.20	18.50	18.30	17.90
NR Band n41 (PC2) - [Ch. 528000]	Max allowed power	19.90	20.10	19.90	19.30
	Nominal	18.20	18.50	18.30	17.90
NR TDD Band n48	Max allowed power	16.60	21.00	16.40	16.10
	Nominal	15.20	19.60	14.90	14.40
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	Max allowed power	17.40	20.30	18.30	16.60
	Nominal	16.30	19.50	17.20	15.20
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	Max allowed power	17.40	20.30	18.30	16.60
	Nominal	16.30	19.50	17.20	15.20
NR TDD Band n77 (PC3) - [Ch. 650000]	Max allowed power	20.70	22.90	19.40	18.20
	Nominal	19.00	21.70	18.20	17.00
NR TDD Band n77 (PC2) - [Ch. 650000]	Max allowed power	20.70	22.90	19.40	18.20
	Nominal	19.00	21.70	18.20	17.00
NR TDD Band n77 (PC3) - [Ch. 662000]	Max allowed power	21.00	22.00	19.80	19.20
	Nominal	19.70	20.50	18.60	17.70
NR TDD Band n77 (PC2) - [Ch. 662000]	Max allowed power	21.00	22.00	19.80	19.20
	Nominal	19.70	20.50	18.60	17.70

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1.3.2

Maximum WLAN Time-Averaged Output Power

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

Note: Targets for 802.11ax/be RU & MRU operations can be found in RU 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	20.50	19.00	15.50	14.00	15.50	14.00	15.00	13.50
	2	20.50	19.00	19.00	17.50	19.00	17.50	18.00	16.50
	3	20.50	19.00	20.00	18.50	20.00	18.50	19.50	18.00
	4	20.50	19.00	20.50	19.00	20.50	19.00	20.50	19.00
	5	20.50	19.00	20.50	19.00	20.50	19.00	20.50	19.00
	6	20.50	19.00	20.50	19.00	20.50	19.00	20.50	19.00
	7	20.50	19.00	20.50	19.00	20.50	19.00	20.50	19.00
	8	20.50	19.00	20.50	19.00	20.50	19.00	20.00	18.50
	9	20.50	19.00	19.80	18.30	19.80	18.30	19.00	17.50
	10	20.50	19.00	18.80	17.30	18.80	17.30	17.00	15.50
	11	20.50	19.00	16.50	15.00	16.50	15.00	15.50	14.00
	12	17.00	15.50	13.30	11.80	13.30	11.80	12.50	11.00
	13	15.50	14.00	7.30	5.80	7.30	5.80	5.00	3.50
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	14.30	13.30	14.30	13.30	14.30	13.30	14.30	13.30
	2	18.00	17.00	17.50	16.50	18.00	17.00	17.50	16.50
	3	19.50	18.50	19.00	18.00	19.50	18.50	19.00	18.00
	4	20.50	19.50	20.00	19.00	20.50	19.50	20.00	19.00
	5	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50
	6	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50
	7	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50
	8	19.80	18.80	19.80	18.80	19.80	18.80	19.80	18.80
	9	19.30	18.30	18.80	17.80	19.30	18.30	18.80	17.80
	10	18.80	17.80	17.00	16.00	18.80	17.80	17.00	16.00
	11	16.50	15.50	15.30	14.30	16.50	15.50	15.30	14.30
	12	13.00	12.00	12.50	11.50	13.00	12.00	12.50	11.50
	13	5.80	4.80	2.80	1.80	5.80	4.80	2.80	1.80

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	19.75	18.75	15.30	14.30	15.30	14.30	14.50	13.50
	2	19.75	18.75	18.50	17.50	18.50	17.50	18.00	17.00
	3	19.75	18.75	19.75	18.75	19.75	18.75	19.50	18.50
	4	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	5	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	6	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	7	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	8	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	9	19.75	18.75	19.30	18.30	19.30	18.30	18.80	17.80
	10	19.75	18.75	18.50	17.50	18.50	17.50	17.80	16.80
	11	19.75	18.75	16.50	15.50	16.50	15.50	15.00	14.00
	12	17.00	16.00	13.80	12.80	13.80	12.80	13.50	12.50
	13	15.50	14.50	7.30	6.30	7.30	6.30	3.00	2.00
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	14.30	13.30	14.30	13.30	14.30	13.30	14.30	13.30
	2	18.00	17.00	17.50	16.50	18.00	17.00	17.50	16.50
	3	19.50	18.50	19.00	18.00	19.50	18.50	19.00	18.00
	4	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	5	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	6	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	7	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	8	19.75	18.75	19.75	18.75	19.75	18.75	19.75	18.75
	9	19.30	18.30	18.80	17.80	19.30	18.30	18.80	17.80
	10	18.80	17.80	17.00	16.00	18.80	17.80	17.00	16.00
	11	16.50	15.50	15.30	14.30	16.50	15.50	15.30	14.30
	12	13.00	12.00	12.50	11.50	13.00	12.00	12.50	11.50
	13	5.80	4.80	2.80	1.80	5.80	4.80	2.80	1.80

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Node	Channel	IEEE 802.11 (Maximum in dBm) - Antenna Width															
		SSID		SSID		SSID		SSID		SSID		SSID		SSID		SSID	
		a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	a (Maximum)	
5 GHz WIFI 20 MHz Bandwidth	30	17.80	16.80	17.80	16.80	17.80	16.80	17.80	16.80	17.80	16.80	17.80	16.80	17.80	16.80	17.80	
	40	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	50	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	60	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	70	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	80	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	90	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	100	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	110	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	120	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	130	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	140	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	150	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	160	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	170	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	180	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	190	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	200	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	5 GHz WIFI 40 MHz Bandwidth	30	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10
		40	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10
50		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
60		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
70		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
80		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
90		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
100		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
110		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
120		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
130		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
140		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
150		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
160		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
170		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
180		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
190		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
200		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
5 GHz WIFI 80 MHz Bandwidth		30	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10
		40	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10
	50	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	60	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	70	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	80	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	90	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	100	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	110	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	120	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	130	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	140	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	150	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	160	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	170	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	180	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	190	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	200	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
	5 GHz WIFI 160 MHz Bandwidth	30	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10
		40	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10
50		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
60		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
70		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
80		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
90		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
100		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
110		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
120		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
130		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
140		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
150		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
160		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
170		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
180		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
190		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	
200		18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	17.10	18.10	

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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	6.90	5.90	6.90	5.90	0.80	-0.20	3.80	2.80
	5	7.90	6.90	8.00	7.00	1.80	0.80	4.80	3.80
	9-29	7.80	6.80	7.80	6.80	1.70	0.70	4.70	3.70
	33-61	7.20	6.20	7.30	6.30	1.70	0.70	4.70	3.70
	65-85	7.90	6.90	8.00	7.00	2.30	1.30	5.30	4.30
	89	8.00	7.00	8.20	7.20	2.50	1.50	5.50	4.50
	93	8.00	7.00	8.00	7.00	2.40	1.40	5.40	4.40
	97-113	7.40	6.40	7.60	6.60	1.90	0.90	4.90	3.90
	117-181	6.50	5.50	6.50	5.50	0.50	-0.50	3.50	2.50
	185	5.80	4.80	5.90	4.90	0.50	-0.50	3.50	2.50
	189-225	5.40	4.40	5.70	4.70	1.40	0.40	4.20	3.20
	229	5.70	4.70	5.90	4.90	1.60	0.60	4.40	3.40
	233	4.00	3.00	5.10	4.10	0.60	-0.40	3.40	2.40
6 GHz WiFi (40MHz BW) LP	3			10.10	9.10	3.90	2.90	6.90	5.90
	11			10.70	9.70	4.60	3.60	7.60	6.60
	19-27			10.90	9.90	4.70	3.70	7.70	6.70
	35-59			10.20	9.20	4.60	3.60	7.60	6.60
	67-75			10.90	9.90	5.30	4.30	8.30	7.30
	83			10.80	9.80	5.20	4.20	8.20	7.20
	91			11.10	10.10	5.40	4.40	8.40	7.40
	99-107			10.60	9.60	4.80	3.80	7.80	6.80
	115			9.60	8.60	3.70	2.70	6.70	5.70
	123-179			9.60	8.60	3.70	2.70	6.70	5.70
	187			8.70	7.70	3.30	2.30	6.30	5.30
	195-219			8.70	7.70	4.40	3.40	7.20	6.20
	227			8.70	7.70	4.40	3.40	7.20	6.20
	7			12.90	11.90	6.80	5.80	9.80	8.80
	23			13.70	12.70	7.60	6.60	10.60	9.60
6 GHz WiFi (80MHz BW) LP	39-55			13.30	12.30	7.70	6.70	10.70	9.70
	71			13.25	12.25	8.20	7.20	11.20	10.20
	87			13.25	12.25	8.30	7.30	11.30	10.30
	103			13.60	12.60	7.90	6.90	10.90	9.90
	119			12.50	11.50	6.60	5.60	9.60	8.60
	135-167			12.70	11.70	6.60	5.60	9.60	8.60
	183			11.70	10.70	6.20	5.20	9.20	8.20
	199			11.60	10.60	7.30	6.30	10.10	9.10
	215			11.80	10.80	7.30	6.30	10.10	9.10
	15			15.70	14.70	9.60	8.60	12.60	11.60
6 GHz WiFi (160MHz BW) LP	47			15.75	14.75	10.30	9.30	13.25	12.25
	79			13.25	12.25	11.20	10.20	13.25	12.25
	111			14.00	13.00	9.40	8.40	12.40	11.40
	143			13.75	12.75	9.40	8.40	12.40	11.40
	175			13.75	12.75	8.90	7.90	11.90	10.90
	207			14.50	13.50	10.20	9.20	13.00	12.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a							
		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	3.20	2.20	3.30	2.30	-2.30	-3.30	0.70	-0.30
	65-85	3.90	2.90	4.00	3.00	-1.70	-2.70	1.30	0.30
	89	4.00	3.00	4.20	3.20	-1.50	-2.50	1.50	0.50
	93	4.00	3.00	4.00	3.00	-1.60	-2.60	1.40	0.40
	97-113	3.40	2.40	3.60	2.60	-2.10	-3.10	0.90	-0.10
	117-181	2.50	1.50	2.50	1.50	-3.50	-4.50	-0.50	-1.50
	185	1.80	0.80	1.90	0.90	-3.50	-4.50	-0.50	-1.50
	189-225	1.40	0.40	1.70	0.70	-2.60	-3.60	0.20	-0.80
	229	1.70	0.70	1.90	0.90	-2.40	-3.40	0.40	-0.60
	233	1.00	0.00	1.10	0.10	-3.40	-4.40	-0.60	-1.60
	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			6.20	5.20	0.60	-0.40	3.60	2.60
	67-75			6.90	5.90	1.30	0.30	4.30	3.30
	83			6.80	5.80	1.20	0.20	4.20	3.20
	91			7.10	6.10	1.40	0.40	4.40	3.40
	99-107			6.60	5.60	0.80	-0.20	3.80	2.80
	115			5.60	4.60	-0.30	-1.30	2.70	1.70
	123-179			5.60	4.60	-0.30	-1.30	2.70	1.70
	187			4.70	3.70	-0.70	-1.70	2.30	1.30
	195-219			4.70	3.70	0.40	-0.60	3.20	2.20
	227			4.70	3.70	0.40	-0.60	3.20	2.20
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			9.30	8.30	3.70	2.70	6.70	5.70
6 GHz WiFi (80MHz BW) VLP	71			9.80	8.80	4.20	3.20	7.20	6.20
	87			9.90	8.90	4.30	3.30	7.30	6.30
	103			9.60	8.60	3.90	2.90	6.90	5.90
	119			8.50	7.50	2.60	1.60	5.60	4.60
	135-167			8.70	7.70	2.60	1.60	5.60	4.60
	183			7.70	6.70	2.20	1.20	5.20	4.20
	199			7.60	6.60	3.30	2.30	6.10	5.10
	215			7.80	6.80	3.30	2.30	6.10	5.10
	15			NS	NS	NS	NS	NS	NS
	47			11.10	10.10	6.30	5.30	8.50	7.50
6 GHz WiFi (160MHz BW) VLP	79			11.70	10.70	7.20	6.20	9.10	8.10
	111			10.40	9.40	5.40	4.40	7.50	6.50
	143			10.40	9.40	5.40	4.40	7.50	6.50
	175			9.50	8.50	4.90	3.90	7.10	6.10
	207			9.50	8.50	6.20	5.20	8.00	7.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a							
		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	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	5	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	9-29	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	33-61	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	65-85	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	89	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	93	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	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			15.75	14.75	15.75	14.75	15.75	14.75
	11			15.75	14.75	15.75	14.75	15.75	14.75
	19-27			15.75	14.75	15.75	14.75	15.75	14.75
	35-59			15.75	14.75	15.75	14.75	15.75	14.75
	67-75			13.25	12.25	13.25	12.25	13.25	12.25
	83			13.25	12.25	13.25	12.25	13.25	12.25
	91			13.25	12.25	13.25	12.25	13.25	12.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			13.75	12.75	13.75	12.75	13.75	12.75
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			15.75	14.75	15.75	14.75	15.75	14.75
	23			15.75	14.75	15.75	14.75	15.75	14.75
	39-55			15.75	14.75	15.75	14.75	15.75	14.75
	71			13.25	12.25	13.25	12.25	13.25	12.25
	87			13.25	12.25	13.25	12.25	13.25	12.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.75	12.75	13.75	12.75	13.75	12.75
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			15.75	14.75	15.75	14.75	15.75	14.75
	47			15.75	14.75	15.75	14.75	15.75	14.75
	79			13.25	12.25	13.25	12.25	13.25	12.25
	111			NS	NS	NS	NS	NS	NS
	143			13.75	12.75	13.75	12.75	13.75	12.75
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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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	6.70	5.70	6.80	5.80	0.80	-0.20	3.80	2.80
	5	7.70	6.70	7.60	6.60	1.80	0.80	4.80	3.80
	9-29	7.60	6.60	7.60	6.60	1.70	0.70	4.70	3.70
	33-61	8.10	7.10	8.20	7.20	1.70	0.70	4.70	3.70
	65-85	8.60	7.60	8.70	7.70	2.30	1.30	5.30	4.30
	89	8.90	7.90	8.90	7.90	2.50	1.50	5.50	4.50
	93	8.70	7.70	8.90	7.90	2.40	1.40	5.40	4.40
	97-113	8.10	7.10	8.20	7.20	1.90	0.90	4.90	3.90
	117-181	6.80	5.80	6.70	5.70	0.50	-0.50	3.50	2.50
	185	6.80	5.80	7.10	6.10	0.50	-0.50	3.50	2.50
	189-225	9.50	8.50	9.60	8.60	1.40	0.40	4.20	3.20
	229	9.60	8.60	9.80	8.80	1.60	0.60	4.40	3.40
	233	8.70	7.70	8.80	7.80	0.60	-0.40	3.40	2.40
	3			9.70	8.70	3.90	2.90	6.90	5.90
6 GHz WiFi (40MHz BW) LP	11			10.70	9.70	4.60	3.60	7.60	6.60
	19-27			10.50	9.50	4.70	3.70	7.70	6.70
	35-59			11.20	10.20	4.60	3.60	7.60	6.60
	67-75			11.70	10.70	5.30	4.30	8.30	7.30
	83			11.80	10.80	5.20	4.20	8.20	7.20
	91			11.80	10.80	5.40	4.40	8.40	7.40
	99-107			11.10	10.10	4.80	3.80	7.80	6.80
	115			10.00	9.00	3.70	2.70	6.70	5.70
	123-179			9.90	8.90	3.70	2.70	6.70	5.70
	187			10.00	9.00	3.30	2.30	6.30	5.30
	195-219			12.60	11.60	4.40	3.40	7.20	6.20
	227			12.70	11.70	4.40	3.40	7.20	6.20
	7			12.75	11.75	6.80	5.80	9.80	8.80
	23			12.75	11.75	7.60	6.60	10.60	9.60
	39-55			12.75	11.75	7.70	6.70	10.70	9.70
6 GHz WiFi (80MHz BW) LP	71			14.00	13.00	8.20	7.20	11.20	10.20
	87			14.00	13.00	8.30	7.30	11.30	10.30
	103			13.50	12.50	7.90	6.90	10.90	9.90
	119			13.00	12.00	6.60	5.60	9.60	8.60
	135-167			12.80	11.80	6.60	5.60	9.60	8.60
	183			12.80	11.80	6.20	5.20	9.20	8.20
	199			13.75	12.75	7.30	6.30	10.10	9.10
	215			13.75	12.75	7.30	6.30	10.10	9.10
	15			12.75	11.75	9.60	8.60	12.60	11.60
	47			12.75	11.75	10.30	9.30	12.75	11.75
6 GHz WiFi (160MHz BW) LP	79			14.00	13.00	11.20	10.20	14.00	13.00
	111			13.50	12.50	9.40	8.40	12.40	11.40
	143			14.50	13.50	9.40	8.40	12.40	11.40
	175			14.50	13.50	8.90	7.90	11.90	10.90
	207			13.75	12.75	10.20	9.20	13.00	12.00

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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) 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	4.10	3.10	4.20	3.20	-2.30	-3.30	0.70	-0.30
	65-85	4.60	3.60	4.70	3.70	-1.70	-2.70	1.30	0.30
	89	4.90	3.90	4.90	3.90	-1.50	-2.50	1.50	0.50
	93	4.70	3.70	4.90	3.90	-1.60	-2.60	1.40	0.40
	97-113	4.10	3.10	4.20	3.20	-2.10	-3.10	0.90	-0.10
	117-181	2.80	1.80	2.70	1.70	-3.50	-4.50	-0.50	-1.50
	185	2.80	1.80	3.10	2.10	-3.50	-4.50	-0.50	-1.50
	189-225	5.50	4.50	5.60	4.60	-2.60	-3.60	0.20	-0.80
	229	5.60	4.60	5.80	4.80	-2.40	-3.40	0.40	-0.60
	233	4.70	3.70	4.80	3.80	-3.40	-4.40	-0.60	-1.60
	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			7.20	6.20	0.60	-0.40	3.60	2.60
	67-75			7.70	6.70	1.30	0.30	4.30	3.30
	83			7.80	6.80	1.20	0.20	4.20	3.20
	91			7.80	6.80	1.40	0.40	4.40	3.40
	99-107			7.10	6.10	0.80	-0.20	3.80	2.80
	115			6.00	5.00	-0.30	-1.30	2.70	1.70
	123-179			5.90	4.90	-0.30	-1.30	2.70	1.70
	187			6.00	5.00	-0.70	-1.70	2.30	1.30
	195-219			8.60	7.60	0.40	-0.60	3.20	2.20
	227			8.70	7.70	0.40	-0.60	3.20	2.20
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.30	9.30	3.70	2.70	6.70	5.70
6 GHz WiFi (80MHz BW) VLP	71			10.80	9.80	4.20	3.20	7.20	6.20
	87			10.80	9.80	4.30	3.30	7.30	6.30
	103			10.20	9.20	3.90	2.90	6.90	5.90
	119			9.00	8.00	2.60	1.60	5.60	4.60
	135-167			8.80	7.80	2.60	1.60	5.60	4.60
	183			8.80	7.80	2.20	1.20	5.20	4.20
	199			11.60	10.60	3.30	2.30	6.10	5.10
	215			11.50	10.50	3.30	2.30	6.10	5.10
	15			NS	NS	NS	NS	NS	NS
	47			12.00	11.00	6.30	5.30	8.50	7.50
6 GHz WiFi (160MHz BW) VLP	79			12.50	11.50	7.20	6.20	9.10	8.10
	111			10.70	9.70	5.40	4.40	7.50	6.50
	143			10.70	9.70	5.40	4.40	7.50	6.50
	175			10.70	9.70	4.90	3.90	7.10	6.10
	207			13.40	12.40	6.20	5.20	8.00	7.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a							
		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	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	5	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	9-29	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	33-61	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	65-85	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
	89	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
	93	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50
	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
	3			12.75	11.75	12.75	11.75	12.75	11.75
6 GHz WiFi (40MHz BW) SP	11			12.75	11.75	12.75	11.75	12.75	11.75
	19-27			12.75	11.75	12.75	11.75	12.75	11.75
	35-59			12.75	11.75	12.75	11.75	12.75	11.75
	67-75			14.00	13.00	14.00	13.00	14.00	13.00
	83			14.00	13.00	14.00	13.00	14.00	13.00
	91			14.00	13.00	14.00	13.00	14.00	13.00
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			14.50	13.50	14.50	13.50	14.50	13.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			12.75	11.75	12.75	11.75	12.75	11.75
	23			12.75	11.75	12.75	11.75	12.75	11.75
	39-55			12.75	11.75	12.75	11.75	12.75	11.75
6 GHz WiFi (80MHz BW) SP	71			14.00	13.00	14.00	13.00	14.00	13.00
	87			14.00	13.00	14.00	13.00	14.00	13.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			14.50	13.50	14.50	13.50	14.50	13.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			12.75	11.75	12.75	11.75	12.75	11.75
	47			12.75	11.75	12.75	11.75	12.75	11.75
	79			14.00	13.00	14.00	13.00	14.00	13.00
	111			NS	NS	NS	NS	NS	NS
	143			14.50	13.50	14.50	13.50	14.50	13.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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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 20 MHz Bandwidth LP	2	N5	N5	N5	N5	N5	N5	N5	N5
	1	6.90	5.90	6.90	5.90	0.80	-0.20	3.80	2.80
	5	7.90	6.90	8.00	7.00	1.80	0.80	4.80	3.80
	9-29	7.80	6.80	7.80	6.80	1.70	0.70	4.70	3.70
	33-61	7.20	6.20	7.30	6.30	1.70	0.70	4.70	3.70
	65-85	7.90	6.90	8.00	7.00	2.30	1.30	5.30	4.30
	89	8.00	7.00	8.20	7.20	2.50	1.50	5.50	4.50
	93	8.00	7.00	8.00	7.00	2.40	1.40	5.40	4.40
	97-113	7.40	6.40	7.60	6.60	1.90	0.90	4.90	3.90
	117-181	6.50	5.50	6.50	5.50	0.50	-0.50	3.50	2.50
	185	5.80	4.80	5.90	4.90	0.50	-0.50	3.50	2.50
	189-225	5.40	4.40	5.70	4.70	1.40	0.40	4.20	3.20
	229	5.70	4.70	5.90	4.90	1.60	0.60	4.40	3.40
	233	4.00	3.00	5.10	4.10	0.60	-0.40	3.40	2.40
	3			10.10	9.10	3.90	2.90	6.90	5.90
	11			10.70	9.70	4.60	3.60	7.60	6.60
6 GHz WiFi 40 MHz Bandwidth LP	19-27			10.90	9.90	4.70	3.70	7.70	6.70
	35-59			10.20	9.20	4.60	3.60	7.60	6.60
	67-75			10.90	9.90	5.30	4.30	8.30	7.30
	83			10.80	9.80	5.20	4.20	8.20	7.20
	91			11.10	10.10	5.40	4.40	8.40	7.40
	99-107			10.60	9.60	4.80	3.80	7.80	6.80
	115			9.60	8.60	3.70	2.70	6.70	5.70
	123-179			9.60	8.60	3.70	2.70	6.70	5.70
	187			8.70	7.70	3.30	2.30	6.30	5.30
	195-219			8.70	7.70	4.40	3.40	7.20	6.20
	227			8.70	7.70	4.40	3.40	7.20	6.20
	7			12.90	11.90	6.80	5.80	9.80	8.80
6 GHz WiFi 80 MHz Bandwidth LP	23			13.70	12.70	7.60	6.60	10.60	9.60
	39-55			13.30	12.30	7.70	6.70	10.70	9.70
	71			13.80	12.80	8.20	7.20	11.20	10.20
	87			13.90	12.90	8.30	7.30	11.30	10.30
	103			13.60	12.60	7.90	6.90	10.90	9.90
	119			12.50	11.50	6.60	5.60	9.60	8.60
	135-167			12.70	11.70	6.60	5.60	9.60	8.60
	183			11.70	10.70	6.20	5.20	9.20	8.20
	199			11.60	10.60	7.30	6.30	10.10	9.10
	215			11.80	10.80	7.30	6.30	10.10	9.10
	15			14.75	13.75	9.60	8.60	12.60	11.60
	47			14.75	13.75	10.30	9.30	13.30	12.30
6 GHz WiFi 160 MHz Bandwidth LP	79			14.75	13.75	11.20	10.20	14.20	13.20
	111			13.75	12.75	9.40	8.40	12.40	11.40
	143			13.50	12.50	9.40	8.40	12.40	11.40
	175			13.50	12.50	8.90	7.90	11.90	10.90
	207			13.75	12.75	10.20	9.20	13.00	12.00

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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 20 MHz Bandwidth 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	3.20	2.20	3.30	2.30	-2.30	-3.30	0.70	-0.30
	65-85	3.90	2.90	4.00	3.00	-1.70	-2.70	1.30	0.30
	89	4.00	3.00	4.20	3.20	-1.50	-2.50	1.50	0.50
	93	4.00	3.00	4.00	3.00	-1.60	-2.60	1.40	0.40
	97-113	3.40	2.40	3.60	2.60	-2.10	-3.10	0.90	-0.10
	117-181	2.50	1.50	2.50	1.50	-3.50	-4.50	-0.50	-1.50
	185	1.80	0.80	1.90	0.90	-3.50	-4.50	-0.50	-1.50
	189-225	1.40	0.40	1.70	0.70	-2.60	-3.60	0.20	-0.80
	229	1.70	0.70	1.90	0.90	-2.40	-3.40	0.40	-0.60
	233	1.00	0.00	1.10	0.10	-3.40	-4.40	-0.60	-1.60
	3			NS	NS	NS	NS	NS	NS
6 GHz WiFi 40 MHz Bandwidth VLP	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			6.20	5.20	0.60	-0.40	3.60	2.60
	67-75			6.90	5.90	1.30	0.30	4.30	3.30
	83			6.80	5.80	1.20	0.20	4.20	3.20
	91			7.10	6.10	1.40	0.40	4.40	3.40
	99-107			6.60	5.60	0.80	-0.20	3.80	2.80
	115			5.60	4.60	-0.30	-1.30	2.70	1.70
	123-179			5.60	4.60	-0.30	-1.30	2.70	1.70
	187			4.70	3.70	-0.70	-1.70	2.30	1.30
	195-219			4.70	3.70	0.40	-0.60	3.20	2.20
	227			4.70	3.70	0.40	-0.60	3.20	2.20
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			9.30	8.30	3.70	2.70	6.70	5.70
6 GHz WiFi 80 MHz Bandwidth VLP	71			9.80	8.80	4.20	3.20	7.20	6.20
	87			9.90	8.90	4.30	3.30	7.30	6.30
	103			9.60	8.60	3.90	2.90	6.90	5.90
	119			8.50	7.50	2.60	1.60	5.60	4.60
	135-167			8.70	7.70	2.60	1.60	5.60	4.60
	183			7.70	6.70	2.20	1.20	5.20	4.20
	199			7.60	6.60	3.30	2.30	6.10	5.10
	215			7.80	6.80	3.30	2.30	6.10	5.10
	15			NS	NS	NS	NS	NS	NS
	47			11.10	10.10	6.30	5.30	8.50	7.50
6 GHz WiFi 160 MHz Bandwidth VLP	79			11.70	10.70	7.20	6.20	9.10	8.10
	111			10.40	9.40	5.40	4.40	7.50	6.50
	143			10.40	9.40	5.40	4.40	7.50	6.50
	175			9.50	8.50	4.90	3.90	7.10	6.10
	207			9.50	8.50	6.20	5.20	8.00	7.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFSB							
		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 20 MHz Bandwidth 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	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50
	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
	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
6 GHz WiFi 40 MHz Bandwidth SP	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			13.50	12.50	13.50	12.50	13.50	12.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			14.75	13.75	14.75	13.75	14.75	13.75
6 GHz WiFi 80 MHz Bandwidth SP	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			13.50	12.50	13.50	12.50	13.50	12.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	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
6 GHz WiFi 160 MHz Bandwidth SP	79			14.75	13.75	14.75	13.75	14.75	13.75
	111			NS	NS	NS	NS	NS	NS
	143			13.50	12.50	13.50	12.50	13.50	12.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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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

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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
XHDP HDRPS 2	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
XHDP HDRPM 4/6/8	Maximum	12.50	5.50	12.50	5.50
	Nominal	11.50	4.50	11.50	4.50
XHDP HDRPM 12/16	Maximum	10.50	2.50	10.50	2.50
	Nominal	9.50	1.50	9.50	1.50
XHDP 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

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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	19.00	7.50
	Nominal	18.00	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	18.00	8.50
	Nominal	17.00	7.50

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1.3.5

NB UNII Maximum Output Power

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

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	11.50	-2.00	9.25	-2.00
	Nominal	10.50	-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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NB UNII-1 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	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-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	17.00	2.00	17.00	2.00
	Nominal	16.00	1.00	16.00	1.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	17.00	2.00	17.00	2.00
	Nominal	16.00	1.00	16.00	1.00
LE1M	Maximum	17.00	2.00	17.00	2.00
	Nominal	16.00	1.00	16.00	1.00
LE2M	Maximum	17.00	2.00	17.00	2.00
	Nominal	16.00	1.00	16.00	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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NB UNII-3 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	17.00	4.50	17.00	4.50
	Nominal	16.00	3.50	16.00	3.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	17.00	4.50	17.00	4.50
	Nominal	16.00	3.50	16.00	3.50
LE1M	Maximum	17.00	4.50	17.00	4.50
	Nominal	16.00	3.50	16.00	3.50
LE2M	Maximum	17.00	4.50	17.00	4.50
	Nominal	16.00	3.50	16.00	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
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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NB UNII-5 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	-7.00	-7.00	-13.50	-13.50
	Nominal	-8.00	-8.00	-14.50	-14.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-6.50	-6.50	-13.25	-13.25
	Nominal	-7.50	-7.50	-14.25	-14.25
LE1M	Maximum	-6.50	-6.50	-13.25	-13.25
	Nominal	-7.50	-7.50	-14.25	-14.25
LE2M	Maximum	-5.75	-5.75	-12.25	-12.25
	Nominal	-6.75	-6.75	-13.25	-13.25
HDR4	Maximum	-4.50	-4.50	-11.25	-11.25
	Nominal	-5.50	-5.50	-12.25	-12.25
HDR8	Maximum	-2.75	-2.75	-9.50	-9.50
	Nominal	-3.75	-3.75	-10.50	-10.50
XHDR HDRPS 2	Maximum	-4.50	-4.50	-11.00	-11.00
	Nominal	-5.50	-5.50	-12.00	-12.00
XHDRP HDRPM 4/6/8	Maximum	-1.75	-1.75	-8.50	-8.50
	Nominal	-2.75	-2.75	-9.50	-9.50
XHDRPM HDRPM 12/16	Maximum	-1.75	-4.00	-8.25	-8.25
	Nominal	-2.75	-5.00	-9.25	-9.25
XHDRPL HDRPL 8/12/16	Maximum	1.25	-1.00	-5.25	-5.25
	Nominal	0.25	-2.00	-6.25	-6.25
HDRPL 24/32	Maximum	1.00	-4.00	-5.50	-5.50
	Nominal	0.00	-5.00	-6.50	-6.50
HDT 2/3	Maximum	-4.25	-4.25	-10.75	-10.75
	Nominal	-5.25	-5.25	-11.75	-11.75
HDT4	Maximum	-4.25	-4.25	-10.75	-10.75
	Nominal	-5.25	-5.25	-11.75	-11.75
HDT 6/8	Maximum	-4.50	-4.50	-11.00	-11.00
	Nominal	-5.50	-5.50	-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 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	-7.75	-7.75	-14.00	-14.00
	Nominal	-8.75	-8.75	-15.00	-15.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.50	-7.50	-13.50	-13.50
	Nominal	-8.50	-8.50	-14.50	-14.50
LE1M	Maximum	-7.50	-7.50	-13.50	-13.50
	Nominal	-8.50	-8.50	-14.50	-14.50
LE2M	Maximum	-6.50	-6.50	-12.75	-12.75
	Nominal	-7.50	-7.50	-13.75	-13.75
HDR4	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
HDR8	Maximum	-3.75	-3.75	-9.75	-9.75
	Nominal	-4.75	-4.75	-10.75	-10.75
XHDR HDRPS 2	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
XHDRP HDRPM 4/6/8	Maximum	-2.75	-2.75	-8.75	-8.75
	Nominal	-3.75	-3.75	-9.75	-9.75
XHDRPM HDRPM 12/16	Maximum	-2.50	-2.50	-8.75	-8.75
	Nominal	-3.50	-3.50	-9.75	-9.75
XHDRPL HDRPL 8/12/16	Maximum	0.50	0.50	-5.75	-5.75
	Nominal	-0.50	-0.50	-6.75	-6.75
HDRPL 24/32	Maximum	0.00	-1.50	-6.00	-6.00
	Nominal	-1.00	-2.50	-7.00	-7.00
HDT 2/3	Maximum	-5.00	-5.00	-11.25	-11.25
	Nominal	-6.00	-6.00	-12.25	-12.25
HDT4	Maximum	-5.00	-5.00	-11.25	-11.25
	Nominal	-6.00	-6.00	-12.25	-12.25
HDT 6/8	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
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-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	-8.00	-8.00	-14.00	-14.00
	Nominal	-9.00	-9.00	-15.00	-15.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.75	-7.75	-13.50	-13.50
	Nominal	-8.75	-8.75	-14.50	-14.50
LE1M	Maximum	-7.75	-7.75	-13.50	-13.50
	Nominal	-8.75	-8.75	-14.50	-14.50
LE2M	Maximum	-6.75	-6.75	-12.75	-12.75
	Nominal	-7.75	-7.75	-13.75	-13.75
HDR4	Maximum	-5.75	-5.75	-11.50	-11.50
	Nominal	-6.75	-6.75	-12.50	-12.50
HDR8	Maximum	-4.00	-4.00	-9.75	-9.75
	Nominal	-5.00	-5.00	-10.75	-10.75
XHDR HDRPS 2	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
XHDRP HDRPM 4/6/8	Maximum	-3.00	-3.00	-8.75	-8.75
	Nominal	-4.00	-4.00	-9.75	-9.75
XHDRPM HDRPM 12/16	Maximum	-2.75	-4.00	-8.75	-8.75
	Nominal	-3.75	-5.00	-9.75	-9.75
XHDRPL HDRPL 8/12/16	Maximum	0.25	-1.00	-5.75	-5.75
	Nominal	-0.75	-2.00	-6.75	-6.75
HDRPL 24/32	Maximum	0.00	-4.00	-6.00	-6.00
	Nominal	-1.00	-5.00	-7.00	-7.00
HDT 2/3	Maximum	-5.25	-5.25	-11.25	-11.25
	Nominal	-6.25	-6.25	-12.25	-12.25
HDT4	Maximum	-5.25	-5.25	-11.25	-11.25
	Nominal	-6.25	-6.25	-12.25	-12.25
HDT 6/8	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
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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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.

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.

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Table 2-10
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 2-11
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 2-12
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

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1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. *2.4GHz WIFI and 2.4 GHz Bluetooth can transmit simultaneously on different antennas.
3. **2.4 GHz WIFI and 802.15.4 can transmit simultaneously on different antennas.
4. Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
7. This device supports VoWIFI.

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 WF5B, and U-NII-2A was evaluated for Antenna 4a and Antenna 2a. Additional testing for U-NII-2A Antenna WF5B and for U-NII-1 Antenna 4a and Antenna 2a 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.

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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 $\geq$ -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.

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.

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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)
- 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.

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1.9 Bibliography

Report Type	Report Serial Number
BCGA3358 FCC TAS Cellular Validation Report	1C2504170039-04.BCG-R1
BCGA3358 FCC TAS Connectivity Validation Report	1C2504170039-03.BCG-R3

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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 28 (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 - 2587.5 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 13: 5 MHz, 10 MHz			
	LTE Band 14: 5 MHz, 10 MHz			
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 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	Low-Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (131147)	680.5 (133297)	695.5 (135447)	
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26997)	831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)	
LTE Band 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 (132922)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132922)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132922)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132922)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132922)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132922)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19967)	1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27985)	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)	2636.5 (41055)	2680 (41490)
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	DL UE Cat 20, UL UE Cat 18			
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM			
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5?	YES			
(manufacturer attestation to be provided)				
A-MPR (Additional MPR) disabled for SAR	YES			
LTE Carrier Aggregation Possible	The technical description includes all the possible carrier aggregation combinations			
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA 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 15 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eCIC, WiFi Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.			

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3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

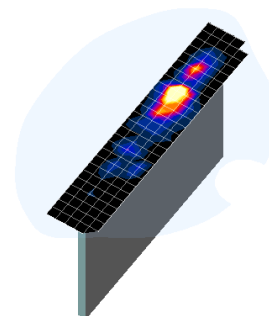


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance. Per Interim Simplified Guidance for Testing §2.1093-Portable Devices, body exposure for all §2.1093-Portable devices, thus including laptops/tablets and similar form factor devices, must be demonstrated at distances not to exceed 5 mm, unless an on-body holder is available and shown in grant exhibits, in which case the minimum test separation distance can be increased as supported by the holder structure, but not to exceed 25 mm (consistent with present guidance since KDB 447498v06).

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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 MT8821C 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	23.20	23.14	23.02	19.08	19.13	18.94	18.02	17.91	17.68	-
6	HSDPA	Subtest 1	23.15	23.12	23.08	19.02	19.06	19.00	18.06	17.88	17.65	0
6		Subtest 2	23.09	23.07	22.99	18.97	18.99	18.91	17.98	17.79	17.62	0
6		Subtest 3	22.66	22.61	22.56	18.59	18.63	18.54	17.49	17.44	17.19	0.5
6		Subtest 4	22.61	22.55	22.47	18.51	18.59	18.48	17.53	17.39	17.17	0.5
6	HSUPA	Subtest 1	22.87	22.82	22.93	18.72	18.75	18.62	17.99	17.93	17.64	0
6		Subtest 2	20.83	20.77	20.85	16.64	16.61	16.58	15.87	15.84	15.59	2
6		Subtest 3	21.90	21.86	21.95	17.69	17.77	17.63	16.93	16.88	16.57	1
6		Subtest 4	20.84	20.79	20.88	16.68	16.72	16.61	15.86	15.85	15.64	2
6		Subtest 5	22.86	22.83	22.90	18.75	18.68	18.59	17.94	17.69	17.58	0
8	DC-HSDPA	Subtest 1	22.98	22.93	22.86	18.95	19.01	18.94	18.01	17.87	17.63	0
8		Subtest 2	22.91	22.84	22.80	18.89	18.94	18.88	17.96	17.79	17.56	0
8		Subtest 3	22.46	22.47	22.35	18.37	18.43	18.49	17.58	17.43	17.22	0.5
8		Subtest 4	22.39	22.43	22.34	18.42	18.39	18.42	17.54	17.49	17.19	0.5

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

Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
		1312	1412	1513	9262	9400	9538	
WCDMA	12.2 kbps RMC	19.72	19.80	19.78	18.91	18.79	18.71	-
HSDPA	Subtest 1	19.66	19.74	19.71	18.82	18.68	18.64	0
	Subtest 2	19.59	19.61	19.63	18.79	18.65	18.61	0
	Subtest 3	19.07	19.16	19.16	18.38	18.24	18.22	0.5
	Subtest 4	19.04	19.08	19.11	18.32	18.18	18.17	0.5
HSUPA	Subtest 1	19.61	19.71	19.67	18.76	18.65	18.63	0
	Subtest 2	17.53	17.59	17.56	16.71	16.58	16.56	2
	Subtest 3	18.56	18.67	18.61	17.63	17.51	17.50	1
	Subtest 4	17.64	17.76	17.62	16.69	16.55	16.53	2
	Subtest 5	19.59	19.68	19.66	18.72	18.63	18.59	0
DC-HSDPA	Subtest 1	19.58	19.68	19.67	18.69	18.62	18.58	0
	Subtest 2	19.61	19.73	19.70	18.63	18.51	18.49	0
	Subtest 3	18.99	19.05	19.02	18.07	18.04	18.01	0.5
	Subtest 4	18.97	19.03	19.01	18.16	18.11	18.07	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	23.68	23.64	23.65	17.56	17.51	17.55	17.12	16.97	16.93	-
6	HSDPA	Subtest 1	23.64	23.61	23.56	17.49	17.52	17.39	16.94	16.83	16.79	0
6		Subtest 2	23.57	23.52	23.60	17.42	17.46	17.33	16.88	16.79	16.76	0
6		Subtest 3	23.11	23.07	23.01	16.91	16.94	16.88	16.37	16.29	16.22	0.5
6		Subtest 4	23.04	23.05	23.07	16.96	17.01	16.81	16.34	16.31	16.24	0.5
6	HSUPA	Subtest 1	23.46	23.39	23.38	17.47	17.49	17.36	17.01	16.93	16.88	0
6		Subtest 2	21.40	21.33	21.31	15.51	15.54	15.42	14.96	14.87	14.83	2
6		Subtest 3	22.37	22.32	22.34	16.42	16.42	16.39	16.05	16.01	15.96	1
6		Subtest 4	21.49	21.43	21.42	15.39	15.38	15.41	14.89	14.82	14.78	2
6		Subtest 5	23.41	23.38	23.33	17.43	17.44	17.38	16.93	16.88	16.85	0
8	DC-HSDPA	Subtest 1	23.62	23.59	23.53	17.44	17.50	17.35	16.91	16.87	16.83	0
8		Subtest 2	23.54	23.52	23.47	17.39	17.43	17.32	16.86	16.79	16.74	0
8		Subtest 3	23.01	22.98	22.99	16.97	17.04	16.81	16.47	16.41	16.29	0.5
8		Subtest 4	23.05	23.01	23.03	17.01	17.07	16.83	16.41	16.38	16.26	0.5

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

Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
		1312	1412	1513	9262	9400	9538	
WCDMA	12.2 kbps RMC	18.10	18.02	17.95	19.21	19.10	18.84	-
HSDPA	Subtest 1	18.03	17.96	17.91	19.03	18.97	18.79	0
	Subtest 2	17.99	17.92	17.88	19.01	18.92	18.74	0
	Subtest 3	17.49	17.47	17.39	18.44	18.39	18.18	0.5
	Subtest 4	17.43	17.42	17.36	18.41	18.36	18.21	0.5
HSUPA	Subtest 1	17.97	17.93	17.89	19.04	18.87	18.78	0
	Subtest 2	15.92	15.89	15.82	17.02	16.91	16.84	2
	Subtest 3	16.91	16.87	16.90	17.99	17.84	17.79	1
	Subtest 4	15.94	15.88	15.79	17.07	16.96	16.86	2
	Subtest 5	17.89	17.86	17.83	18.99	18.92	18.82	0
DC-HSDPA	Subtest 1	17.98	17.91	17.86	19.07	18.96	18.84	0
	Subtest 2	17.94	17.83	17.79	18.99	18.95	18.86	0
	Subtest 3	17.38	17.36	17.22	18.45	18.36	18.29	0.5
	Subtest 4	17.42	17.31	17.19	18.48	18.31	18.26	0.5

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DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA



Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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.

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.

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8.2.1

LTE Band 71

Table 8-5

LTE Band 71 Measured P_{Max} 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	23.36	0	0
	1	50	23.62		0
	1	99	23.34		0
	50	0	22.87	0-1	1
	50	25	22.95		1
	50	50	22.97		1
	100	0	22.96		1
16QAM	1	0	22.76	0-1	1
	1	50	23.01		1
	1	99	22.68		1
	50	0	21.72	0-2	2
	50	25	22.02		2
	50	50	21.69		2
	100	0	21.71		2
64QAM	1	0	22.01	0-2	2
	1	50	21.71		2
	1	99	21.77		2
	50	0	21.01	0-3	3
	50	25	20.69		3
	50	50	20.74		3
	100	0	21.01		3
256QAM	1	0	18.74	0-5	5
	1	50	18.73		5
	1	99	19.01		5
	50	0	18.69		5
	50	25	18.77		5
	50	50	18.98		5
	100	0	18.71		5

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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	23.79	0	0
	1	50	24.21		0
	1	99	23.80		0
	50	0	24.02	0-1	0
	50	25	24.09		0
	50	50	24.04		0
	100	0	24.07		0
16QAM	1	0	23.40	0-1	0
	1	50	23.82		0
	1	99	23.50		0
	50	0	22.78	0-2	0.8
	50	25	22.81		0.8
	50	50	22.84		0.8
	100	0	22.86		0.8
64QAM	1	0	23.10	0-2	0.8
	1	50	22.98		0.8
	1	99	23.25		0.8
	50	0	21.88	0-3	1.8
	50	25	22.37		1.8
	50	50	22.32		1.8
	100	0	21.78		1.8
256QAM	1	0	19.99	0-5	3.8
	1	50	20.29		3.8
	1	99	19.69		3.8
	50	0	20.20		3.8
	50	25	20.28		3.8
	50	50	20.18		3.8
	100	0	19.61		3.8

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8.2.2

LTE Band 12

Table 8-7

LTE Band 12 Measured P_{Max} 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	23.92	0	0
	1	25	23.84		0
	1	49	23.89		0
	25	0	23.43	0-1	1
	25	12	23.40		1
	25	25	23.45		1
	50	0	23.44		1
16QAM	1	0	22.76	0-1	1
	1	25	22.85		1
	1	49	22.71		1
	25	0	21.74	0-2	2
	25	12	21.79		2
	25	25	21.70		2
	50	0	21.73		2
64QAM	1	0	21.87	0-2	2
	1	25	21.70		2
	1	49	21.77		2
	25	0	20.88	0-3	3
	25	12	20.94		3
	25	25	20.74		3
	50	0	20.77		3
256QAM	1	0	18.94	0-5	5
	1	25	18.75		5
	1	49	18.71		5
	25	0	18.78		5
	25	12	18.77		5
	25	25	18.77		5
	50	0	18.76		5

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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	24.28	0	0
	1	25	24.17		0
	1	49	24.15		0
	25	0	24.12	0-1	0.3
	25	12	24.01		0.3
	25	25	24.04		0.3
	50	0	23.90		0.3
16QAM	1	0	23.73	0-1	0.3
	1	25	23.61		0.3
	1	49	23.48		0.3
	25	0	22.89	0-2	1.3
	25	12	22.84		1.3
	25	25	22.83		1.3
	50	0	22.89		1.3
64QAM	1	0	22.75	0-2	1.3
	1	25	22.63		1.3
	1	49	22.85		1.3
	25	0	21.69	0-3	2.3
	25	12	21.90		2.3
	25	25	21.82		2.3
	50	0	21.71		2.3
256QAM	1	0	19.81	0-5	4.3
	1	25	19.74		4.3
	1	49	19.81		4.3
	25	0	19.87		4.3
	25	12	19.84		4.3
	25	25	19.83		4.3
	50	0	19.86		4.3

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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	23.82	0	0
	1	25	23.62		0
	1	49	23.54		0
	25	0	23.64	0-1	0.6
	25	12	23.62		0.6
	25	25	23.48		0.6
	50	0	23.49		0.6
16QAM	1	0	23.01	0-1	0.6
	1	25	22.97		0.6
	1	49	23.21		0.6
	25	0	21.94	0-2	1.6
	25	12	21.96		1.6
	25	25	22.08		1.6
	50	0	21.91		1.6
64QAM	1	0	22.19	0-2	1.6
	1	25	22.07		1.6
	1	49	22.13		1.6
	25	0	20.99	0-3	2.6
	25	12	20.92		2.6
	25	25	21.01		2.6
	50	0	21.14		2.6
256QAM	1	0	19.00	0-5	4.6
	1	25	19.07		4.6
	1	49	18.93		4.6
	25	0	18.96		4.6
	25	12	19.16		4.6
	25	25	19.03		4.6
	50	0	19.12		4.6

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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	22.79	0	0
	1	25	22.83		0
	1	49	22.94		0
	25	0	22.90	0-1	0
	25	12	22.85		0
	25	25	22.93		0
	50	0	22.85		0
16QAM	1	0	22.70	0-1	0
	1	25	22.71		0
	1	49	22.90		0
	25	0	22.67	0-2	0
	25	12	22.73		0
	25	25	22.88		0
	50	0	22.73		0
64QAM	1	0	22.73	0-2	0
	1	25	22.90		0
	1	49	22.68		0
	25	0	21.93	0-3	0.8
	25	12	22.07		0.8
	25	25	21.93		0.8
	50	0	21.90		0.8
256QAM	1	0	20.09	0-5	2.8
	1	25	19.90		2.8
	1	49	19.94		2.8
	25	0	20.04		2.8
	25	12	19.93		2.8
	25	25	19.92		2.8
	50	0	20.07		2.8

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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	23.11	0	0
	1	25	23.30		0
	1	49	23.18		0
	25	0	23.17	0-1	0.6
	25	12	23.14		0.6
	25	25	23.12		0.6
	50	0	23.16		0.6
16QAM	1	0	22.75	0-1	0.6
	1	25	22.55		0.6
	1	49	22.59		0.6
	25	0	21.69	0-2	1.6
	25	12	21.54		1.6
	25	25	21.71		1.6
	50	0	21.80		1.6
64QAM	1	0	21.67	0-2	1.6
	1	25	21.57		1.6
	1	49	21.77		1.6
	25	0	20.77	0-3	2.6
	25	12	20.76		2.6
	25	25	20.69		2.6
	50	0	20.55		2.6
256QAM	1	0	18.78	0-5	4.6
	1	25	18.75		4.6
	1	49	18.54		4.6
	25	0	18.56		4.6
	25	12	18.53		4.6
	25	25	18.60		4.6
	50	0	18.62		4.6

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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	22.80	0	0
	1	25	22.96		0
	1	49	22.85		0
	25	0	22.95	0-1	0
	25	12	22.97		0
	25	25	22.96		0
	50	0	22.87		0
16QAM	1	0	22.71	0-1	0
	1	25	22.82		0
	1	49	22.79		0
	25	0	22.70	0-2	0
	25	12	22.87		0
	25	25	22.73		0
	50	0	22.73		0
64QAM	1	0	22.82	0-2	0
	1	25	22.79		0
	1	49	22.75		0
	25	0	22.06	0-3	0.8
	25	12	21.93		0.8
	25	25	21.96		0.8
	50	0	22.03		0.8
256QAM	1	0	19.94	0-5	2.8
	1	25	19.91		2.8
	1	49	20.05		2.8
	25	0	19.93		2.8
	25	12	19.91		2.8
	25	25	20.08		2.8
	50	0	19.99		2.8

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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	23.07	22.98	23.11	0	0
	1	25	23.14	23.05	23.10		0
	1	49	23.27	23.05	23.14		0
	25	0	23.18	23.19	23.22	0-1	0.2
	25	12	23.20	23.22	23.12		0.2
	25	25	23.27	23.18	23.19		0.2
	50	0	23.22	23.14	23.12		0.2
16QAM	1	0	22.76	22.64	22.86	0-1	0.2
	1	25	22.87	22.77	22.83		0.2
	1	49	22.97	22.74	22.86		0.2
	25	0	21.78	21.70	21.82	0-2	1.2
	25	12	21.86	21.75	21.84		1.2
	25	25	21.98	21.74	21.86		1.2
	50	0	21.77	21.67	21.84		1.2
64QAM	1	0	21.90	21.75	21.80	0-2	1.2
	1	25	22.00	21.74	21.89		1.2
	1	49	21.75	21.67	21.82		1.2
	25	0	20.91	20.78	20.80	0-3	2.2
	25	12	20.99	20.77	20.88		2.2
	25	25	20.78	20.69	20.83		2.2
	50	0	20.85	20.75	20.83		2.2
256QAM	1	0	18.98	18.76	18.88	0-5	4.2
	1	25	18.80	18.70	18.87		4.2
	1	49	18.90	18.81	18.80		4.2
	25	0	18.99	18.71	18.87		4.2
	25	12	18.78	18.66	18.86		4.2
	25	25	18.90	18.75	18.82		4.2
	50	0	18.99	18.71	18.85		4.2

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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	23.79	23.51	23.49	0	0
	1	25	23.65	23.51	23.55		0
	1	49	23.56	23.47	23.50		0
	25	0	23.68	23.61	23.68	0-1	0
	25	12	23.78	23.58	23.57		0
	25	25	23.73	23.63	23.63		0
	50	0	23.73	23.54	23.60		0
16QAM	1	0	23.59	23.57	23.51	0-1	0
	1	25	23.63	23.69	23.69		0
	1	49	23.69	23.70	23.75		0
	25	0	23.10	22.97	22.93	0-2	0.5
	25	12	22.93	23.24	23.07		0.5
	25	25	23.25	22.97	22.99		0.5
	50	0	23.03	23.18	23.15		0.5
64QAM	1	0	23.11	23.19	23.08	0-2	0.5
	1	25	23.25	23.23	23.05		0.5
	1	49	23.12	23.03	23.06		0.5
	25	0	22.21	21.99	21.96	0-3	1.5
	25	12	22.18	22.08	22.12		1.5
	25	25	22.12	21.91	22.24		1.5
	50	0	22.05	22.18	21.96		1.5
256QAM	1	0	20.12	19.92	19.95	0-5	3.5
	1	25	20.06	20.04	19.97		3.5
	1	49	20.21	20.11	20.21		3.5
	25	0	20.13	20.21	19.90		3.5
	25	12	20.10	20.14	20.01		3.5
	25	25	20.13	20.14	19.98		3.5
	50	0	20.00	19.96	20.03		3.5

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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	23.22	0	0
	1	25	23.35		0
	1	49	23.27		0
	25	0	23.37	0-1	0.2
	25	12	23.40		0.2
	25	25	23.48		0.2
	50	0	23.34		0.2
16QAM	1	0	22.98	0-1	0.2
	1	25	23.09		0.2
	1	49	23.00		0.2
	25	0	21.95	0-2	1.2
	25	12	22.08		1.2
	25	25	21.97		1.2
	50	0	21.95		1.2
64QAM	1	0	22.07	0-2	1.2
	1	25	22.00		1.2
	1	49	21.94		1.2
	25	0	21.07	0-3	2.2
	25	12	20.96		2.2
	25	25	20.95		2.2
	50	0	21.06		2.2
256QAM	1	0	18.97	0-5	4.2
	1	25	18.98		4.2
	1	49	19.06		4.2
	25	0	18.99		4.2
	25	12	18.98		4.2
	25	25	19.07		4.2
	50	0	19.01		4.2

Table 8-16

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

Combination	PCC Band	PCC Bandwidth [MHz]	PCC							SCC							Power			
			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	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	23.45	23.27

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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	23.50	0	0
	1	25	23.44		0
	1	49	23.66		0
	25	0	23.65	0-1	0
	25	12	23.62		0
	25	25	23.68		0
	50	0	23.60		0
16QAM	1	0	23.37	0-1	0
	1	25	23.55		0
	1	49	23.43		0
	25	0	22.93	0-2	0.5
	25	12	23.00		0.5
	25	25	23.07		0.5
	50	0	22.87		0.5
64QAM	1	0	22.90	0-2	0.5
	1	25	22.90		0.5
	1	49	22.86		0.5
	25	0	22.06	0-3	1.5
	25	12	21.98		1.5
	25	25	22.06		1.5
	50	0	21.95		1.5
256QAM	1	0	19.89	0-5	3.5
	1	25	20.00		3.5
	1	49	19.88		3.5
	25	0	20.10		3.5
	25	12	19.86		3.5
	25	25	20.03		3.5
	50	0	19.97		3.5

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

Combination	PCC Band	PCC Bandwidth [MHz]	PCC				Modulation	PCC UL#		SCC Band	SCC Bandwidth [MHz]	SCC				Modulation	SCC UL#		Power	
			PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]		PCC UL# RB	PCC UL RB Offset			SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]		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	23.66	23.60

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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	19.00	18.92	18.93	0	0	
	1	50	19.09	18.94	18.94		0	
	1	99	19.06	18.91	18.92		0	
	50	0	19.17	19.03	18.99	0-1	0	
	50	25	19.06	18.95	18.96		0	
	50	50	19.08	18.94	18.95		0	
16QAM	100	0	19.05	18.92	18.91	0-1	0	
	1	0	18.96	18.94	18.96		0	
	1	50	18.99	19.02	19.06		0	
	1	99	18.93	19.02	18.97	0-2	0	
	50	0	18.94	18.94	18.97		0	
	50	25	19.00	19.03	19.02		0	
64QAM	50	50	18.94	18.98	18.95	0-2	0	
	100	0	18.94	18.94	18.91		0	
	1	0	19.01	19.06	19.02		0-2	0
	1	50	18.98	19.00	18.96	0		
	1	99	18.94	18.92	18.93	0		
	50	0	19.00	19.01	19.04	0-3	0	
50	25	18.98	19.03	19.01	0			
50	50	18.95	18.99	18.91	0			
256QAM	100	0	19.01	19.05	19.01	0-3	0	
	1	0	18.93	19.03	18.97		0-5	0
	1	50	18.97	18.93	18.95			0
	1	99	18.98	19.03	19.01	0		
	50	0	18.93	18.98	18.98	0		
	50	25	18.97	18.94	18.92	0		
50	50	19.00	19.05	19.05	0			
100	0	18.93	18.99	18.96	0			

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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	19.80	19.72	19.52	0	0	
	1	50	19.91	19.83	19.71		0	
	1	99	19.70	19.69	19.64		0	
	50	0	19.88	19.83	19.65	0-1	0	
	50	25	19.99	19.85	19.68		0	
	50	50	19.98	19.84	19.67		0	
16QAM	100	0	19.84	19.81	19.68	0-1	0	
	1	0	19.66	19.56	19.67		0-1	0
	1	50	19.75	19.56	19.84			0
	1	99	19.70	19.58	19.82	0-2	0	
	50	0	19.86	19.80	19.53		0	
	50	25	19.71	19.60	19.85		0	
50	50	19.78	19.67	19.58	0			
64QAM	100	0	19.83	19.77	19.68	0-2	0	
	1	0	19.61	19.68	19.68		0-2	0
	1	50	19.85	19.88	19.76			0
	1	99	19.76	19.52	19.77	0-3	0	
	50	0	19.74	19.59	19.84		0	
	50	25	19.66	19.80	19.73		0	
50	50	19.72	19.64	19.63	0			
256QAM	100	0	19.81	19.58	19.76	0-5	0	
	1	0	19.56	19.68	19.63		0	
	1	50	19.70	19.72	19.72		0	
	1	99	19.59	19.89	19.86		0	
	50	0	19.71	19.82	19.53		0	
	50	25	19.61	19.68	19.59		0	
256QAM	50	50	19.83	19.60	19.63	0		
	100	0	19.60	19.53	19.71	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	17.17	17.03	16.99	0	0
	1	50	17.34	17.19	17.16		0
	1	99	17.13	17.01	16.96		0
	50	0	17.36	17.27	17.16	0-1	0
	50	25	17.35	17.26	17.21		0
	50	50	17.38	17.23	17.25		0
16QAM	100	0	17.32	17.27	17.21	0	
	1	0	17.07	16.94	16.94	0-1	0
	1	50	17.26	17.14	17.12		0
	1	99	17.01	16.87	16.91		0
	50	0	17.10	16.96	16.95	0-2	0
	50	25	17.25	17.11	17.07		0
50	50	17.00	16.91	16.88	0		
64QAM	100	0	17.08	16.95	16.96	0	
	1	0	17.31	17.11	17.09	0-2	0
	1	50	17.04	16.88	16.86		0
	1	99	17.11	16.97	16.93		0
	50	0	17.28	17.09	17.10	0-3	0
	50	25	17.02	16.93	16.87		0
50	50	17.11	16.96	16.94	0		
256QAM	100	0	17.28	17.14	17.10	0	
	1	0	17.02	16.92	16.86	0-5	0
	1	50	17.07	16.93	16.92		0
	1	99	17.26	17.14	17.08		0
	50	0	17.02	16.89	16.89		0
	50	25	17.07	16.92	16.90		0
50	50	17.29	17.11	17.06	0		
	100	0	17.03	16.92	16.87	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	17.62	17.42	17.43	0	0
	1	50	17.78	17.70	17.54		0
	1	99	17.63	17.50	17.47		0
	50	0	17.82	17.70	17.74	0-1	0
	50	25	17.78	17.66	17.65		0
	50	50	17.76	17.64	17.69		0
	100	0	17.74	17.73	17.71		0
16QAM	1	0	17.52	17.34	17.38	0-1	0
	1	50	17.66	17.60	17.48		0
	1	99	17.53	17.38	17.37		0
	50	0	17.52	17.32	17.37	0-2	0
	50	25	17.69	17.64	17.44		0
	50	50	17.53	17.37	17.39		0
	100	0	17.51	17.34	17.35		0
64QAM	1	0	17.68	17.66	17.48	0-2	0
	1	50	17.54	17.42	17.42		0
	1	99	17.52	17.36	17.36		0
	50	0	17.72	17.65	17.44	0-3	0
	50	25	17.49	17.36	17.37		0
	50	50	17.51	17.35	17.38		0
	100	0	17.68	17.62	17.48		0
256QAM	1	0	17.49	17.38	17.40	0-5	0
	1	50	17.53	17.33	17.34		0
	1	99	17.66	17.66	17.43		0
	50	0	17.55	17.39	17.43		0
	50	25	17.51	17.35	17.38		0
	50	50	17.69	17.60	17.44		0
	100	0	17.54	17.40	17.38		0

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8.2.8

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	17.92	17.92	17.92	0	0
	1	50	18.20	18.17	18.18		0
	1	99	17.96	17.93	17.91		0
	50	0	18.21	18.10	18.11	0-1	0
	50	25	18.14	18.16	18.17		0
	50	50	18.11	18.08	18.09		0
	100	0	18.15	18.14	18.12		0
16QAM	1	0	17.81	17.85	17.81	0-1	0
	1	50	18.10	18.09	18.10		0
	1	99	17.86	17.85	17.78		0
	50	0	17.83	17.87	17.84	0-2	0
	50	25	18.08	18.06	18.09		0
	50	50	17.88	17.84	17.79		0
	100	0	17.81	17.85	17.79		0
64QAM	1	0	18.12	18.06	18.13	0-2	0
	1	50	17.89	17.82	17.81		0
	1	99	17.82	17.84	17.78		0
	50	0	18.07	18.07	18.14	0-3	0
	50	25	17.87	17.83	17.81		0
	50	50	17.86	17.87	17.84		0
	100	0	18.11	18.11	18.14		0
256QAM	1	0	17.88	17.87	17.79	0-5	0
	1	50	17.82	17.84	17.82		0
	1	99	18.12	18.10	18.10		0
	50	0	17.85	17.83	17.82		0
	50	25	17.84	17.83	17.83		0
	50	50	18.09	18.12	18.11		0
	100	0	17.86	17.85	17.79		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	18.64	18.61	18.42	0	0
	1	50	18.86	18.79	18.43		0
	1	99	18.71	18.64	18.41		0
	50	0	18.88	18.83	18.71	0-1	0
	50	25	18.87	18.81	18.66		0
	50	50	18.94	18.80	18.68		0
	100	0	18.85	18.78	18.69		0
16QAM	1	0	18.91	18.96	18.79	0-1	0
	1	50	18.74	18.61	18.64		0
	1	99	18.77	18.72	18.65		0
	50	0	18.58	18.46	18.95	0-2	0
	50	25	18.93	18.63	18.58		0
	50	50	18.91	18.71	18.66		0
	100	0	18.79	18.47	18.56		0
64QAM	1	0	18.53	18.96	18.81	0-2	0
	1	50	18.47	18.84	18.79		0
	1	99	18.72	18.60	18.85		0
	50	0	18.51	18.84	18.84	0-3	0
	50	25	18.50	18.76	18.70		0
	50	50	18.63	18.85	18.79		0
	100	0	18.47	18.57	18.53		0
256QAM	1	0	18.54	18.45	18.75	0-5	0.6
	1	50	18.52	18.64	18.71		0.6
	1	99	18.80	18.76	18.57		0.6
	50	0	18.79	18.75	18.51		0.6
	50	25	18.59	18.83	18.63		0.6
	50	50	18.48	18.57	18.52		0.6
	100	0	18.72	18.54	18.69		0.6

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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	16.76	16.44	16.36	0	0
	1	50	16.91	16.58	16.55		0
	1	99	16.70	16.47	16.42		0
	50	0	16.92	16.68	16.54	0-1	0
	50	25	16.84	16.65	16.57		0
	50	50	16.87	16.63	16.60		0
	100	0	16.89	16.66	16.63		0
16QAM	1	0	16.69	16.36	16.25	0-1	0
	1	50	16.80	16.50	16.45		0
	1	99	16.61	16.40	16.31		0
	50	0	16.69	16.36	16.27	0-2	0
	50	25	16.83	16.52	16.50		0
	50	50	16.60	16.39	16.28		0
	100	0	16.74	16.40	16.24		0
64QAM	1	0	16.84	16.52	16.46	0-2	0
	1	50	16.57	16.36	16.31		0
	1	99	16.72	16.41	16.24		0
	50	0	16.85	16.53	16.44	0-3	0
	50	25	16.60	16.38	16.29		0
	50	50	16.72	16.35	16.24		0
	100	0	16.81	16.56	16.45		0
256QAM	1	0	16.56	16.36	16.32	0-5	0
	1	50	16.72	16.41	16.26		0
	1	99	16.84	16.52	16.44		0
	50	0	16.59	16.37	16.29		0
	50	25	16.72	16.36	16.24		0
	50	50	16.83	16.50	16.45		0
	100	0	16.61	16.38	16.34		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	19.02	18.89	18.58	0	0
	1	50	19.21	19.10	18.95		0
	1	99	18.90	18.83	18.52		0
	50	0	19.28	19.13	19.00	0-1	0
	50	25	19.19	19.08	18.93		0
	50	50	19.22	19.11	18.97		0
	100	0	19.18	19.09	18.69		0
16QAM	1	0	18.99	18.79	18.52	0-1	0
	1	50	19.13	19.02	18.90		0
	1	99	18.82	18.76	18.42		0
	50	0	18.94	18.83	18.47	0-2	0
	50	25	19.09	19.01	18.92		0
	50	50	18.81	18.80	18.44		0
	100	0	18.94	18.78	18.48		0
64QAM	1	0	19.11	19.00	18.88	0-2	0
	1	50	18.82	18.75	18.41		0
	1	99	18.98	18.82	18.51		0
	50	0	19.10	18.98	18.92	0-3	0
	50	25	18.76	18.80	18.39		0
	50	50	18.98	18.80	18.52		0
	100	0	19.15	18.98	18.91		0
256QAM	1	0	18.82	18.76	18.40	0-5	0
	1	50	18.94	18.82	18.50		0
	1	99	19.10	18.98	18.89		0
	50	0	18.77	18.78	18.43		0
	50	25	18.95	18.83	18.49		0
	50	50	19.12	19.02	18.92		0
	100	0	18.76	18.80	18.43		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	19.03	0	0
	1	25	19.20		0
	1	49	19.04		0
	25	0	19.24	0-1	0
	25	12	19.19		0
	25	25	19.16		0
	50	0	19.18		0
16QAM	1	0	19.01	0-1	0
	1	25	19.13		0
	1	49	18.97		0
	25	0	19.01	0-2	0
	25	12	19.12		0
	25	25	19.01		0
	50	0	19.01		0
64QAM	1	0	19.14	0-2	0
	1	25	18.96		0
	1	49	18.97		0
	25	0	19.11	0-3	0
	25	12	18.98		0
	25	25	18.98		0
	50	0	19.14		0
256QAM	1	0	18.66	0-5	0.3
	1	25	18.66		0.3
	1	49	18.82		0.3
	25	0	18.71		0.3
	25	12	18.66		0.3
	25	25	18.80		0.3
	50	0	18.70		0.3

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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	20.43	0	0
	1	25	20.34		0
	1	49	20.44		0
	25	0	20.35	0-1	0
	25	12	20.31		0
	25	25	20.40		0
	50	0	20.38		0
16QAM	1	0	20.21	0-1	0
	1	25	20.25		0
	1	49	20.35		0
	25	0	20.21	0-2	0
	25	12	20.26		0
	25	25	20.38		0
	50	0	20.30		0
64QAM	1	0	20.33	0-2	0
	1	25	20.22		0
	1	49	20.39		0
	25	0	20.36	0-3	0
	25	12	20.35		0
	25	25	20.34		0
	50	0	20.22		0
256QAM	1	0	18.98	0-5	1.3
	1	25	18.96		1.3
	1	49	19.05		1.3
	25	0	19.09		1.3
	25	12	19.03		1.3
	25	25	18.91		1.3
	50	0	19.01		1.3

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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	16.86	0	0
	1	25	16.83		0
	1	49	16.73		0
	25	0	16.85	0-1	0
	25	12	16.79		0
	25	25	16.78		0
	50	0	16.84		0
16QAM	1	0	16.76	0-1	0
	1	25	16.73		0
	1	49	16.61		0
	25	0	16.76	0-2	0
	25	12	16.75		0
	25	25	16.61		0
	50	0	16.78		0
64QAM	1	0	16.73	0-2	0
	1	25	16.61		0
	1	49	16.76		0
	25	0	16.74	0-3	0
	25	12	16.65		0
	25	25	16.74		0
	50	0	16.76		0
256QAM	1	0	16.32	0-5	0.1
	1	25	16.48		0.1
	1	49	16.43		0.1
	25	0	16.31		0.1
	25	12	16.50		0.1
	25	25	16.47		0.1
	50	0	16.36		0.1

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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	18.70	0	0
	1	25	18.59		0
	1	49	18.53		0
	25	0	18.63	0-1	0
	25	12	18.68		0
	25	25	18.57		0
	50	0	18.67		0
16QAM	1	0	18.61	0-1	0
	1	25	18.50		0
	1	49	18.45		0
	25	0	18.61	0-2	0
	25	12	18.46		0
	25	25	18.48		0
	50	0	18.62		0
64QAM	1	0	18.48	0-2	0
	1	25	18.47		0
	1	49	18.60		0
	25	0	18.47	0-3	0
	25	12	18.44		0
	25	25	18.60		0
	50	0	18.51		0
256QAM	1	0	18.09	0-5	0.4
	1	25	18.22		0.4
	1	49	18.09		0.4
	25	0	18.06		0.4
	25	12	18.19		0.4
	25	25	18.11		0.4
	50	0	18.07		0.4

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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	21100	21350		
			(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	16.88	17.14	17.07	0	0
	1	50	17.13	17.37	17.45		0
	1	99	16.89	17.13	17.18		0
	50	0	17.31	17.35	17.31	0-1	0
	50	25	17.34	17.37	17.38		0
	50	50	17.33	17.33	17.28		0
	100	0	17.35	17.36	17.37		0
16QAM	1	0	17.03	17.02	16.99	0-1	0
	1	50	17.25	17.30	17.39		0
	1	99	17.03	17.02	17.15		0
	50	0	17.04	17.01	17.03	0-2	0
	50	25	17.30	17.27	17.37		0
	50	50	17.04	17.06	17.12		0
	100	0	17.00	17.07	17.00		0
64QAM	1	0	17.24	17.26	17.40	0-2	0
	1	50	17.02	17.03	17.13		0
	1	99	17.02	17.01	17.02		0
	50	0	17.24	17.28	17.41	0-3	0
	50	25	17.07	17.02	17.11		0
	50	50	17.04	17.02	17.04		0
	100	0	17.29	17.26	17.38		0
256QAM	1	0	17.01	17.06	17.14	0-5	0
	1	50	17.00	17.05	16.99		0
	1	99	17.25	17.26	17.38		0
	50	0	17.01	17.05	17.10		0
	50	25	17.04	17.03	16.99		0
	50	50	17.27	17.31	17.39		0
	100	0	17.07	17.05	17.11		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	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	17.21	17.31

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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	19.58	19.68	19.74	0	0
	1	50	19.94	20.05	20.06		0
	1	99	19.84	19.91	19.86		0
	50	0	19.97	20.07	20.01	0-1	0
	50	25	20.06	20.01	20.09		0
	50	50	20.08	20.03	20.04		0
	100	0	19.94	19.97	19.99		0
16QAM	1	0	19.68	19.77	19.83	0-1	0
	1	50	19.62	19.58	19.66		0
	1	99	19.50	19.85	19.78		0
	50	0	19.49	19.84	19.60	0-2	0
	50	25	19.73	19.92	19.62		0
	50	50	19.93	19.77	19.86		0
	100	0	19.52	19.57	19.78		0
64QAM	1	0	19.87	19.82	19.89	0-2	0
	1	50	19.98	19.52	19.60		0
	1	99	19.95	19.68	19.95		0
	50	0	19.68	19.99	19.73	0-3	0
	50	25	19.67	19.81	19.90		0
	50	50	19.55	19.86	19.61		0
	100	0	19.97	19.59	19.99		0
256QAM	1	0	19.07	18.86	18.64	0-5	0.9
	1	50	18.73	18.79	19.10		0.9
	1	99	19.09	18.94	18.95		0.9
	50	0	18.81	18.69	18.96		0.9
	50	25	19.04	18.67	18.87		0.9
	50	50	19.02	18.91	18.87		0.9
	100	0	18.65	19.08	19.10		0.9

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

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC						SCC								Power		
				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	19.46	19.91

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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	21100	21350		
			(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.03	17.10	17.11	0	0
	1	50	17.25	17.35	17.38		0
	1	99	17.12	17.21	17.14		0
	50	0	17.26	17.32	17.34	0-1	0
	50	25	17.25	17.33	17.37		0
	50	50	17.36	17.36	17.35		0
	100	0	17.29	17.35	17.36		0
16QAM	1	0	16.94	17.02	17.02	0-1	0
	1	50	17.19	17.29	17.27		0
	1	99	17.06	17.09	17.06		0
	50	0	16.95	17.07	17.03	0-2	0
	50	25	17.13	17.25	17.31		0
	50	50	17.04	17.13	17.11		0
	100	0	16.92	17.06	17.02		0
64QAM	1	0	17.16	17.28	17.31	0-2	0
	1	50	17.05	17.14	17.09		0
	1	99	16.92	17.07	17.04		0
	50	0	17.14	17.28	17.27	0-3	0
	50	25	17.04	17.13	17.05		0
	50	50	16.91	17.07	17.05		0
	100	0	17.15	17.30	17.30		0
256QAM	1	0	17.06	17.13	17.11	0-5	0
	1	50	16.92	17.06	17.01		0
	1	99	17.19	17.30	17.28		0
	50	0	17.09	17.15	17.11		0
	50	25	16.94	17.03	17.00		0
	50	50	17.19	17.26	17.30		0
	100	0	17.08	17.09	17.09		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	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	17.21	17.34

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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	21100	21350		
			(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	18.12	17.83	18.16	0	0
	1	50	18.37	18.14	18.43		0
	1	99	18.18	18.00	18.22		0
	50	0	18.36	18.34	18.44	0-1	0
	50	25	18.37	18.37	18.40		0
	50	50	18.36	18.36	18.40		0
	100	0	18.33	18.39	18.41		0
16QAM	1	0	18.07	17.75	18.08	0-1	0
	1	50	18.32	18.11	18.35		0
	1	99	18.10	17.91	18.19		0
	50	0	18.04	17.70	18.06	0-2	0
	50	25	18.34	18.12	18.36		0
	50	50	18.09	17.96	18.14		0
	100	0	18.04	17.71	18.10		0
64QAM	1	0	18.30	18.11	18.41	0-2	0
	1	50	18.07	17.92	18.19		0
	1	99	18.10	17.74	18.08		0
	50	0	18.34	18.09	18.39	0-3	0
	50	25	18.11	17.95	18.19		0
	50	50	18.06	17.69	18.07		0
	100	0	18.33	18.07	18.37		0
256QAM	1	0	18.08	17.97	18.17	0-5	0
	1	50	18.07	17.71	18.07		0
	1	99	18.34	18.06	18.39		0
	50	0	18.05	17.91	18.16		0
	50	25	18.10	17.70	18.10		0
	50	50	18.31	18.06	18.38		0
	100	0	18.06	17.93	18.18		0

Table 8-38
LTE Band 7 Measured P_{Limit} Antenna 4b 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	18.01	18.00

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LTE Band 41

Table 8-39
LTE Band 41 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	19.12	19.08	19.37	21.36	21.62	0	0
	1	50	19.39	19.21	19.52	21.57	21.79		0
	1	99	19.26	19.06	19.42	21.49	21.47		0
	50	0	19.32	19.34	19.38	21.66	21.76	0-1	0
	50	25	19.39	19.31	19.37	21.67	21.76		0
	50	50	19.41	19.32	19.43	21.75	21.78		0
	100	0	19.38	19.37	19.39	21.72	21.77		0
16QAM	1	0	19.04	19.05	19.33	21.23	21.50	0-1	0
	1	50	19.32	19.08	19.47	21.50	21.70		0
	1	99	19.23	18.94	19.36	21.42	21.40		0
	50	0	19.03	19.02	19.31	21.25	21.51	0-2	0
	50	25	19.32	19.13	19.46	21.49	21.72		0
	50	50	19.20	18.94	19.31	21.40	21.37		0
	100	0	19.03	19.05	19.34	21.23	21.55		0
64QAM	1	0	19.35	19.11	19.44	21.49	21.75	0-2	0
	1	50	19.23	18.97	19.31	21.45	21.36		0
	1	99	18.98	19.03	19.29	21.23	21.56		0
	50	0	19.35	19.07	19.46	21.48	21.70	0-3	0
	50	25	19.19	18.94	19.30	21.40	21.35		0
	50	50	19.04	19.01	19.31	21.23	21.51		0
	100	0	19.32	19.11	19.48	21.49	21.73		0
256QAM	1	0	19.22	18.94	19.31	20.21	20.19	0-5	1.2
	1	50	19.03	19.03	19.28	20.03	20.33		1.2
	1	99	19.37	19.08	19.50	20.25	20.51		1.2
	50	0	19.21	18.94	19.34	20.24	20.14		1.2
	50	25	19.04	19.02	19.33	20.06	20.36		1.2
	50	50	19.31	19.07	19.46	20.26	20.53		1.2
	100	0	19.20	18.98	19.36	20.22	20.19		1.2

Table 8-40
LTE Band 41 PC3 Measured P_{Limit} Antenna 1 Uplink Carrier Aggregation

	PCC							SCC							Power	
mbination	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	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	21.54	21.76

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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	19.65	19.70	19.92	22.86	22.91	0	0
	1	50	19.91	19.84	20.08	22.92	23.03		0
	1	99	19.80	19.66	19.97	22.84	22.99		0
	50	0	19.91	19.95	19.98	22.89	23.04	0-1	0
	50	25	19.96	19.93	19.95	22.96	23.11		0
	50	50	19.97	19.90	20.03	22.98	23.26		0
	100	0	19.94	19.98	20.01	22.99	23.00		0

Table 8-42
LTE Band 41 PC2 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 PC2	20	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	23.22	23.04

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Table 8-43
LTE Band 41 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	21.41	21.42	21.56	21.37	21.53	0	0
	1	50	21.62	21.70	21.77	21.62	21.85		0
	1	99	21.43	21.47	21.54	21.34	21.64		0
	50	0	21.66	21.65	21.75	21.55	21.69	0-1	0
	50	25	21.69	21.76	21.78	21.61	21.83		0
	50	50	21.68	21.74	21.79	21.56	21.70		0
	100	0	21.73	21.75	21.76	21.60	21.70		0
16QAM	1	0	21.56	21.67	21.48	21.27	21.45	0-1	0
	1	50	21.75	21.45	21.71	21.56	21.78		0
	1	99	21.39	21.78	21.50	21.25	21.51		0
	50	0	21.40	21.80	21.54	21.23	21.47	0-2	0
	50	25	21.55	21.79	21.70	21.60	21.80		0
	50	50	21.32	21.43	21.48	21.20	21.56		0
	100	0	21.49	21.69	21.51	21.24	21.50		0
64QAM	1	0	21.45	21.42	21.72	21.56	21.80	0-2	0
	1	50	21.74	21.59	21.50	21.23	21.54		0
	1	99	21.71	21.51	21.48	21.27	21.50		0
	50	0	21.32	21.54	21.69	21.56	21.81	0-3	0
	50	25	21.76	21.68	21.46	21.23	21.51		0
	50	50	21.75	21.50	21.53	21.24	21.50		0
	100	0	21.42	21.48	21.70	21.55	21.76		0
256QAM	1	0	20.28	20.11	20.07	19.80	20.16	0-5	1.4
	1	50	20.24	20.26	20.14	19.87	20.07		1.4
	1	99	19.99	20.02	20.31	20.14	20.36		1.4
	50	0	20.06	20.39	20.09	19.84	20.16		1.4
	50	25	19.98	20.13	20.08	19.88	20.07		1.4
	50	50	20.24	20.24	20.33	20.14	20.40		1.4
	100	0	19.96	20.36	20.08	19.83	20.14		1.4

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	41490	2680.0	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	21.59	21.69

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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	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.82	22.84	23.18	0	0
	1	50	23.02	23.07	23.43		0
	1	99	22.78	22.97	23.29		0
	50	0	23.08	23.12	23.20	0-1	0
	50	25	23.11	23.16	23.19		0
	50	50	23.13	23.27	23.17		0
	100	0	23.15	23.19	23.21		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	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	23.14	23.20

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Table 8-47
LTE Band 41 PC3 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	18.91	18.74	18.83	21.32	21.30	0	0
	1	50	19.13	18.96	18.98	21.44	21.50		0
	1	99	19.08	18.78	18.90	21.41	21.31		0
	50	0	19.07	19.10	19.01	21.53	21.49	0-1	0
	50	25	19.08	19.13	19.02	21.50	21.51		0
	50	50	19.14	19.12	19.00	21.49	21.55		0
	100	0	19.15	19.18	19.04	21.43	21.44		0
16QAM	1	0	18.78	18.65	18.73	21.19	21.19	0-1	0
	1	50	19.10	18.83	18.92	21.32	21.44		0
	1	99	19.00	18.70	18.83	21.35	21.19		0
	50	0	18.78	18.65	18.77	21.21	21.19	0-2	0
	50	25	19.09	18.85	18.96	21.32	21.39		0
	50	50	19.04	18.65	18.84	21.31	21.17		0
	100	0	18.82	18.69	18.78	21.24	21.21		0
64QAM	1	0	19.08	18.87	18.95	21.33	21.44	0-2	0
	1	50	19.02	18.71	18.82	21.35	21.18		0
	1	99	18.80	18.63	18.76	21.19	21.17		0
	50	0	19.08	18.84	18.96	21.38	21.39	0-3	0
	50	25	19.01	18.70	18.88	21.35	21.17		0
	50	50	18.82	18.67	18.79	21.18	21.21		0
	100	0	19.05	18.82	18.93	21.32	21.39		0
256QAM	1	0	19.03	18.68	18.83	20.16	19.98	0-5	1.2
	1	50	18.84	18.64	18.79	20.02	19.98		1.2
	1	99	19.09	18.82	18.91	20.13	20.25		1.2
	50	0	19.01	18.71	18.82	20.13	20.01		1.2
	50	25	18.80	18.67	18.76	20.03	20.01		1.2
	50	50	19.09	18.88	18.96	20.14	20.20		1.2
	100	0	18.99	18.71	18.82	20.13	19.99		1.2

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	41490	2680.0	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	21.61	21.49

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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	20.67	20.56	20.73	22.75	22.56	0	0
	1	50	20.80	20.68	20.85	23.07	22.76		0
	1	99	20.48	20.49	20.64	22.87	22.58		0
	50	0	20.81	20.76	20.76	22.80	23.10	0-1	0
	50	25	20.82	20.71	20.83	22.83	22.85		0
	50	50	20.73	20.70	20.77	22.93	22.84		0
	100	0	20.80	20.75	20.81	22.87	22.88		0

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

Combination	PCC Band	PCC Bandwidth [MHz]	PCC					SCC					Power			
			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	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	22.21	23.10

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Table 8-51
LTE Band 41 PC3 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	20.84	20.88	21.11	20.78	21.02	0	0
	1	50	21.03	21.09	21.22	20.94	21.12		0
	1	99	20.82	20.91	21.08	20.81	20.88		0
	50	0	21.04	21.11	21.07	20.91	21.14	0-1	0
	50	25	21.06	21.14	21.17	20.98	21.10		0
	50	50	21.04	21.13	21.10	21.06	21.09		0
	100	0	21.09	21.14	21.15	21.00	21.11		0
16QAM	1	0	20.80	20.85	20.99	20.72	20.93	0-1	0
	1	50	20.95	21.01	21.13	20.88	21.04		0
	1	99	20.72	20.83	20.97	20.76	20.80		0
	50	0	20.82	20.82	21.05	20.69	20.97	0-2	0
	50	25	20.98	21.07	21.13	20.86	21.07		0
	50	50	20.70	20.81	20.98	20.71	20.82		0
	100	0	20.77	20.84	21.04	20.69	20.92		0
64QAM	1	0	20.99	21.04	21.10	20.82	21.05	0-2	0
	1	50	20.72	20.79	20.95	20.77	20.81		0
	1	99	20.78	20.82	21.03	20.69	20.93		0
	50	0	20.95	21.05	21.13	20.85	21.06	0-3	0
	50	25	20.73	20.81	21.00	20.72	20.78		0
	50	50	20.80	20.82	20.99	20.69	20.95		0
	100	0	20.97	21.06	21.14	20.84	21.03		0
256QAM	1	0	20.14	20.21	20.38	20.14	20.21	0-5	0.6
	1	50	20.22	20.24	20.40	20.17	20.35		0.6
	1	99	20.37	20.47	20.54	20.26	20.46		0.6
	50	0	20.14	20.20	20.38	20.15	20.24		0.6
	50	25	20.17	20.20	20.41	20.19	20.38		0.6
	50	50	20.37	20.45	20.52	20.23	20.47		0.6
	100	0	20.10	20.19	20.34	20.17	20.20		0.6

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	0	LTE B41	20	39987	2529.7	QPSK	1	99	20.50	20.88

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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	22.20	22.38	22.36	22.32	22.31	0	0
	1	50	22.46	22.63	22.57	22.62	22.59		0
	1	99	22.22	22.34	22.40	22.50	22.29		0
	50	0	22.49	22.59	22.55	22.41	22.57	0-1	0
	50	25	22.50	22.65	22.59	22.45	22.54		0
	50	50	22.48	22.60	22.58	22.54	22.53		0
	100	0	22.51	22.61	22.60	22.52	22.59		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	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	21.90	22.38

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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	17.24	17.29	17.35	17.21	0	0
	1	50	17.51	17.65	17.45	17.24		0
	1	99	17.29	17.20	17.21	17.20		0
	50	0	17.60	17.63	17.54	17.32	0-1	0
	50	25	17.63	17.68	17.52	17.25		0
	50	50	17.62	17.64	17.43	17.20		0
	100	0	17.58	17.64	17.55	17.27		0
16QAM	1	0	17.46	17.40	17.36	17.46	0-1	0
	1	50	17.58	17.55	17.58	17.61		0
	1	99	17.49	17.43	17.47	17.47		0
	50	0	17.47	17.43	17.42	17.44	0-2	0
	50	25	17.58	17.57	17.55	17.56		0
	50	50	17.53	17.49	17.49	17.46		0
	100	0	17.45	17.40	17.37	17.48		0
64QAM	1	0	17.58	17.59	17.56	17.61	0-2	0
	1	50	17.51	17.47	17.46	17.46		0
	1	99	17.48	17.43	17.41	17.48		0
	50	0	17.47	17.47	17.44	17.46	0-3	0.1
	50	25	17.38	17.34	17.39	17.31		0.1
	50	50	17.32	17.27	17.30	17.36		0.1
	100	0	17.47	17.49	17.48	17.50		0.1
256QAM	1	0	15.38	15.33	15.42	15.31	0-5	2.1
	1	50	15.33	15.32	15.28	15.33		2.1
	1	99	15.45	15.49	15.47	15.49		2.1
	50	0	15.38	15.38	15.40	15.33		2.1
	50	25	15.35	15.31	15.26	15.35		2.1
	50	50	15.45	15.47	15.47	15.51		2.1
	100	0	15.40	15.33	15.41	15.36		2.1

Table 8-56
LTE Band 48 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_48C	LTE B48	20	55773	3603.3	QPSK	1	99	LTE B48	20	55971	3623.1	QPSK	1	0	17.40	17.20

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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	21.97	21.81	21.73	21.99	0	0
	1	50	22.27	22.04	21.97	22.22		0
	1	99	22.09	21.85	21.77	21.97		0
	50	0	21.80	21.64	21.64	21.77	0-1	0.7
	50	25	21.95	21.84	21.67	21.86		0.7
	50	50	21.88	21.65	21.65	21.81		0.7
	100	0	21.94	21.68	21.70	21.85		0.7
16QAM	1	0	21.48	21.57	21.43	21.40	0-1	0.7
	1	50	21.48	21.59	21.36	21.64		0.7
	1	99	21.34	21.38	21.36	21.60		0.7
	50	0	20.33	20.47	20.47	20.64	0-2	1.7
	50	25	20.40	20.39	20.51	20.57		1.7
	50	50	20.53	20.42	20.56	20.53		1.7
	100	0	20.70	20.37	20.53	20.70		1.7
64QAM	1	0	20.56	20.52	20.61	20.45	0-2	1.7
	1	50	20.55	20.43	20.63	20.39		1.7
	1	99	20.64	20.57	20.38	20.38		1.7
	50	0	19.59	19.69	19.47	19.64	0-3	2.7
	50	25	19.43	19.36	19.31	19.51		2.7
	50	50	19.87	19.79	19.69	20.07		2.7
	100	0	20.03	19.74	19.32	19.73		2.7
256QAM	1	0	18.00	17.85	17.40	18.06	0-5	4.7
	1	50	17.96	17.71	17.40	17.87		4.7
	1	99	18.05	17.84	17.32	17.82		4.7
	50	0	17.85	17.87	17.34	18.10		4.7
	50	25	18.07	17.80	17.30	17.94		4.7
	50	50	17.90	17.97	17.47	17.87		4.7
	100	0	17.72	17.89	17.28	17.71		4.7

Table 8-58
LTE Band 48 Measured P_{Limit} Antenna 2b Uplink Carrier Aggregation

Combination	PCC Band	PCC						SCC						Power		
		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 Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55773	3603.3	QPSK	1	99	LTE B48	20	55971	3623.1	QPSK	1	0	22.52	22.07

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Table 8-59
LTE Band 48 Measured P_{Limit} 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	18.05	17.88	17.92	17.87	0	0
	1	50	18.33	18.11	18.17	17.94		0
	1	99	17.91	17.96	17.99	17.85		0
	50	0	18.26	18.16	18.14	18.14	0-1	0
	50	25	18.31	18.21	18.17	18.22		0
	50	50	18.15	18.16	18.00	18.18		0
	100	0	18.30	18.22	18.27	18.25		0
16QAM	1	0	17.98	17.84	17.82	17.76	0-1	0
	1	50	18.24	18.02	18.06	17.74		0
	1	99	17.83	17.89	17.90	17.74		0
	50	0	17.58	17.40	17.45	17.37	0-2	0.4
	50	25	17.80	17.62	17.69	17.33		0.4
	50	50	17.42	17.47	17.52	17.36		0.4
	100	0	17.56	17.45	17.43	17.35		0.4
64QAM	1	0	17.83	17.63	17.69	17.34	0-2	0.4
	1	50	17.41	17.48	17.55	17.31		0.4
	1	99	17.62	17.44	17.44	17.32		0.4
	50	0	16.83	16.66	16.67	16.33	0-3	1.4
	50	25	16.42	16.50	16.55	16.35		1.4
	50	50	16.58	16.41	16.44	16.35		1.4
	100	0	16.80	16.64	16.66	16.33		1.4
256QAM	1	0	14.47	14.53	14.55	14.32	0-5	3.4
	1	50	14.58	14.41	14.47	14.31		3.4
	1	99	14.83	14.65	14.71	14.32		3.4
	50	0	14.44	14.52	14.56	14.36		3.4
	50	25	14.56	14.39	14.43	14.31		3.4
	50	50	14.85	14.66	14.65	14.36		3.4
	100	0	14.46	14.52	14.52	14.34		3.4

Table 8-60
LTE Band 48 Measured P_{Limit} 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	56640	3690.0	QPSK	1	0	LTE B48	20	56442	3670.2	QPSK	1	99	18.21	17.87

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Table 8-61
LTE Band 48 Measured P_{Limit} 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	17.27	17.28	17.38	17.27	0	0
	1	50	17.53	17.52	17.60	17.45		0
	1	99	17.35	17.39	17.42	17.17		0
	50	0	17.54	17.56	17.68	17.54	0-1	0
	50	25	17.64	17.61	17.90	17.55		0
	50	50	17.63	17.59	17.67	17.49		0
	100	0	17.52	17.50	17.55	17.56		0
16QAM	1	0	17.24	17.22	17.26	17.07	0-1	0
	1	50	17.42	17.44	17.51	17.05		0
	1	99	17.24	17.29	17.34	17.05		0
	50	0	17.22	17.20	17.32	17.06	0-2	0
	50	25	17.43	17.48	17.50	17.07		0
	50	50	17.30	17.26	17.29	17.10		0
	100	0	17.18	17.20	17.28	17.07		0
64QAM	1	0	17.44	17.45	17.47	17.11	0-2	0
	1	50	17.25	17.30	17.34	17.06		0
	1	99	17.20	17.20	17.27	17.11		0
	50	0	17.10	17.14	17.18	16.78	0-3	0.3
	50	25	17.00	16.96	17.01	16.76		0.3
	50	50	16.92	16.89	17.00	16.78		0.3
	100	0	17.15	17.14	17.18	16.79		0.3
256QAM	1	0	14.96	14.96	15.00	14.79	0-5	2.3
	1	50	14.94	14.90	14.99	14.80		2.3
	1	99	15.13	15.13	15.21	14.75		2.3
	50	0	14.98	15.00	15.02	14.77		2.3
	50	25	14.90	14.92	14.98	14.78		2.3
	50	50	15.12	15.15	15.19	14.77		2.3
	100	0	14.96	14.98	15.00	14.81		2.3

Table 8-62
LTE Band 48 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_48C	LTE B48	20	55773	3603.3	QPSK	1	99	LTE B48	20	55971	3623.1	QPSK	1	0	16.98	17.39



Figure 8-2
Power Measurement Setup

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8.3 NR Plimit 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.

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.

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8.3.1

NR Band 71

Table 8-63
NR Band n71 Measured P_{Max} 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	23.35	0	0.0
	1	53	23.46		0.0
	1	104	23.47		0.0
	50	0	23.09	0-1	1.0
	50	28	23.54	0	0.0
	50	56	23.07	0-1	1.0
	100	0	23.34		1.0
DFT-s-OFDM 16QAM	1	1	23.23	0-1	1.0
CP-OFDM QPSK	1	1	22.80	0-1.5	1.5

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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	23.63	0	0.0
	1	53	23.77		0.0
	1	104	23.67		0.0
	50	0	23.78	0-1	0.0
	50	28	23.75	0	0.0
	50	56	23.73	0-1	0.0
	100	0	23.74		0.0
DFT-s-OFDM 16QAM	1	1	23.39	0-1	0.0
CP-OFDM QPSK	1	1	23.50	0-1.5	0.3

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8.3.2

NR Band n12

Table 8-65

NR Band n12 Measured P_{Max} 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	24.10	0	0.0
	1	40	24.18		0.0
	1	77	24.12		0.0
	36	0	23.68	0-1	1.0
	36	22	24.19	0	0.0
	36	43	23.66	0-1	1.0
	75	0	23.60		1.0
DFT-s-OFDM 16QAM	1	1	23.60	0-1	1.0
CP-OFDM QPSK	1	1	23.11	0-1.5	1.5

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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	23.83	0	0.0
	1	40	24.07		0.0
	1	77	23.82		0.0
	36	0	23.69	0-1	0.3
	36	22	23.96	0	0.0
	36	43	23.88	0-1	0.3
	75	0	23.94		0.3
DFT-s-OFDM 16QAM	1	1	23.71	0-1	0.3
CP-OFDM QPSK	1	1	24.00	0-1.5	0.8

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8.3.3

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	23.91	0	0.0
	1	26	23.97		0.0
	1	50	23.93		0.0
	25	0	23.69	0-1	0.6
	25	14	24.00	0	0.0
	25	27	23.65	0-1	0.6
	50	0	23.59		0.6
DFT-s-OFDM 16QAM	1	1	23.58	0-1	0.6
CP-OFDM QPSK	1	1	22.70	0-1.5	1.1

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Table 8-68

NR Band n14 Measured P_{Limit} Antenna 3 - 15 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	22.73	0	0.0
	1	26	22.62		0.0
	1	50	22.93		0.0
	25	0	22.91	0-1	0.0
	25	14	22.82	0	0.0
	25	27	22.92	0-1	0.0
	50	0	22.81		0.0
DFT-s-OFDM 16QAM	1	1	23.05	0-1	0.0
CP-OFDM QPSK	1	1	23.22	0-1.5	0.0

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8.3.4

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	22.99	0	0.0
	1	53	22.91		0.0
	1	104	22.82		0.0
	50	0	22.85	0-1	0.2
	50	28	22.92	0	0.0
	50	56	22.79	0-1	0.2
	100	0	22.90		0.2
DFT-s-OFDM 16QAM	1	1	22.78	0-1	0.2
CP-OFDM QPSK	1	1	22.86	0-1.5	0.7

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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	23.53	0	0.0
	1	53	23.48		0.0
	1	104	23.59		0.0
	50	0	23.50	0-1	0.0
	50	28	23.51	0	0.0
	50	56	23.67	0-1	0.0
	100	0	23.57		0.0
DFT-s-OFDM 16QAM	1	1	23.44	0-1	0.0
CP-OFDM QPSK	1	1	23.66	0-1.5	0.0

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8.3.5

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	23.26	0	0.0
	1	53	23.24		0.0
	1	104	23.20		0.0
	50	0	23.30	0-1	0.2
	50	28	23.44	0	0.0
	50	56	23.24	0-1	0.2
	100	0	23.25		0.2
DFT-s-OFDM 16QAM	1	1	23.05	0-1	0.2
CP-OFDM QPSK	1	1	23.20	0-1.5	0.7

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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	23.59	0	0.0
	1	53	23.52		0.0
	1	104	23.45		0.0
	50	0	23.55	0-1	0.0
	50	28	23.57	0	0.0
	50	56	23.56	0-1	0.0
	100	0	23.52		0.0
DFT-s-OFDM 16QAM	1	1	23.32	0-1	0.0
CP-OFDM QPSK	1	1	23.55	0-1.5	0.0

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8.3.6

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	19.27	0	0.0
	1	40	19.03		0.0
	1	77	19.23		0.0
	36	0	19.21	0-1	0.0
	36	22	19.19	0	0.0
	36	43	19.22	0-1	0.0
	75	0	19.11		0.0
DFT-s-OFDM 16QAM	1	1	19.00	0-1	0.0
CP-OFDM QPSK	1	1	19.36	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	19.72	0	0.0
	1	40	19.71		0.0
	1	77	19.69		0.0
	36	0	19.85	0-1	0.0
	36	22	19.80	0	0.0
	36	43	19.84	0-1	0.0
	75	0	19.70		0.0
DFT-s-OFDM 16QAM	1	1	19.50	0-1	0.0
CP-OFDM QPSK	1	1	19.92	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	17.37	0	0.0
	1	40	17.33		0.0
	1	77	17.21		0.0
	36	0	17.40	0-1	0.0
	36	22	17.34	0	0.0
	36	43	17.32	0-1	0.0
	75	0	17.34		0.0
DFT-s-OFDM 16QAM	1	1	17.20	0-1	0.0
CP-OFDM QPSK	1	1	17.45	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	17.91	0	0.0
	1	40	17.88		0.0
	1	77	17.93		0.0
	36	0	17.94	0-1	0.0
	36	22	17.97	0	0.0
	36	43	17.94	0-1	0.0
	75	0	17.90		0.0
DFT-s-OFDM 16QAM	1	1	17.80	0-1	0.0
CP-OFDM QPSK	1	1	18.03	0-1.5	0.0

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8.3.7

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	19.29	0	0.0
	1	108	18.88		0.0
	1	214	18.97		0.0
	108	0	19.05	0-1	0.0
	108	54	18.98	0	0.0
	108	108	19.01	0-1	0.0
	216	0	18.96		0.0
DFT-s-OFDM 16QAM	1	1	19.01	0-1	0.0
CP-OFDM QPSK	1	1	19.24	0-1.5	0.0

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Table 8-78

NR Band n66 Measured P_{Limit} Antenna 2b - 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	19.84	0	0.0
	1	108	19.74		0.0
	1	214	19.80		0.0
	108	0	19.90	0-1	0.0
	108	54	19.84	0	0.0
	108	108	19.93	0-1	0.0
	216	0	19.72		0.0
DFT-s-OFDM 16QAM	1	1	19.57	0-1	0.0
CP-OFDM QPSK	1	1	19.92	0-1.5	0.0

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Table 8-79

NR Band n66 Measured P_{Limit} Antenna 3 - 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	17.43	0	0.0
	1	108	17.47		0.0
	1	214	17.37		0.0
	108	0	17.39	0-1	0.0
	108	54	17.43	0	0.0
	108	108	17.38	0-1	0.0
	216	0	17.40		0.0
DFT-s-OFDM 16QAM	1	1	17.15	0-1	0.0
CP-OFDM QPSK	1	1	17.34	0-1.5	0.0

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Table 8-80

NR Band n66 Measured P_{Limit} Antenna 4b - 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	17.98	0	0.0
	1	108	17.89		0.0
	1	214	17.87		0.0
	108	0	17.99	0-1	0.0
	108	54	17.94	0	0.0
	108	108	18.01	0-1	0.0
	216	0	17.96		0.0
DFT-s-OFDM 16QAM	1	1	17.79	0-1	0.0
CP-OFDM QPSK	1	1	17.93	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	18.15	0	0.0
	1	108	18.09		0.0
	1	214	18.05		0.0
	108	0	18.17	0-1	0.0
	108	54	18.09	0	0.0
	108	108	18.11	0-1	0.0
	216	0	18.12		0.0
DFT-s-OFDM 16QAM	1	1	18.00	0-1	0.0
CP-OFDM QPSK	1	1	18.19	0-1.5	0.0

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Table 8-82

NR Band n25 Measured P_{Limit} Antenna 2b - 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	18.67	0	0.0
	1	108	18.53		0.0
	1	214	18.72		0.0
	108	0	18.74	0-1	0.0
	108	54	18.68	0	0.0
	108	108	18.71	0-1	0.0
	216	0	18.69		0.0
DFT-s-OFDM 16QAM	1	1	18.59	0-1	0.0
CP-OFDM QPSK	1	1	18.73	0-1.5	0.0

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Table 8-83

NR Band n25 Measured P_{Limit} Antenna 3 - 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	16.83	0	0.0
	1	108	16.90		0.0
	1	214	16.67		0.0
	108	0	16.77	0-1	0.0
	108	54	16.78	0	0.0
	108	108	16.65	0-1	0.0
	216	0	16.75		0.0
DFT-s-OFDM 16QAM	1	1	16.50	0-1	0.0
CP-OFDM QPSK	1	1	16.92	0-1.5	0.0

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Table 8-84

NR Band n25 Measured P_{Limit} Antenna 4b - 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	19.02	0	0.0
	1	108	18.88		0.0
	1	214	18.80		0.0
	108	0	18.99	0-1	0.0
	108	54	18.95	0	0.0
	108	108	18.93	0-1	0.0
	216	0	18.98		0.0
DFT-s-OFDM 16QAM	1	1	18.87	0-1	0.0
CP-OFDM QPSK	1	1	19.05	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	19.46	0	0.0
	1	26	19.30		0.0
	1	50	19.28		0.0
	25	0	19.20	0-1	0.0
	25	14	19.40	0	0.0
	25	27	19.29	0-1	0.0
	50	0	19.39		0.0
DFT-s-OFDM 16QAM	1	1	19.19	0-1	0.0
CP-OFDM QPSK	1	1	19.43	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	20.36	0	0.0
	1	26	20.39		0.0
	1	50	20.38		0.0
	25	0	20.41	0-1	0.0
	25	14	20.32	0	0.0
	25	27	20.38	0-1	0.0
	50	0	20.38		0.0
DFT-s-OFDM 16QAM	1	1	20.41	0-1	0.0
CP-OFDM QPSK	1	1	20.49	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	16.86	0	0.0
	1	26	16.76		0.0
	1	50	16.85		0.0
	25	0	16.84	0-1	0.0
	25	14	16.72	0	0.0
	25	27	16.69	0-1	0.0
	50	0	16.83		0.0
DFT-s-OFDM 16QAM	1	1	16.69	0-1	0.0
CP-OFDM QPSK	1	1	16.74	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	18.73	0	0.0
	1	26	18.64		0.0
	1	50	18.57		0.0
	25	0	18.68	0-1	0.0
	25	14	18.62	0	0.0
	25	27	18.70	0-1	0.0
	50	0	18.65		0.0
DFT-s-OFDM 16QAM	1	1	18.47	0-1	0.0
CP-OFDM QPSK	1	1	18.66	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	17.80	0	0.0
	1	108	17.86		0.0
	1	214	17.82		0.0
	108	0	17.86	0-1	0.0
	108	54	17.88	0	0.0
	108	108	17.82	0-1	0.0
	216	0	17.84		0.0
DFT-s-OFDM 16QAM	1	1	17.79	0-1	0.0
CP-OFDM QPSK	1	1	17.93	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	19.85	0	0.0
	1	108	19.98		0.0
	1	214	19.71		0.0
	108	0	20.07	0-1	0.0
	108	54	20.04	0	0.0
	108	108	20.01	0-1	0.0
	216	0	19.96		0.0
DFT-s-OFDM 16QAM	1	1	19.77	0-1	0.0
CP-OFDM QPSK	1	1	19.90	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	17.40	0	0.0
	1	108	17.44		0.0
	1	214	17.41		0.0
	108	0	17.46	0-1	0.0
	108	54	17.43	0	0.0
	108	108	17.50	0-1	0.0
	216	0	17.27		0.0
DFT-s-OFDM 16QAM	1	1	17.17	0-1	0.0
CP-OFDM QPSK	1	1	17.74	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	18.45	0	0.0
	1	108	18.38		0.0
	1	214	18.20		0.0
	108	0	18.35	0-1	0.0
	108	54	18.38	0	0.0
	108	108	18.31	0-1	0.0
	216	0	18.34		0.0
DFT-s-OFDM 16QAM	1	1	18.10	0-1	0.0
CP-OFDM QPSK	1	1	18.38	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	17.11	19.26	0	0.0
	1	137	17.55	19.37		0.0
	1	271	17.27	19.34		0.0
	135	0	17.43	19.36	0-1	0.0
	135	69	17.54	19.42	0	0.0
	135	138	17.58	19.25	0-1	0.0
	270	0	17.38	19.31		0.0
DFT-s-OFDM 16QAM	1	1	16.97	18.93	0-1	0.0
CP-OFDM QPSK	1	1	17.20	19.32	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	19.70	19.42	0	0.0
	1	137	19.99	19.51		0.0
	1	271	19.60	19.22		0.0
	135	0	19.91	19.53	0-1	0.0
	135	69	19.81	19.56	0	0.0
	135	138	20.08	19.42	0-1	0.0
	270	0	19.90	19.50		0.0
DFT-s-OFDM 16QAM	1	1	19.50	19.36	0-1	0.0
CP-OFDM QPSK	1	1	19.82	19.54	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	16.57	18.81	0	0.0
	1	137	17.05	19.13		0.0
	1	271	16.71	18.93		0.0
	135	0	16.95	19.14	0-1	0.0
	135	69	16.94	19.20	0	0.0
	135	138	17.15	19.19	0-1	0.0
	270	0	17.00	19.12		0.0
DFT-s-OFDM 16QAM	1	1	16.51	18.60	0-1	0.0
CP-OFDM QPSK	1	1	16.76	18.80	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	18.48	18.45	0	0.0
	1	137	18.72	18.74		0.0
	1	271	18.50	18.51		0.0
	135	0	18.75	18.68	0-1	0.0
	135	69	18.76	18.76	0	0.0
	135	138	18.71	18.78	0-1	0.0
	270	0	18.70	18.71		0.0
DFT-s-OFDM 16QAM	1	1	18.31	18.18	0-1	0.0
CP-OFDM QPSK	1	1	18.61	18.70	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	15.32	15.77	15.34	0	0.0
	1	53	15.33	15.62	15.44		0.0
	1	104	15.52	15.47	15.27		0.0
	50	0	15.50	15.71	15.54	0-1	0.0
	50	28	15.46	15.67	15.38	0	0.0
	50	56	15.69	15.48	15.35	0-1	0.0
	100	0	15.50	15.70	15.51		0.0
DFT-s-OFDM 16QAM	1	1	15.21	15.34	15.28	0-1	0.0
CP-OFDM QPSK	1	1	15.52	15.95	15.62	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	20.31	20.42	20.25	0	0.0
	1	53	20.37	20.30	20.32		0.0
	1	104	20.22	20.41	20.30		0.0
	50	0	20.34	20.53	20.23	0-1	0.0
	50	28	20.41	20.51	20.33	0	0.0
	50	56	20.52	20.52	20.37	0-1	0.0
	100	0	20.29	20.32	20.24		0.0
DFT-s-OFDM 16QAM	1	1	20.72	20.69	20.56	0-1	0.0
CP-OFDM QPSK	1	1	20.74	20.77	20.69	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	15.39	15.47	15.15	0	0.0
	1	53	15.37	15.30	15.13		0.0
	1	104	15.30	15.23	15.11		0.0
	50	0	15.47	15.51	15.19	0-1	0.0
	50	28	15.42	15.38	15.15	0	0.0
	50	56	15.45	15.36	15.13	0-1	0.0
	100	0	15.44	15.46	15.14		0.0
DFT-s-OFDM 16QAM	1	1	15.14	15.22	15.10	0-1	0.0
CP-OFDM QPSK	1	1	15.24	15.45	15.20	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	15.21	15.06	15.14	0	0.0
	1	53	15.10	15.05	15.03		0.0
	1	104	15.18	15.03	15.01		0.0
	50	0	15.24	15.12	15.07	0-1	0.0
	50	28	15.16	15.08	15.00	0	0.0
	50	56	15.21	15.07	15.06	0-1	0.0
	100	0	15.19	14.99	15.02		0.0
DFT-s-OFDM 16QAM	1	1	14.87	14.71	14.78	0-1	0.0
CP-OFDM QPSK	1	1	15.24	15.08	14.99	0-1.5	0.0

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NR Band n77

Table 8-101

NR Band n77 C-Band 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	20.30	20.30	0	0.0
	1	137	20.35	20.37		0.0
	1	271	20.25	20.34		0.0
	135	0	20.23	20.42	0-1	0.0
	135	69	20.38	20.33	0	0.0
	135	138	20.30	20.31	0-1	0.0
	270	0	20.29	20.35		0.0
DFT-s-OFDM 16QAM	1	1	20.28	20.25	0-1	0.0
CP-OFDM QPSK	1	1	20.48	20.44	0-1.5	0.0

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Table 8-102

NR Band n77 C-Band 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	21.65	21.39	0	0.0
	1	137	21.97	21.90		0.0
	1	271	21.70	21.43		0.0
	135	0	22.27	21.62	0-1	0.0
	135	69	22.17	21.85	0	0.0
	135	138	22.12	21.72	0-1	0.0
	270	0	21.96	21.83		0.0
DFT-s-OFDM 16QAM	1	1	21.98	21.25	0-1	0.0
CP-OFDM QPSK	1	1	22.15	21.56	0-1.5	0.0

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Table 8-103

NR Band n77 C-Band 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	18.04	19.27	0	0.0
	1	137	18.17	19.47		0.0
	1	271	18.00	19.22		0.0
	135	0	18.25	19.45	0-1	0.0
	135	69	18.20	19.39	0	0.0
	135	138	18.15	19.50	0-1	0.0
	270	0	18.05	19.45		0.0
DFT-s-OFDM 16QAM	1	1	18.12	19.15	0-1	0.0
CP-OFDM QPSK	1	1	18.50	19.35	0-1.5	0.0

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Table 8-104

NR Band n77 C-Band Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	17.25	18.32	0	0.0
	1	137	17.75	18.46		0.0
	1	271	17.38	18.30		0.0
	135	0	17.81	18.49	0-1	0.0
	135	69	17.85	18.42	0	0.0
	135	138	17.71	18.40	0-1	0.0
	270	0	17.65	18.44		0.0
DFT-s-OFDM 16QAM	1	1	17.22	18.38	0-1	0.0
CP-OFDM QPSK	1	1	17.70	18.57	0-1.5	0.0

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Table 8-105

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	16.89	0	0.0
	1	137	17.07		0.0
	1	271	16.87		0.0
	135	0	17.11	0-1	0.0
	135	69	17.08	0	0.0
	135	138	17.06	0-1	0.0
	270	0	17.04		0.0
DFT-s-OFDM 16QAM	1	1	16.70	0-1	0.0
CP-OFDM QPSK	1	1	17.00	0-1.5	0.0

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Table 8-106

NR Band n77 DoD Measured P_{Limit} Antenna 2b - 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	19.18	0	0.0
	1	137	19.27		0.0
	1	271	19.09		0.0
	135	0	19.48	0-1	0.0
	135	69	19.40	0	0.0
	135	138	19.27	0-1	0.0
	270	0	19.26		0.0
DFT-s-OFDM 16QAM	1	1	19.34	0-1	0.0
CP-OFDM QPSK	1	1	19.45	0-1.5	0.0

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Table 8-107

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	17.45	0	0.0
	1	137	17.34		0.0
	1	271	17.22		0.0
	135	0	17.44	0-1	0.0
	135	69	17.49	0	0.0
	135	138	17.38	0-1	0.0
	270	0	17.43		0.0
DFT-s-OFDM 16QAM	1	1	17.12	0-1	0.0
CP-OFDM QPSK	1	1	17.39	0-1.5	0.0

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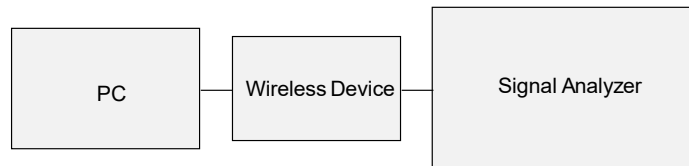
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Table 8-108

NR Band n77 DoD Measured P_{Limit} Antenna 4b - 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	15.50	0	0.0
	1	137	15.85		0.0
	1	271	15.60		0.0
	135	0	15.97	0-1	0.0
	135	69	15.83	0	0.0
	135	138	15.77	0-1	0.0
	270	0	15.72		0.0
DFT-s-OFDM 16QAM	1	1	15.43	0-1	0.0
CP-OFDM QPSK	1	1	15.61	0-1.5	0.0

**Figure 8-3
Power Measurement Setup**

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8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-141
2.4 GHz WLAN Maximum Average RF Power – Antenna 2a

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	19.05
2437	6	19.10
2462	11	19.09
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.41
2437	6	19.02
2462	11	15.33
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.34
2437	6	19.11
2462	11	15.35
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	14.29
2437	6	19.08
2462	11	15.30

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Table 8-142
2.4 GHz WLAN Maximum Average RF Power – Antenna 4a

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	18.01
2437	6	18.25
2462	11	18.03
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	13.93
2437	6	18.30
2462	11	15.14
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	13.94
2437	6	18.28
2462	11	15.20
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	13.16
2437	6	18.25
2462	11	13.61

8.5 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-143
2.4 GHz WLAN Reduced Average RF Power – Antenna 2a

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.84
2437	6	16.57
2462	11	16.52

Table 8-144
2.4 GHz WLAN Reduced Average RF Power – Antenna 4a

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.85
2437	6	15.69
2462	11	15.92

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8.6 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-145
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	13.83
	5230	46	17.53
UNII-2A	5270	54	17.35
	5310	62	14.73
5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.20
	5610	122	16.65
	5690	138	16.52
UNII-3	5775	155	17.26
5GHz WIFI (40MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.90
	5230	46	17.22
UNII-2A	5270	54	17.37
	5310	62	14.09
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.79
	5610	122	16.42
	5690	138	16.56
UNII-3	5775	155	16.58

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Table 8-146
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	14.27
	5230	46	17.11
UNII-2A	5270	54	16.80
	5310	62	14.87
5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.19
	5610	122	16.43
	5690	138	16.93
UNII-3	5775	155	17.72
5GHz WIFI (40MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.37
	5230	46	16.94
UNII-2A	5270	54	16.62
	5310	62	15.43
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.52
	5610	122	16.20
	5690	138	16.42
UNII-3	5775	155	17.45

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Table 8-147
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	14.09
	5230	46	17.65
UNII-2A	5270	54	17.54
	5310	62	14.96
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.57
	5610	122	17.68
	5690	138	17.49
UNII-3	5775	155	17.27
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.21
	5230	46	17.52
UNII-2A	5270	54	17.31
	5310	62	14.07
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.44
	5610	122	17.59
	5690	138	17.40
UNII-3	5775	155	16.99

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8.7 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-148
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	13.97
	5230	46	14.12
UNII-2A	5270	54	13.73
	5310	62	13.66
5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.45
	5610	122	13.57
	5690	138	13.21
UNII-3	5775	155	13.72

Table 8-149
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	13.90
	5230	46	14.05
UNII-2A	5270	54	13.47
	5310	62	13.41
5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	11.16
	5610	122	13.16
	5690	138	13.43
UNII-3	5775	155	14.38

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8.8 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-150

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	14.93
	6345	79	11.45
UNII-6	6505	111	12.30
UNII-7	6665	143	12.35
UNII-8	6985	207	13.95

Table 8-151

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	11.78
	6345	79	12.78
UNII-6	6505	111	12.15
UNII-7	6665	143	12.98
UNII-8	6985	207	13.60

Table 8-152

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	13.70
	6345	79	14.39
UNII-6	6505	111	13.20
UNII-7	6665	143	13.24
UNII-8	6985	207	12.70

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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.

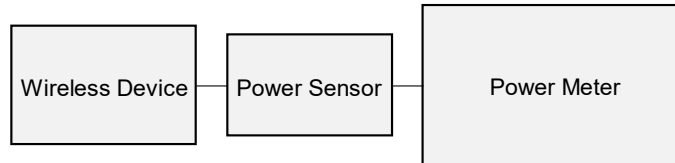


Figure 8-4
Power Measurement Setup

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8.10 Bluetooth Maximum Conducted Powers

Table 8-153
Bluetooth Average RF Power – Antenna 2a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	17.40	54.954
2441	GFSK	1.0	39	17.35	54.325
2480	GFSK	1.0	78	17.32	53.951

Table 8-154
Bluetooth Average RF Power – Antenna 4a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.59	45.604
2441	GFSK	1.0	39	16.35	43.152
2480	GFSK	1.0	78	16.37	43.351

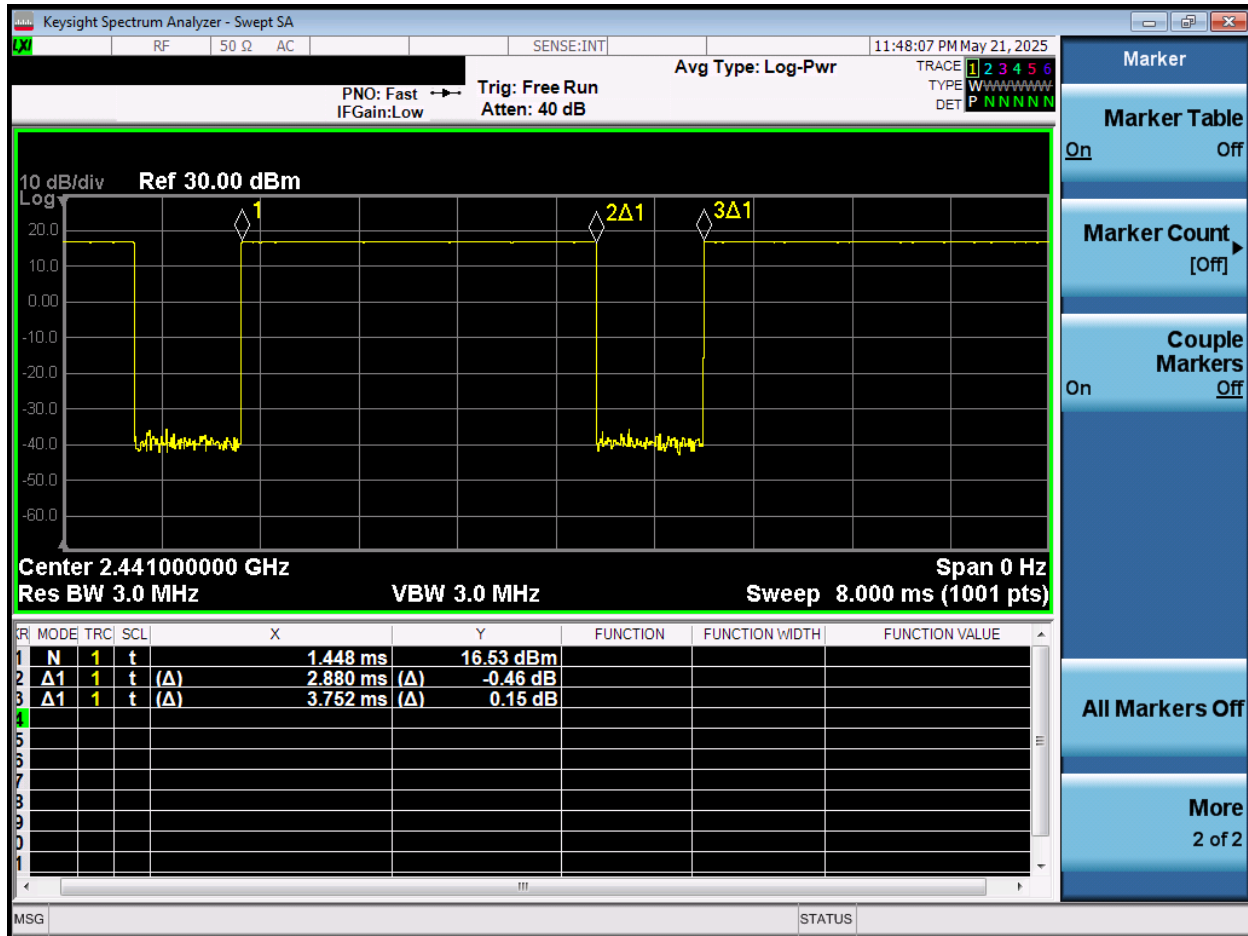
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8.11 Bluetooth Duty Cycle Plots

Figure 8-5
Bluetooth Transmission Plot – Antenna 2a



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

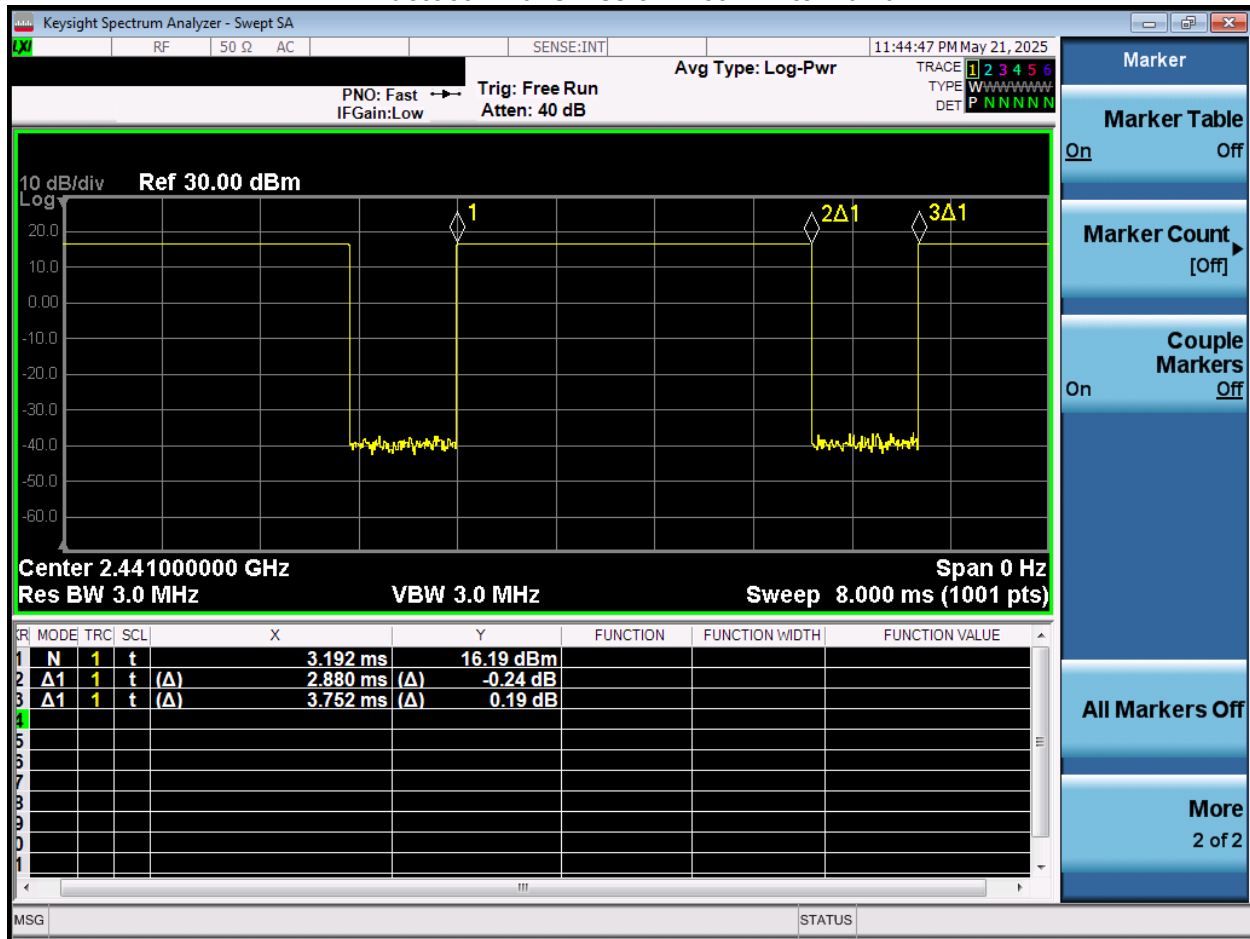
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.76\%$$

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Figure 8-6
Bluetooth Transmission Plot – Antenna 4a



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

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

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8.12 802.15.4 Maximum Conducted Powers

Table 8-155
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	17.32	53.951
2440	O-QPSK	1.0	18	17.20	52.481
2475	O-QPSK	1.0	25	17.37	54.576

Table 8-156
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	17.15	51.880
2440	O-QPSK	1.0	18	17.05	50.699
2475	O-QPSK	1.0	25	17.26	53.211

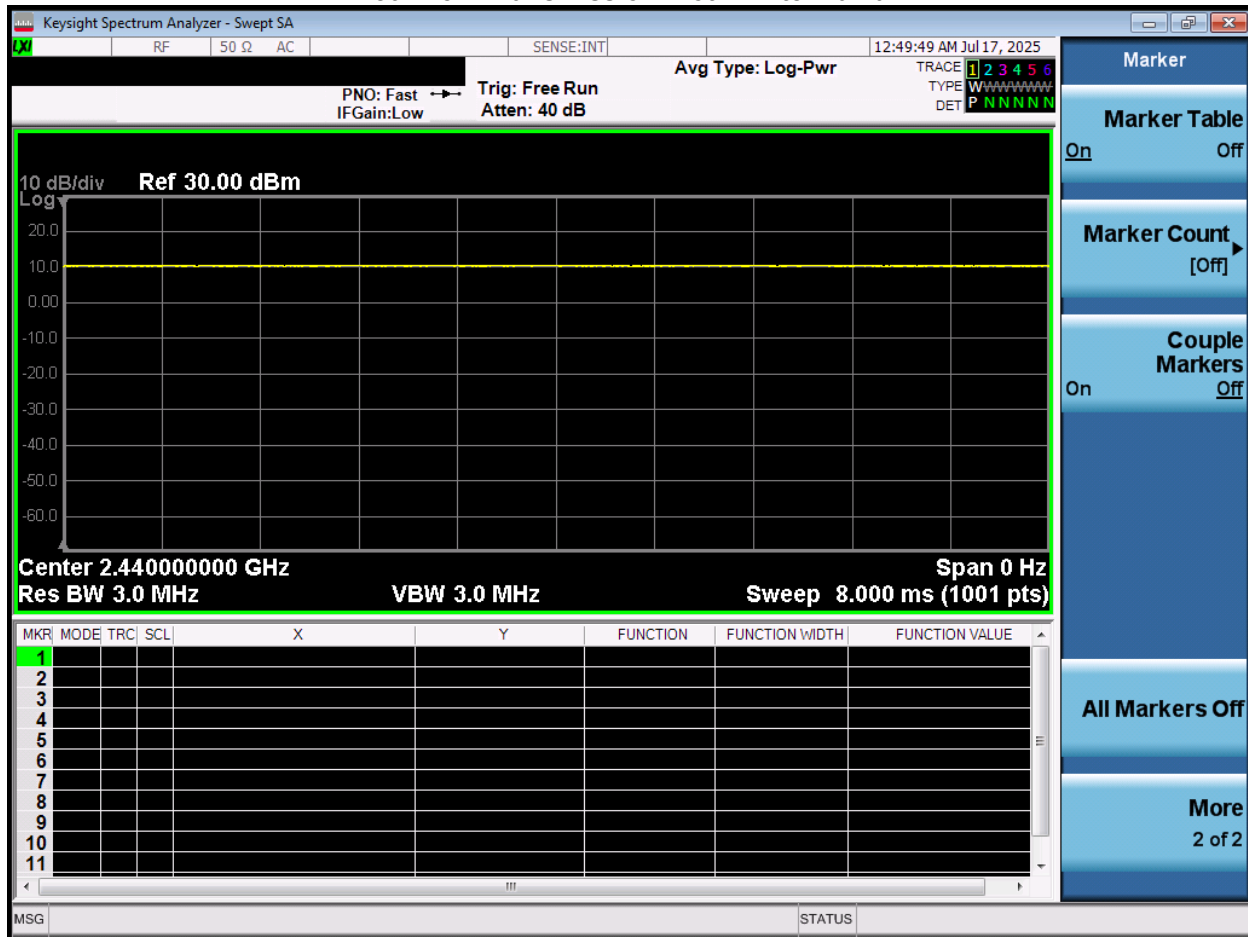
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8.13 802.15.4 Duty Cycle Plots

Figure 8-7
802.15.4 Transmission Plot – Antenna 2a



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

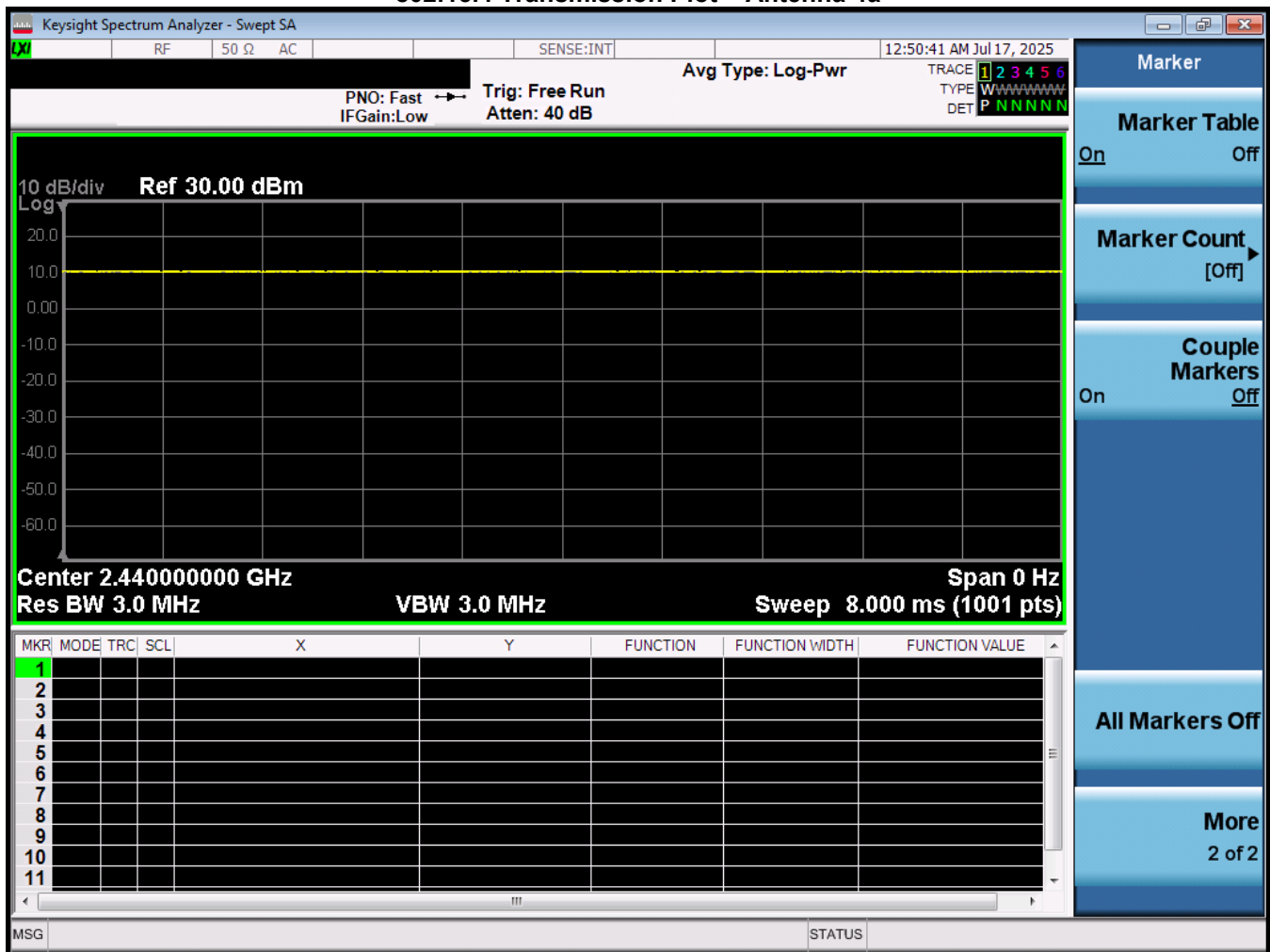
$$\text{Duty Cycle} = 100\%$$

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Figure 8-8

802.15.4 Transmission Plot – Antenna 4a



8.14 Notes for Bluetooth/802.15.4

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

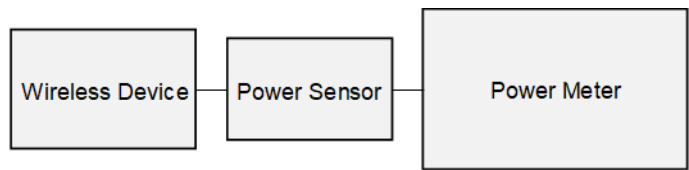


Figure 8-9
Power Measurement Setup

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8.15 NB UNII Maximum Conducted Powers

Table 8-157
NB UNII Average RF Power – Antenna 2a

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	11.38
		5204	11.35
		5245	11.53
BDR	U-NII 3	5733	15.89
		5789	15.53
		5844	15.43
HDRPL8	U-NII 5	6109	0.88
		6186	1.01
		6263	0.54
		6340	0.51
		6417	0.47

Table 8-158
NB UNII Average RF Power – Antenna 4a

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	12.07
		5204	12.28
		5245	12.23
BDR	U-NII 3	5733	15.99
		5789	16.15
		5844	16.18
HDRPL8	U-NII 5	6109	0.31
		6186	0.43
		6263	0.12
		6340	-0.07
		6417	-0.21

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Table 8-159
NB UNII Average RF Power – Antenna WF5B

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	11.23
		5204	11.30
		5245	11.61
BDR	U-NII 3	5733	17.81
		5789	17.53
		5844	17.62
HDRPL8	U-NII 5	6109	-0.20
		6186	0.14
		6263	-0.11
		6340	-0.24
		6417	-0.39

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8.16 NB UNII Reduced Conducted Powers

Table 8-160
NB UNII 3 Reduced Average RF Power – Antenna 2a

Type	Band	Frequency	Average
BDR	U-NII 3	5733	12.91
		5789	12.67
		5844	12.83

Table 8-161
NB UNII 3 Reduced Average RF Power – Antenna 4a

Type	Band	Frequency	Average
BDR	U-NII 3	5733	13.50
		5789	13.60
		5844	13.54

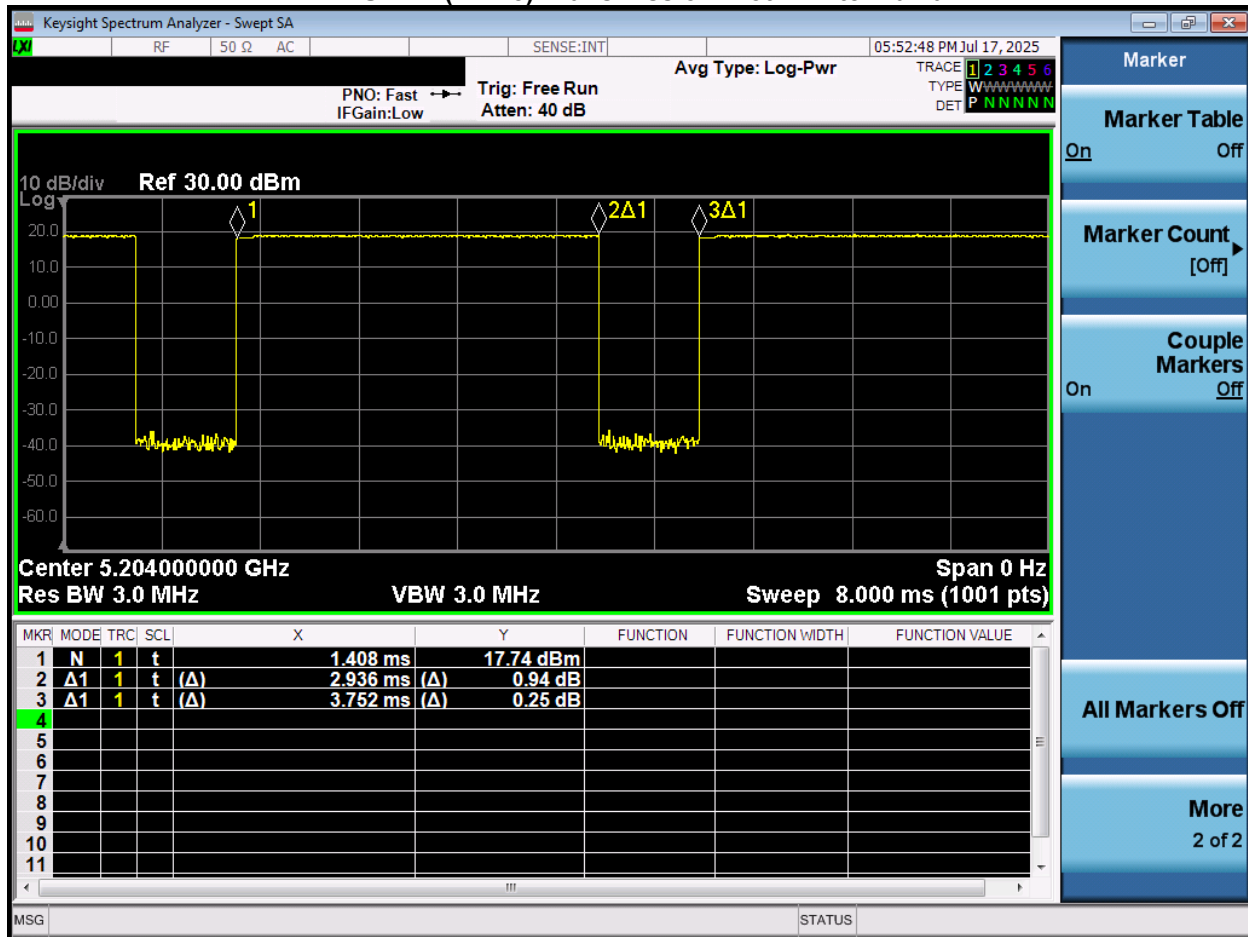
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8.17 NB UNII Duty Cycle Plots

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



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

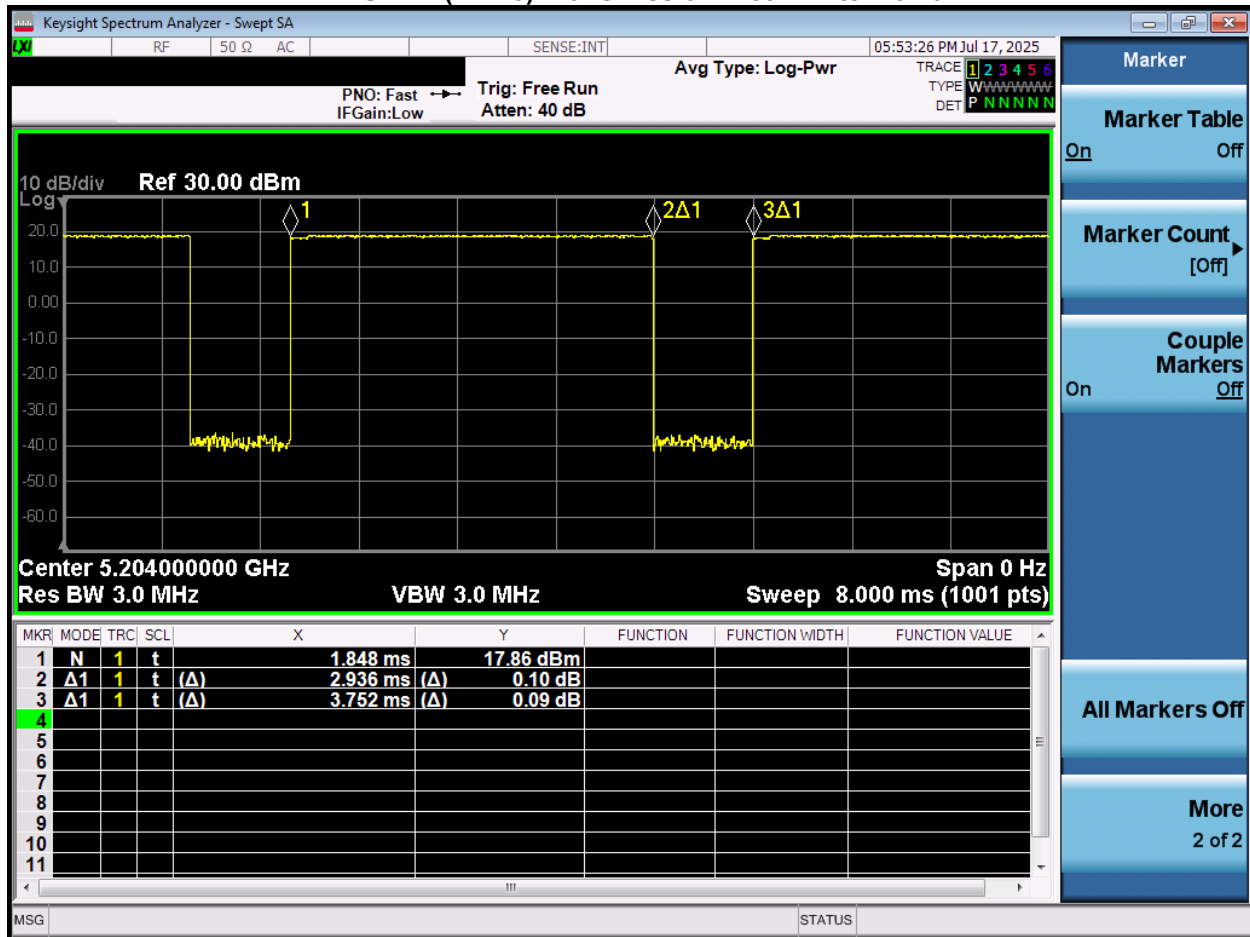
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.936 \text{ ms}}{3.752 \text{ ms}} * 100\% = 78.25\%$$

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



Equation 8-6
NB UNII 1 (HDR8) Duty Cycle Calculation – Antenna 4a

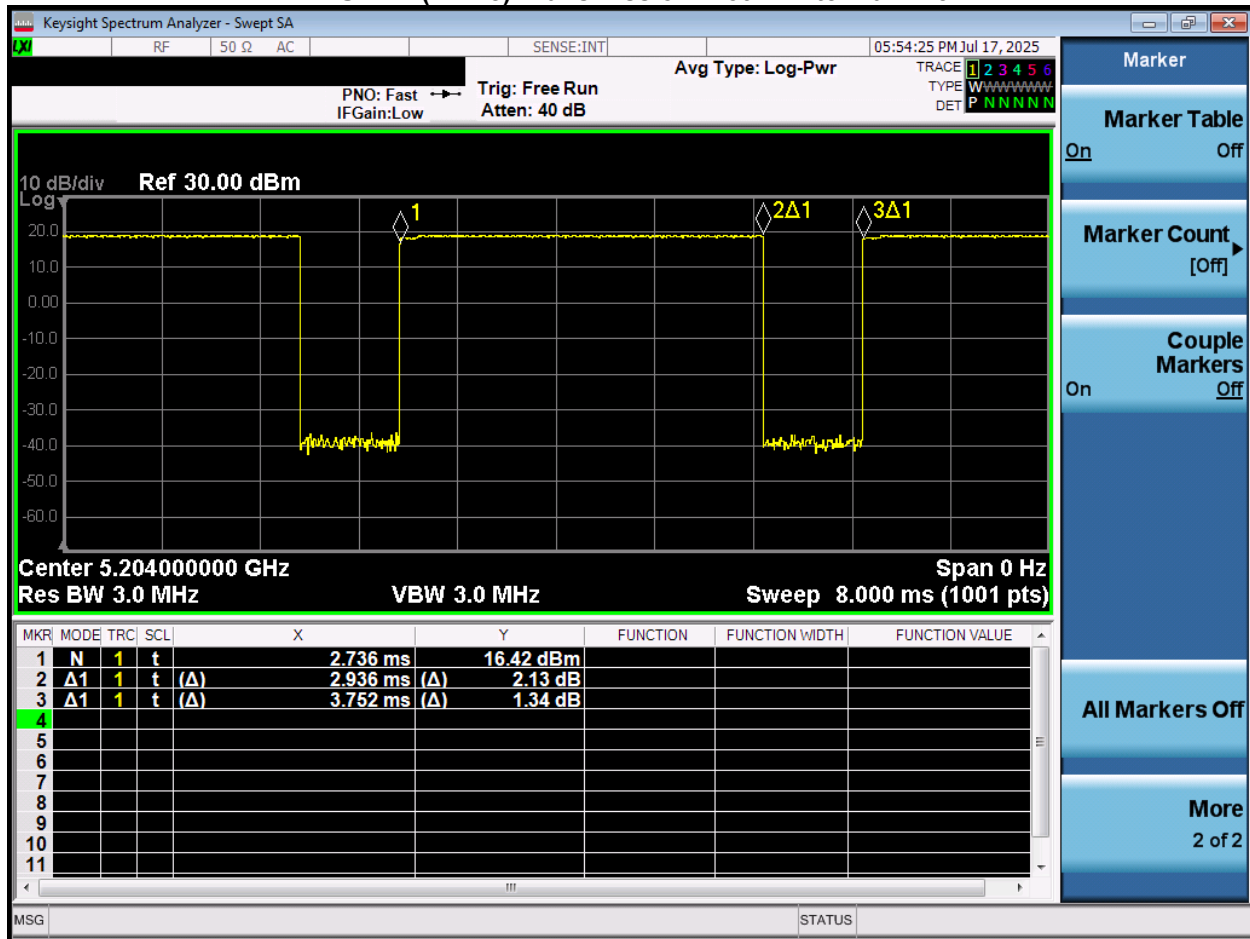
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.936\ ms}{3.752\ ms} * 100\% = 78.25\%$$

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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

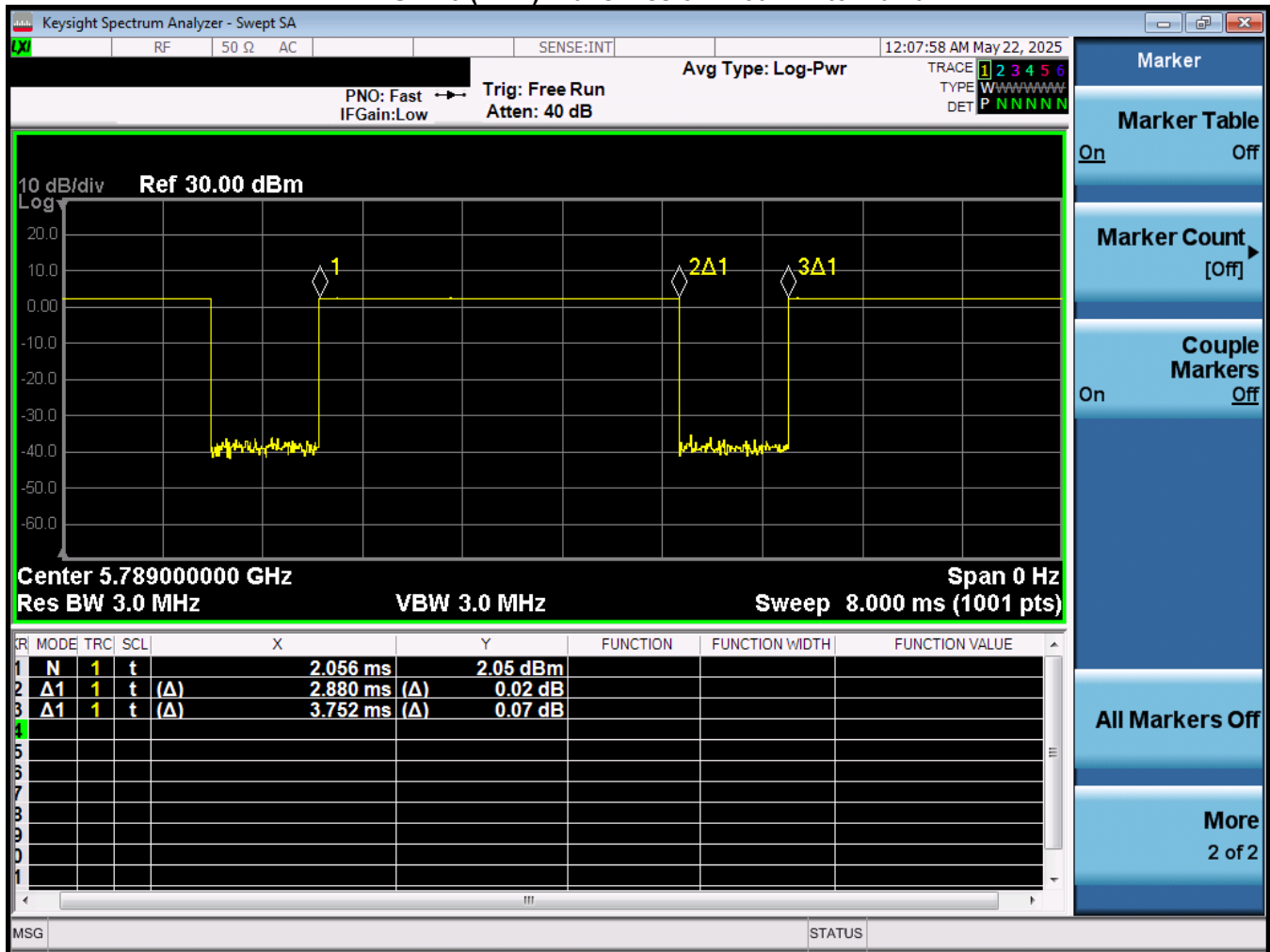
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.936\ ms}{3.752\ ms} * 100\% = 78.25\%$$

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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

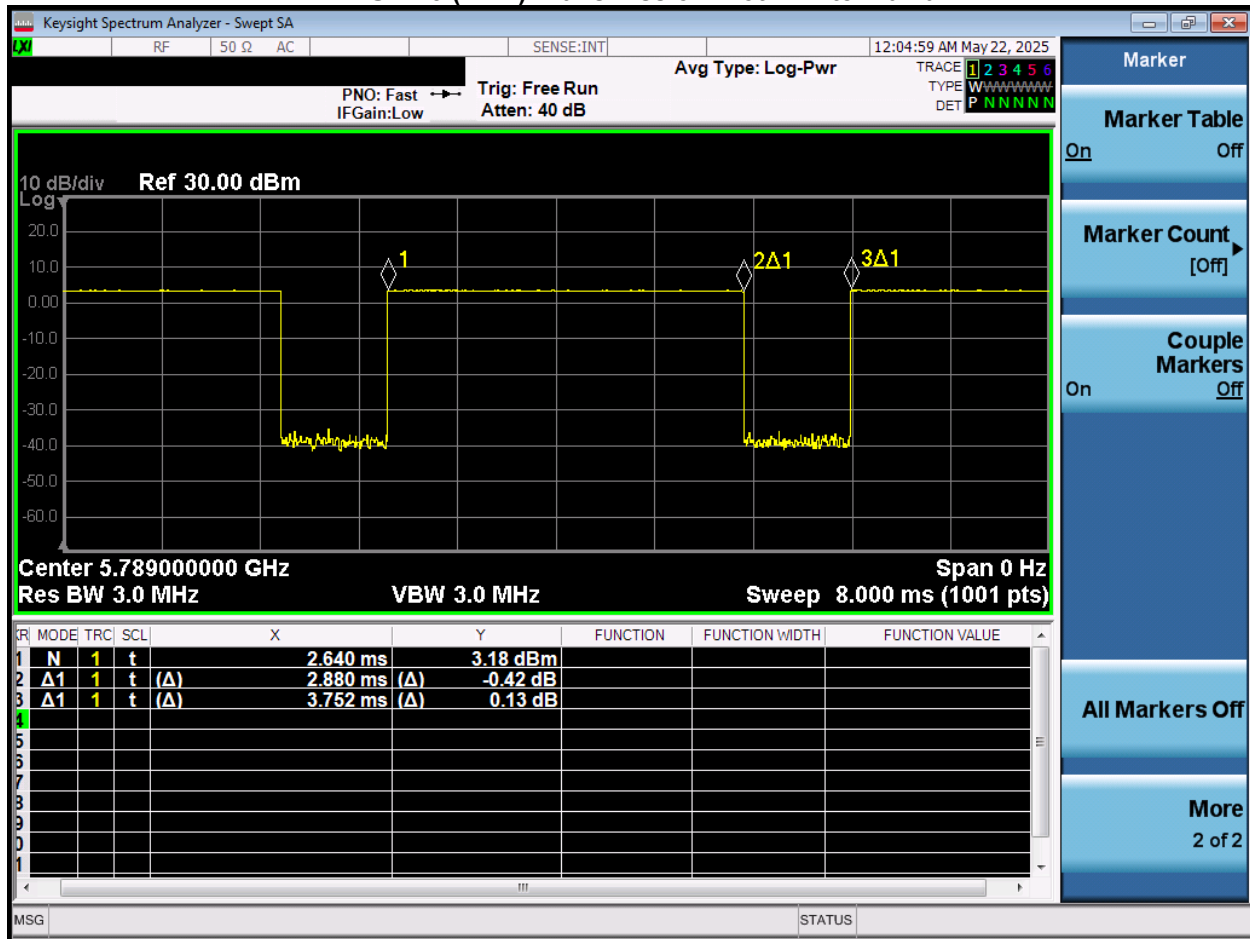
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.76\%$$

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Figure 8-14
NB UNII 3 (BDR) Transmission Plot – Antenna 4a



Equation 8-9
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna 4a

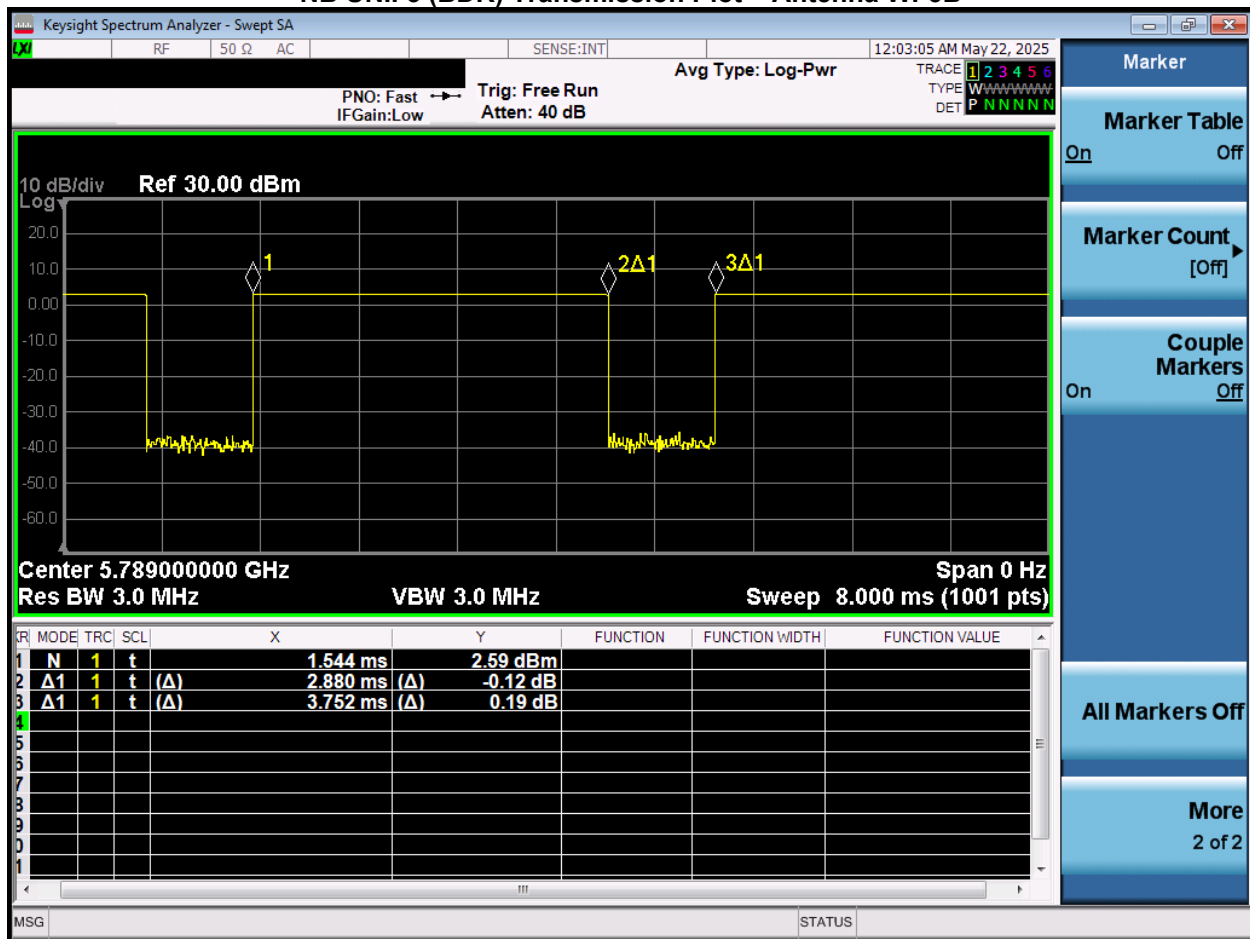
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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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

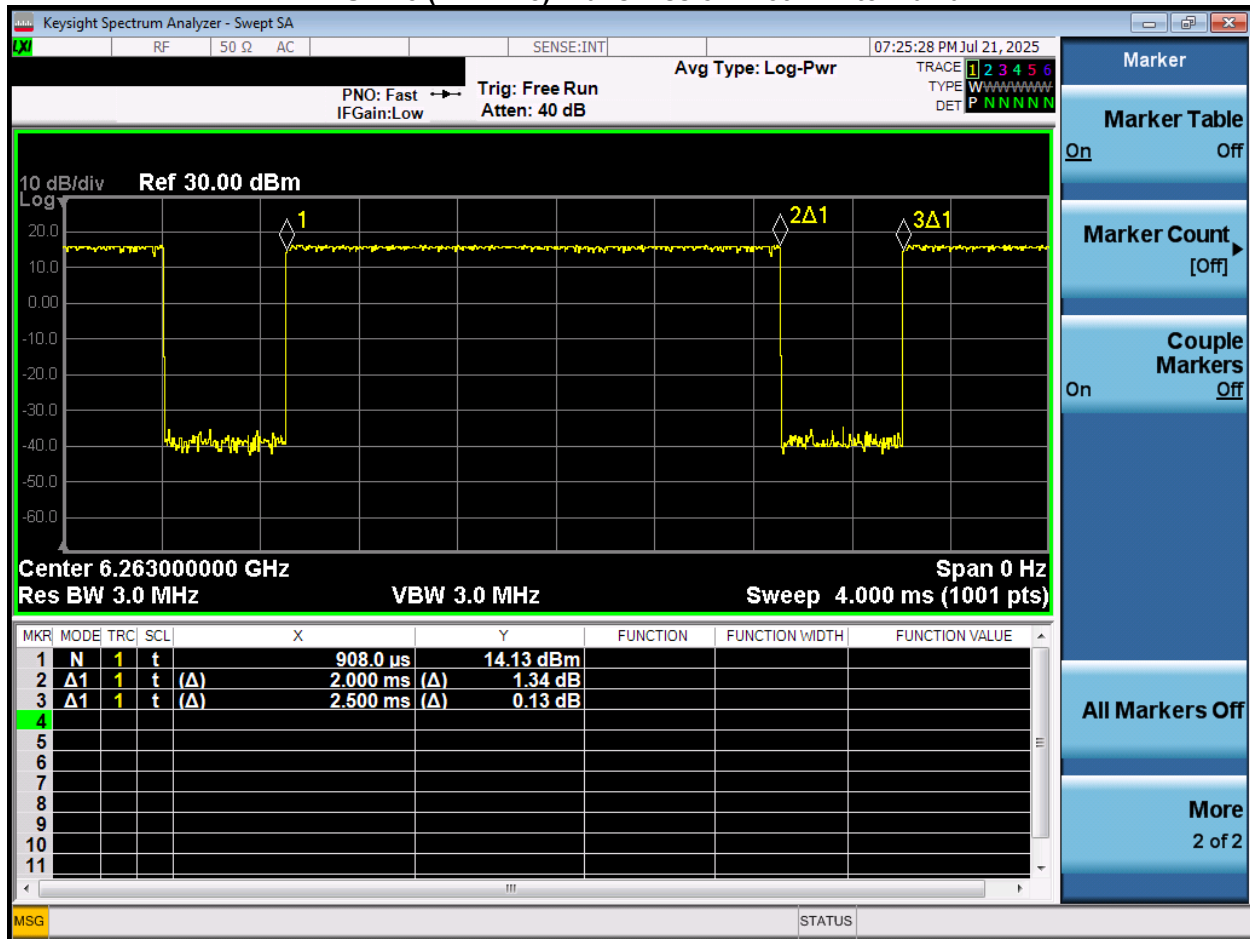
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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Figure 8-16
NB UNII 5 (HDRPL8) Transmission Plot – Antenna 2a



Equation 8-11
NB UNII 5 (HDRPL8) Duty Cycle Calculation – Antenna 2a

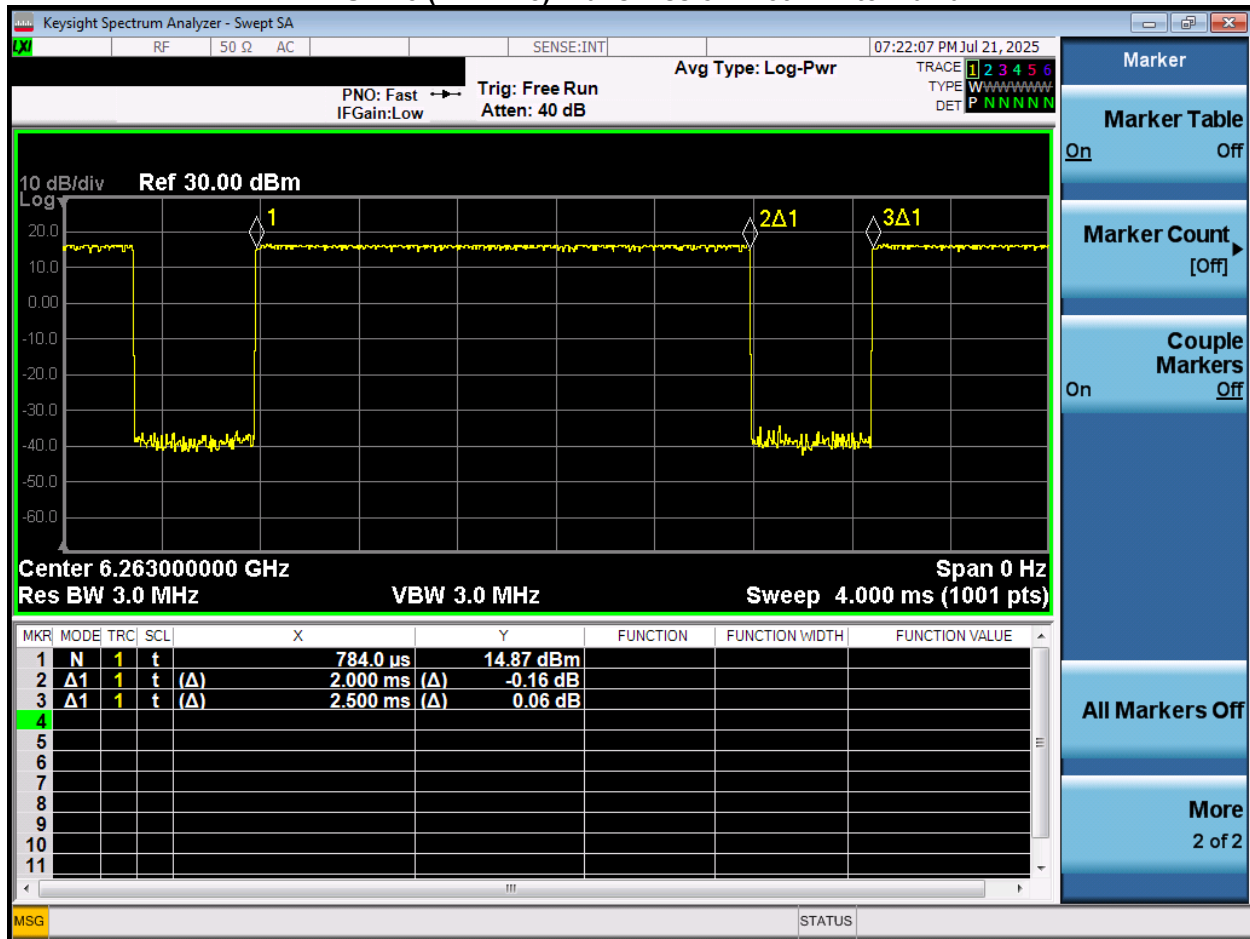
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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Figure 8-17
NB UNII 5 (HDRPL8) Transmission Plot – Antenna 4a



Equation 8-12
NB UNII 5 (HDRPL8) Duty Cycle Calculation – Antenna 4a

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

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Keysight Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:INT 07:23:42 PM Jul 21, 2025

PNO: Fast IFGain:Low Trig: Free Run Atten: 40 dB Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6 TYPE W W W W W W DET P N N N N N

10 dB/div Ref 30.00 dBm

Log

Center 6.263000000 GHz Span 0 Hz

Res BW 3.0 MHz VBW 3.0 MHz Sweep 4.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.072 ms	14.22 dBm			
2	$\Delta 1$	1	t (Δ)	2.000 ms (Δ)	1.32 dB			
3	$\Delta 1$	1	t (Δ)	2.500 ms (Δ)	0.15 dB			
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Marker

Marker Table On Off

Marker Count [Off]

Couple Markers On Off

All Markers Off

More 2 of 2

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

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8.18 Notes for NB UNII

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

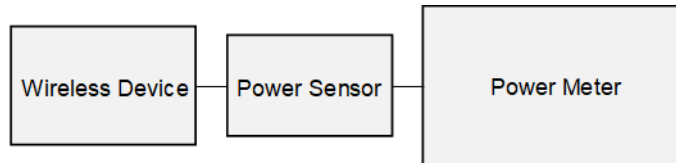


Figure 8-19

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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
7/17/2025	30 Head	24.0	4	0.765	56.072	0.750	55.000	2.00%	1.95%
			6	0.765	55.267	0.750	55.000	2.00%	0.49%
			12	0.765	53.682	0.750	55.000	2.00%	-2.40%
			13	0.765	53.533	0.750	55.000	2.13%	-2.67%
			14	0.796	53.464	0.750	55.000	2.13%	-2.75%
			30	0.768	53.251	0.750	55.000	2.40%	-3.18%
			60	0.773	52.667	0.753	54.325	2.66%	-3.05%
			65	0.774	52.578	0.753	54.213	2.79%	-3.02%
			680	0.857	41.228	0.888	42.305	-3.49%	-2.55%
			695	0.863	41.184	0.889	42.227	-2.92%	-2.47%
5/17/2025	750 Head	20.7	700	0.864	41.171	0.889	42.201	-2.81%	-2.44%
			710	0.867	41.144	0.890	42.149	-2.58%	-2.38%
			725	0.871	41.114	0.891	42.071	-2.24%	-2.27%
			750	0.878	41.051	0.894	41.942	-1.79%	-2.12%
			770	0.885	40.960	0.895	41.838	-1.12%	-2.03%
			785	0.891	40.941	0.896	41.760	-0.56%	-1.96%
			800	0.897	40.895	0.897	41.682	0.00%	-1.89%
			880	0.864	42.231	0.888	42.305	-2.70%	-0.17%
			895	0.869	42.181	0.889	42.227	-2.25%	-0.11%
			700	0.871	42.166	0.889	42.201	-2.02%	-0.08%
5/22/2025	750 Head	20.7	710	0.874	42.135	0.890	42.149	-1.80%	-0.03%
			725	0.879	42.099	0.891	42.071	-1.35%	0.07%
			750	0.887	42.020	0.894	41.942	-0.78%	0.19%
			770	0.895	41.959	0.895	41.838	0.00%	0.29%
			785	0.900	41.920	0.896	41.760	0.45%	0.38%
			800	0.906	41.866	0.897	41.682	1.00%	0.44%
			680	0.858	40.541	0.888	42.305	-3.38%	-4.17%
			695	0.863	40.492	0.889	42.227	-2.92%	-4.11%
			700	0.865	40.477	0.889	42.201	-2.70%	-4.09%
			710	0.868	40.454	0.890	42.149	-2.47%	-4.02%
5/25/2025	750 Head	21.0	725	0.873	40.399	0.891	42.071	-2.02%	-3.97%
			750	0.880	40.312	0.894	41.942	-1.57%	-3.89%
			770	0.887	40.261	0.895	41.838	-0.89%	-3.77%
			785	0.894	40.229	0.896	41.760	-0.22%	-3.67%
			800	0.900	40.201	0.897	41.682	0.33%	-3.55%
			680	0.865	41.273	0.888	42.305	-2.59%	-2.44%
			695	0.871	41.221	0.889	42.227	-2.02%	-2.38%
			700	0.872	41.201	0.889	42.201	-1.91%	-2.37%
			710	0.876	41.170	0.890	42.149	-1.57%	-2.32%
			725	0.881	41.129	0.891	42.071	-1.12%	-2.24%
5/30/2025	750 Head	20.7	750	0.889	41.076	0.894	41.942	-0.56%	-2.06%
			770	0.896	41.027	0.895	41.838	0.11%	-1.94%
			785	0.901	40.981	0.896	41.760	0.56%	-1.87%
			800	0.907	40.921	0.897	41.682	1.11%	-1.83%
			680	0.856	40.791	0.888	42.305	-3.60%	-3.58%
			695	0.861	40.754	0.889	42.227	-3.15%	-3.49%
			700	0.863	40.742	0.889	42.201	-2.92%	-3.46%
			710	0.867	40.723	0.890	42.149	-2.58%	-3.38%
			725	0.872	40.682	0.891	42.071	-2.13%	-3.30%
			750	0.880	40.613	0.894	41.942	-1.57%	-3.17%
6/3/2025	750 Head	20.5	770	0.887	40.542	0.895	41.838	-0.89%	-3.10%
			785	0.893	40.487	0.896	41.760	-0.33%	-3.05%
			800	0.899	40.438	0.897	41.682	0.22%	-2.98%
			680	0.864	41.327	0.888	42.305	-2.70%	-2.31%
			695	0.869	41.289	0.889	42.227	-2.25%	-2.22%
			700	0.871	41.274	0.889	42.201	-2.02%	-2.20%
			710	0.875	41.239	0.890	42.149	-1.69%	-2.16%
			725	0.879	41.183	0.891	42.071	-1.35%	-2.11%
			750	0.886	41.117	0.894	41.942	-0.89%	-1.97%
			770	0.893	41.077	0.895	41.838	-0.22%	-1.82%
6/19/2025	750 Head	20.7	785	0.898	41.046	0.896	41.760	0.22%	-1.71%
			800	0.904	41.005	0.897	41.682	0.78%	-1.62%
			680	0.851	42.816	0.888	42.305	-4.17%	1.21%
			695	0.856	42.770	0.889	42.227	-3.71%	1.29%
			700	0.858	42.760	0.889	42.201	-3.49%	1.32%
			710	0.861	42.740	0.890	42.149	-3.26%	1.40%
			725	0.867	42.713	0.891	42.071	-2.69%	1.53%
			750	0.874	42.656	0.894	41.942	-2.24%	1.70%
			770	0.881	42.578	0.895	41.838	-1.56%	1.77%
			785	0.886	42.528	0.896	41.760	-1.12%	1.84%
7/20/2025	750 Head	21.7	800	0.892	42.465	0.897	41.682	-0.56%	1.93%
			815	0.878	41.318	0.888	41.594	-2.23%	-0.66%
			820	0.882	41.253	0.899	41.578	-1.89%	-0.78%
			835	0.896	41.059	0.900	41.500	-0.44%	-1.06%
			850	0.910	40.872	0.916	41.500	-0.66%	-1.51%
			815	0.873	42.078	0.898	41.594	-2.78%	1.16%
			820	0.878	42.009	0.899	41.578	-2.34%	1.04%
			835	0.890	41.815	0.900	41.500	-0.78%	0.76%
			850	0.907	41.634	0.916	41.500	-0.98%	0.32%
			815	0.882	41.305	0.898	41.594	-1.78%	-0.69%
5/21/2025	835 Head	21.3	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%
			815	0.882	41.305	0.898	41.594	-1.78%	-0.69%
5/27/2025	835 Head	20.0	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%
			815	0.882	41.305	0.898	41.594	-1.78%	-0.69%
6/11/2025	835 Head	20.4	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%
			815	0.882	41.305	0.898	41.594	-1.78%	-0.69%

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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
5/16/2025	1750 Head	21.0	1700	1.323	38.882	1.343	40.145	-1.49%	-3.15%
			1705	1.326	38.872	1.345	40.141	-1.41%	-3.16%
			1710	1.329	38.862	1.348	40.136	-1.41%	-3.17%
			1720	1.336	38.849	1.354	40.126	-1.33%	-3.18%
			1745	1.351	38.830	1.368	40.087	-1.24%	-3.14%
			1750	1.353	38.824	1.371	40.079	-1.31%	-3.13%
			1770	1.364	38.790	1.383	40.047	-1.37%	-3.16%
			1790	1.376	38.719	1.394	40.016	-1.29%	-3.24%
7/17/2025	1750 Head	20.0	1700	1.285	38.820	1.343	40.145	-4.32%	-3.30%
			1705	1.288	38.815	1.345	40.141	-4.24%	-3.30%
			1710	1.291	38.812	1.348	40.136	-4.23%	-3.30%
			1720	1.296	38.798	1.354	40.126	-4.28%	-3.31%
			1745	1.311	38.749	1.368	40.087	-4.17%	-3.34%
			1750	1.314	38.740	1.371	40.079	-4.16%	-3.34%
			1770	1.325	38.712	1.383	40.047	-4.19%	-3.33%
			1790	1.337	38.690	1.394	40.016	-4.09%	-3.31%
5/21/2025	1900 Head	22.9	1860	1.335	38.790	1.400	40.000	-4.64%	-3.10%
			1880	1.354	38.681	1.400	40.000	-3.29%	-3.30%
			1900	1.373	38.612	1.400	40.000	-1.93%	-3.47%
			1905	1.378	38.595	1.400	40.000	-1.57%	-3.51%
			1910	1.383	38.576	1.400	40.000	-1.21%	-3.56%
			1920	1.393	38.540	1.400	40.000	-0.50%	-3.65%
			1850	1.338	39.034	1.400	40.000	-4.43%	-2.42%
			1860	1.347	38.988	1.400	40.000	-3.79%	-2.53%
5/27/2025	1900 Head	22.0	1880	1.367	38.910	1.400	40.000	-2.36%	-2.73%
			1900	1.386	38.831	1.400	40.000	-1.00%	-2.92%
			1905	1.391	38.809	1.400	40.000	-0.64%	-2.98%
			1910	1.396	38.791	1.400	40.000	-0.29%	-3.02%
			1920	1.406	38.753	1.400	40.000	0.43%	-3.12%
			2300	1.679	40.306	1.670	39.500	0.54%	2.04%
			2310	1.687	40.290	1.679	39.480	0.48%	2.05%
			2320	1.696	40.282	1.687	39.460	0.53%	2.08%
5/20/2025	2450 Head	20.7	2400	1.753	40.150	1.756	39.289	-0.17%	2.19%
			2450	1.793	40.095	1.800	39.200	-0.39%	2.28%
			2480	1.814	40.051	1.833	39.162	-1.04%	2.27%
			2500	1.828	40.014	1.855	39.136	-1.46%	2.24%
			2510	1.835	39.997	1.866	39.123	-1.66%	2.23%
			2535	1.857	39.963	1.893	39.092	-1.90%	2.23%
			2550	1.871	39.946	1.909	39.073	-1.99%	2.23%
			2560	1.880	39.935	1.920	39.060	-2.08%	2.24%
6/2/2025	2450 Head	19.2	2600	1.913	39.876	1.964	39.009	-2.60%	2.22%
			2650	1.954	39.785	2.018	38.945	-3.17%	2.16%
			2680	1.979	39.729	2.051	38.907	-3.51%	2.11%
			2700	1.996	39.697	2.073	38.882	-3.71%	2.10%
			2300	1.665	38.377	1.670	39.500	-0.30%	-2.84%
			2310	1.674	38.362	1.679	39.480	-0.30%	-2.83%
			2320	1.682	38.350	1.687	39.460	-0.30%	-2.81%
			2400	1.744	38.215	1.756	39.289	-0.68%	-2.73%
6/5/2025	2450 Head	20.0	2450	1.783	38.134	1.800	39.200	-0.94%	-2.72%
			2480	1.806	38.078	1.833	39.162	-1.47%	-2.77%
			2500	1.824	38.043	1.855	39.136	-1.67%	-2.79%
			2510	1.834	38.027	1.866	39.123	-1.71%	-2.80%
			2535	1.855	37.997	1.893	39.092	-2.01%	-2.80%
			2550	1.868	37.985	1.909	39.073	-2.15%	-2.78%
			2560	1.876	37.970	1.920	39.060	-2.29%	-2.79%
			2600	1.911	37.883	1.964	39.009	-2.70%	-2.89%
6/7/2025	2450 Head	20.2	2650	1.955	37.806	2.018	38.945	-3.12%	-2.92%
			2680	1.982	37.751	2.051	38.907	-3.36%	-2.97%
			2700	1.999	37.707	2.073	38.882	-3.57%	-3.02%
			2300	1.666	38.657	1.670	39.500	-0.24%	-2.13%
			2310	1.674	38.642	1.679	39.480	-0.30%	-2.12%
			2320	1.681	38.630	1.687	39.460	-0.36%	-2.10%
			2400	1.739	38.505	1.756	39.289	-0.97%	-2.00%
			2450	1.778	38.444	1.800	39.200	-1.22%	-1.93%
6/5/2025	2450 Head	20.0	2480	1.800	38.395	1.833	39.162	-1.80%	-1.96%
			2500	1.815	38.364	1.855	39.136	-2.16%	-1.97%
			2510	1.823	38.350	1.866	39.123	-2.30%	-1.96%
			2535	1.844	38.317	1.893	39.092	-2.59%	-1.98%
			2550	1.857	38.297	1.909	39.073	-2.72%	-1.99%
			2560	1.865	38.282	1.920	39.060	-2.86%	-1.99%
			2600	1.899	38.217	1.964	39.009	-3.31%	-2.03%
			2650	1.941	38.133	2.018	38.945	-3.62%	-2.08%
6/7/2025	2450 Head	20.2	2680	1.966	38.077	2.051	38.907	-4.14%	-2.13%
			2700	1.982	38.037	2.073	38.882	-4.39%	-2.17%
			2300	1.666	38.548	1.670	39.500	-0.24%	-2.41%
			2310	1.674	38.539	1.679	39.480	-0.30%	-2.38%
			2320	1.681	38.531	1.687	39.460	-0.36%	-2.35%
			2400	1.739	38.419	1.756	39.289	-0.97%	-2.21%
			2450	1.778	38.358	1.800	39.200	-1.22%	-2.15%
			2480	1.801	38.310	1.833	39.162	-1.75%	-2.18%
6/7/2025	2450 Head	20.2	2500	1.817	38.277	1.855	39.136	-2.05%	-2.19%
			2510	1.825	38.263	1.866	39.123	-2.20%	-2.20%
			2535	1.846	38.227	1.893	39.092	-2.46%	-2.21%
			2550	1.859	38.206	1.909	39.073	-2.62%	-2.22%
			2560	1.867	38.190	1.920	39.060	-2.76%	-2.23%
			2600	1.900	38.125	1.964	39.009	-3.26%	-2.27%
			2650	1.941	38.047	2.018	38.945	-3.82%	-2.31%
			2680	1.966	37.988	2.051	38.907	-4.14%	-2.36%
6/7/2025	2450 Head	20.2	2700	1.983	37.946	2.073	38.882	-4.34%	-2.41%

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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	2450 Head	19.4	2300	1.649	38.605	1.670	39.500	-1.26%	-2.27%
			2310	1.656	38.590	1.679	39.480	-1.37%	-2.25%
			2320	1.664	38.576	1.687	39.460	-1.36%	-2.24%
			2400	1.723	38.470	1.756	39.289	-1.88%	-2.08%
			2450	1.764	38.399	1.800	39.200	-2.00%	-2.04%
			2480	1.787	38.342	1.833	39.162	-2.51%	-2.09%
			2500	1.804	38.310	1.855	39.136	-2.75%	-2.11%
			2510	1.813	38.295	1.866	39.123	-2.84%	-2.12%
			2535	1.833	38.256	1.893	39.092	-3.17%	-2.14%
			2550	1.846	38.235	1.909	39.073	-3.30%	-2.14%
			2560	1.855	38.216	1.920	39.060	-3.39%	-2.16%
			2600	1.890	38.123	1.964	39.009	-3.77%	-2.27%
			2650	1.930	38.025	2.018	38.945	-4.36%	-2.36%
			2680	1.954	37.960	2.051	38.907	-4.73%	-2.43%
			2700	1.970	37.915	2.073	38.882	-4.97%	-2.49%
			2300	1.688	38.692	1.670	39.500	1.08%	-2.05%
			2310	1.701	38.663	1.679	39.480	1.31%	-2.07%
6/16/2025	2450 Head	24.7	2320	1.713	38.639	1.687	39.460	1.54%	-2.08%
			2400	1.796	38.349	1.756	39.289	2.28%	-2.39%
			2450	1.857	38.165	1.800	39.200	3.17%	-2.64%
			2480	1.883	38.031	1.833	39.162	2.73%	-2.89%
			2500	1.907	37.937	1.855	39.136	2.80%	-3.06%
			2510	1.921	37.895	1.866	39.123	2.95%	-3.14%
			2535	1.957	37.805	1.893	39.092	3.38%	-3.29%
			2550	1.974	37.755	1.909	39.073	3.40%	-3.37%
			2560	1.984	37.730	1.920	39.060	3.33%	-3.41%
			2600	2.021	37.574	1.964	39.009	2.90%	-3.68%
			2650	2.087	37.339	2.018	38.945	3.42%	-4.12%
			2680	2.118	37.238	2.051	38.907	3.27%	-4.29%
			2700	2.135	37.161	2.073	38.882	2.99%	-4.43%
			2300	1.655	38.764	1.670	39.500	-0.90%	-1.86%
			2310	1.663	38.755	1.679	39.480	-0.95%	-1.84%
			2320	1.671	38.742	1.687	39.460	-0.95%	-1.82%
			2400	1.732	38.625	1.756	39.289	-1.37%	-1.69%
6/17/2025	2450 Head	19.5	2450	1.772	38.555	1.800	39.200	-1.56%	-1.65%
			2480	1.794	38.493	1.833	39.162	-2.13%	-1.71%
			2500	1.811	38.462	1.855	39.136	-2.37%	-1.72%
			2510	1.820	38.448	1.866	39.123	-2.47%	-1.73%
			2535	1.839	38.412	1.893	39.092	-2.85%	-1.74%
			2550	1.852	38.391	1.909	39.073	-2.99%	-1.75%
			2560	1.860	38.378	1.920	39.060	-3.12%	-1.75%
			2600	1.893	38.298	1.964	39.009	-3.62%	-1.82%
			2650	1.936	38.212	2.018	38.945	-4.06%	-1.88%
			2680	1.960	38.158	2.051	38.907	-4.44%	-1.93%
			2700	1.977	38.118	2.073	38.882	-4.63%	-1.96%
			2300	1.688	38.834	1.670	39.500	1.08%	-1.69%
			2310	1.700	38.797	1.679	39.480	1.25%	-1.73%
			2320	1.712	38.759	1.687	39.460	1.48%	-1.78%
			2400	1.800	38.435	1.756	39.289	2.51%	-2.17%
			2450	1.856	38.253	1.800	39.200	3.11%	-2.42%
			2480	1.889	38.130	1.833	39.162	3.06%	-2.64%
7/22/2025	2450 Head	24.6	2500	1.913	38.050	1.855	39.136	3.13%	-2.77%
			2510	1.925	38.011	1.866	39.123	3.16%	-2.84%
			2535	1.955	37.919	1.893	39.092	3.28%	-3.00%
			2550	1.972	37.865	1.909	39.073	3.30%	-3.09%
			2560	1.984	37.828	1.920	39.060	3.33%	-3.15%
			2600	2.030	37.660	1.964	39.009	3.36%	-3.46%
			2650	2.091	37.458	2.018	38.945	3.62%	-3.82%
			2680	2.125	37.340	2.051	38.907	3.61%	-4.03%
			2700	2.148	37.254	2.073	38.882	3.62%	-4.19%
			3300	2.681	39.969	2.708	38.157	-1.00%	4.75%
			3350	2.722	39.885	2.759	38.100	-1.34%	4.69%
			3450	2.801	39.756	2.861	37.986	-2.10%	4.66%
			3500	2.847	39.694	2.913	37.929	-2.27%	4.65%
			3550	2.887	39.613	2.964	37.871	-2.60%	4.60%
			3560	2.898	39.585	2.974	37.860	-2.56%	4.56%
			3600	2.935	39.553	3.015	37.814	-2.65%	4.60%
			3650	2.977	39.494	3.066	37.757	-2.90%	4.60%
5/26/2025	3600 Head	20.7	3690	3.016	39.427	3.107	37.711	-2.93%	4.55%
			3700	3.027	39.413	3.117	37.700	-2.89%	4.54%
			3750	3.067	39.342	3.169	37.643	-3.22%	4.51%
			3900	3.211	39.161	3.323	37.471	-3.37%	4.51%
			3930	3.241	39.127	3.353	37.437	-3.34%	4.51%
			4100	3.407	38.904	3.528	37.243	-3.43%	4.46%
			4150	3.455	38.859	3.579	37.186	-3.46%	4.50%

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6/4/2025	3600 Head	19.6	3300	2.700	40.036	2.708	38.157	-0.30%	4.92%
			3350	2.738	39.956	2.759	38.100	-0.76%	4.87%
			3400	2.822	39.789	2.861	37.886	-1.36%	4.75%
			3500	2.869	39.740	2.913	37.929	-1.51%	4.77%
			3550	2.908	39.662	2.964	37.871	-1.89%	4.73%
			3560	2.918	39.624	2.974	37.860	-1.88%	4.66%
			3600	2.954	39.595	3.015	37.814	-2.02%	4.71%
			3650	2.995	39.515	3.066	37.757	-2.32%	4.66%
			3690	3.036	39.447	3.107	37.711	-2.29%	4.60%
			3700	3.044	39.428	3.117	37.700	-2.34%	4.58%
			3750	3.086	39.374	3.169	37.643	-2.62%	4.60%
			3900	3.228	39.183	3.323	37.471	-2.86%	4.57%
			3930	3.255	39.144	3.353	37.437	-2.92%	4.56%
			4100	3.417	38.921	3.528	37.243	-3.15%	4.51%
			4150	3.468	38.902	3.579	37.186	-3.10%	4.61%
			3300	2.723	37.301	2.708	38.157	0.55%	-2.24%
			3350	2.759	37.233	2.759	38.100	0.00%	-2.28%
			3450	2.838	37.068	2.861	37.986	-0.80%	-2.42%
			3500	2.883	36.987	2.913	37.929	-1.03%	-2.48%
			3550	2.925	36.896	2.964	37.871	-1.32%	-2.57%
7/5/2025	3600 Head	20.6	3560	2.933	36.674	2.974	37.860	-1.38%	-2.60%
			3600	2.966	36.642	3.015	37.814	-1.63%	-2.57%
			3650	3.008	36.771	3.066	37.757	-1.89%	-2.61%
			3690	3.046	36.682	3.107	37.711	-1.96%	-2.73%
			3700	3.055	36.673	3.117	37.700	-1.99%	-2.72%
			3750	3.098	36.623	3.169	37.643	-2.24%	-2.71%
			3900	3.233	36.381	3.323	37.471	-2.71%	-2.91%
			3930	3.261	36.337	3.353	37.437	-2.74%	-2.94%
			4100	3.417	36.094	3.528	37.243	-3.15%	-3.09%
			4150	3.462	36.050	3.579	37.186	-3.27%	-3.05%
			3300	2.600	38.480	2.708	38.157	-3.99%	0.85%
			3350	2.647	38.355	2.759	38.100	-4.06%	0.67%
			3450	2.739	38.171	2.861	37.986	-4.26%	0.49%
			3500	2.786	38.080	2.913	37.929	-4.36%	0.40%
			3550	2.832	37.986	2.964	37.871	-4.45%	0.30%
			3560	2.842	37.962	2.974	37.860	-4.44%	0.27%
			3600	2.885	37.896	3.015	37.814	-4.31%	0.19%
			3650	2.930	37.823	3.066	37.757	-4.44%	0.17%
			3690	2.971	37.728	3.107	37.711	-4.38%	0.05%
			3700	2.980	37.715	3.117	37.700	-4.40%	0.04%
8/25/2025	3600 Head	19.3	3750	3.028	37.638	3.169	37.643	-4.45%	-0.01%
			3900	3.188	37.364	3.323	37.471	-4.06%	-0.29%
			3930	3.216	37.313	3.353	37.437	-4.09%	-0.33%
			4100	3.400	36.996	3.528	37.243	-3.63%	-0.66%
			4150	3.455	36.926	3.579	37.186	-3.46%	-0.70%
			5150	4.417	35.396	4.608	36.050	-4.14%	-1.84%
			5160	4.431	35.380	4.618	36.040	-4.05%	-1.83%
			5170	4.443	35.355	4.629	36.030	-4.02%	-1.87%
			5180	4.456	35.323	4.635	36.009	-3.86%	-1.91%
			5190	4.470	35.294	4.645	35.998	-3.77%	-1.96%
			5200	4.486	35.290	4.655	35.986	-3.63%	-1.93%
			5210	4.500	35.290	4.666	35.975	-3.56%	-1.90%
			5220	4.509	35.280	4.676	35.963	-3.57%	-1.90%
			5240	4.527	35.232	4.696	35.940	-3.60%	-1.97%
			5250	4.535	35.216	4.706	35.929	-3.63%	-1.98%
			5260	4.544	35.197	4.717	35.917	-3.67%	-2.00%
			5270	4.553	35.189	4.727	35.906	-3.68%	-2.05%
			5280	4.571	35.137	4.737	35.894	-3.50%	-2.11%
			5290	4.585	35.109	4.748	35.883	-3.43%	-2.16%
7/19/2025	5200-5800 Head	19.0	5300	4.596	35.087	4.758	35.871	-3.40%	-2.19%
			5310	4.605	35.075	4.768	35.860	-3.42%	-2.19%
			5320	4.616	35.068	4.778	35.849	-3.39%	-2.18%
			5500	4.815	34.710	4.963	35.643	-2.98%	-2.62%
			5510	4.825	34.698	4.973	35.632	-2.98%	-2.62%
			5520	4.835	34.684	4.983	35.620	-2.97%	-2.63%
			5530	4.851	34.660	4.994	35.609	-2.86%	-2.67%
			5540	4.863	34.641	5.004	35.597	-2.82%	-2.69%
			5550	4.889	34.624	5.014	35.586	-2.89%	-2.70%
			5560	4.874	34.612	5.024	35.574	-2.99%	-2.70%
			5580	4.897	34.576	5.045	35.551	-2.93%	-2.74%
			5600	4.925	34.498	5.065	35.529	-2.76%	-2.99%
			5610	4.940	34.472	5.076	35.518	-2.68%	-2.94%
			5620	4.959	34.452	5.086	35.506	-2.50%	-2.94%
			5640	4.989	34.439	5.106	35.483	-2.29%	-2.94%
			5660	5.005	34.416	5.127	35.460	-2.38%	-2.94%
			5670	5.010	34.396	5.137	35.449	-2.47%	-2.97%
			5680	5.017	34.381	5.147	35.437	-2.53%	-2.98%
			5690	5.027	34.363	5.158	35.426	-2.54%	-3.00%
			5700	5.039	34.329	5.168	35.414	-2.50%	-3.06%
			5710	5.051	34.298	5.178	35.403	-2.45%	-3.12%
			5720	5.064	34.274	5.188	35.391	-2.39%	-3.16%
			5745	5.105	34.227	5.214	35.363	-2.09%	-3.21%
			5750	5.112	34.218	5.219	35.357	-2.05%	-3.23%
			5755	5.115	34.211	5.224	35.351	-2.09%	-3.22%
			5765	5.124	34.207	5.234	35.340	-2.10%	-3.21%
			5775	5.133	34.199	5.245	35.329	-2.14%	-3.20%
			5785	5.143	34.179	5.255	35.317	-2.13%	-3.22%
			5795	5.150	34.152	5.265	35.305	-2.18%	-3.27%
			5800	5.153	34.138	5.270	35.300	-2.22%	-3.29%
			5805	5.157	34.121	5.275	35.294	-2.24%	-3.32%
			5825	5.186	34.083	5.296	35.271	-2.08%	-3.37%
			5835	5.198	34.074	5.305	35.230	-2.02%	-3.28%
			5845	5.214	34.069	5.315	35.210	-1.90%	-3.24%
			5850	5.221	34.063	5.320	35.200	-1.86%	-3.23%
			5855	5.227	34.053	5.325	35.197	-1.84%	-3.22%
			5865	5.240	34.031	5.336	35.190	-1.80%	-3.29%
			5875	5.252	34.015	5.347	35.183	-1.78%	-3.32%
			5885	5.263	33.987	5.357	35.177	-1.75%	-3.38%
			5905	5.279	33.941	5.379	35.163	-1.86%	-3.48%

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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
7/29/2025	5200-5800 Head	19.0	5150	4.410	37.603	4.608	36.050	-4.30%	4.31%
			5160	4.421	37.590	4.618	36.040	-4.27%	4.30%
			5170	4.433	37.568	4.629	36.030	-4.23%	4.27%
			5180	4.444	37.544	4.635	36.009	-4.12%	4.26%
			5190	4.457	37.522	4.645	35.988	-4.05%	4.23%
			5200	4.468	37.506	4.655	35.986	-4.02%	4.22%
			5210	4.477	37.486	4.666	35.975	-4.05%	4.20%
			5220	4.486	37.462	4.676	35.963	-4.06%	4.17%
			5240	4.513	37.425	4.695	35.940	-3.90%	4.15%
			5250	4.525	37.430	4.706	35.929	-3.85%	4.18%
			5260	4.537	37.410	4.717	35.917	-3.82%	4.16%
			5270	4.547	37.382	4.727	35.906	-3.81%	4.11%
			5280	4.556	37.357	4.737	35.894	-3.82%	4.08%
			5290	4.569	37.340	4.748	35.883	-3.77%	4.06%
			5300	4.583	37.328	4.758	35.871	-3.69%	4.06%
			5310	4.593	37.306	4.768	35.860	-3.67%	4.03%
			5320	4.601	37.286	4.778	35.849	-3.70%	4.01%
			5500	4.806	36.969	4.963	35.643	-3.16%	3.72%
			5510	4.817	36.952	4.973	35.632	-3.14%	3.70%
			5520	4.827	36.931	4.983	35.620	-3.13%	3.68%
			5530	4.839	36.905	4.994	35.609	-3.10%	3.64%
			5540	4.851	36.877	5.004	35.597	-3.06%	3.60%
			5550	4.862	36.864	5.014	35.586	-3.03%	3.59%
			5560	4.874	36.859	5.024	35.574	-2.99%	3.61%
			5580	4.899	36.828	5.045	35.551	-2.89%	3.59%
			5600	4.924	36.795	5.065	35.529	-2.78%	3.56%
			5610	4.938	36.778	5.076	35.518	-2.72%	3.55%
			5620	4.950	36.762	5.086	35.506	-2.67%	3.54%
			5640	4.969	36.726	5.106	35.483	-2.68%	3.50%
			5660	4.989	36.679	5.127	35.460	-2.69%	3.44%
			5670	5.004	36.665	5.137	35.449	-2.59%	3.43%
			5680	5.018	36.658	5.147	35.437	-2.51%	3.45%
			5690	5.031	36.644	5.158	35.426	-2.46%	3.44%
			5700	5.042	36.634	5.168	35.414	-2.44%	3.44%
			5710	5.054	36.618	5.178	35.403	-2.39%	3.43%
			5720	5.065	36.600	5.188	35.391	-2.37%	3.42%
			5745	5.088	36.545	5.214	35.363	-2.42%	3.34%
			5750	5.092	36.538	5.219	35.357	-2.43%	3.34%
			5755	5.097	36.535	5.224	35.351	-2.43%	3.35%
			5765	5.109	36.520	5.234	35.340	-2.39%	3.34%
			5775	5.122	36.511	5.245	35.329	-2.35%	3.35%
			5785	5.137	36.492	5.255	35.317	-2.25%	3.33%
			5795	5.151	36.476	5.265	35.305	-2.17%	3.32%
			5800	5.158	36.461	5.270	35.300	-2.13%	3.29%
			5805	5.166	36.447	5.275	35.294	-2.07%	3.27%
			5825	5.189	36.410	5.296	35.271	-2.02%	3.23%
			5835	5.198	36.393	5.305	35.230	-2.02%	3.30%
			5845	5.206	36.377	5.315	35.210	-2.05%	3.31%
			5850	5.209	36.364	5.320	35.200	-2.09%	3.31%
			5855	5.214	36.356	5.325	35.197	-2.08%	3.29%
			5865	5.224	36.338	5.336	35.190	-2.10%	3.26%
			5875	5.237	36.322	5.347	35.183	-2.06%	3.24%
			5885	5.253	36.311	5.357	35.177	-1.94%	3.22%
			5905	5.281	36.286	5.379	35.163	-1.82%	3.19%
			5935	5.252	35.042	5.411	35.143	-2.94%	-0.29%
			5970	5.292	34.983	5.448	35.120	-2.86%	-0.39%
			5985	5.311	34.957	5.464	35.110	-2.80%	-0.44%
			6000	5.333	34.915	5.480	35.100	-2.68%	-0.53%
			6025	5.365	34.874	5.510	35.070	-2.58%	-0.56%
			6065	5.410	34.811	5.557	35.022	-2.65%	-0.60%
			6075	5.420	34.794	5.569	35.010	-2.68%	-0.62%
			6085	5.431	34.775	5.580	34.998	-2.67%	-0.65%
			6185	5.556	34.598	5.698	34.878	-2.49%	-0.80%
			6275	5.684	34.409	5.805	34.770	-2.08%	-1.04%
			6285	5.692	34.397	5.816	34.758	-2.13%	-1.04%
			6305	5.700	34.369	5.840	34.734	-2.26%	-1.05%
			6345	5.755	34.295	5.887	34.686	-2.24%	-1.13%
			6475	5.920	34.082	6.041	34.630	-2.00%	-1.30%
			6485	5.932	34.064	6.052	34.618	-1.98%	-1.32%
			6500	5.949	34.022	6.070	34.500	-1.99%	-1.39%
			6505	5.955	34.008	6.076	34.494	-1.99%	-1.41%
			6545	6.003	33.899	6.122	34.446	-1.94%	-1.59%
			6665	6.156	33.687	6.265	34.302	-1.74%	-1.79%
			6675	6.171	33.686	6.273	34.290	-1.63%	-1.76%
			6685	6.186	33.679	6.285	34.278	-1.58%	-1.75%
			6715	6.221	33.634	6.319	34.242	-1.55%	-1.78%
			6785	6.294	33.507	6.400	34.158	-1.66%	-1.91%
			6825	6.337	33.436	6.447	34.110	-1.71%	-1.98%
			6965	6.526	33.165	6.633	33.918	-1.61%	-2.22%
			6995	6.534	33.160	6.644	33.906	-1.66%	-2.20%
			7000	6.539	33.159	6.650	33.900	-1.67%	-2.19%
			7005	6.545	33.156	6.656	33.894	-1.67%	-2.17%
			7025	6.565	33.140	6.680	33.870	-1.72%	-2.16%
			7500	7.127	32.304	7.240	33.300	-1.56%	-2.93%
			7980	7.704	31.436	7.816	32.724	-1.43%	-3.94%
6/4/2025	6000 Head	19.5	5935	5.252	35.042	5.411	35.143	-2.94%	-0.29%
			5970	5.292	34.983	5.448	35.120	-2.86%	-0.39%
			5985	5.311	34.957	5.464	35.110	-2.80%	-0.44%
			6000	5.333	34.915	5.480	35.100	-2.68%	-0.53%
			6025	5.365	34.874	5.510	35.070	-2.58%	-0.56%
			6065	5.410	34.811	5.557	35.022	-2.65%	-0.60%
			6075	5.420	34.794	5.569	35.010	-2.68%	-0.62%
			6085	5.431	34.775	5.580	34.998	-2.67%	-0.65%
			6185	5.556	34.598	5.698	34.878	-2.49%	-0.80%
			6275	5.684	34.409	5.805	34.770	-2.08%	-1.04%
			6285	5.692	34.397	5.816	34.758	-2.13%	-1.04%
			6305	5.700	34.369	5.840	34.734	-2.26%	-1.05%
			6345	5.755	34.295	5.887	34.686	-2.24%	-1.13%
			6475	5.920	34.082	6.041	34.630	-2.00%	-1.30%
			6485	5.932	34.064	6.052	34.618	-1.98%	-1.32%
			6500	5.949	34.022	6.070	34.500	-1.99%	-1.39%
			6505	5.955	34.008	6.076	34.494	-1.99%	-1.41%
			6545	6.003	33.899	6.122	34.446	-1.94%	-1.59%
			6665	6.156	33.687	6.265	34.302	-1.74%	-1.79%
			6675	6.171	33.686	6.273	34.290	-1.63%	-1.76%
			6685	6.186	33.679	6.285	34.278	-1.58%	-1.75%
			6715	6.221	33.634	6.319	34.242	-1.55%	-1.78%
			6785	6.294	33.507	6.400	34.158	-1.66%	-1.91%
			6825	6.337	33.436	6.447	34.110	-1.71%	-1.98%
			6965	6.526	33.165	6.633	33.918	-1.61%	-2.22%
			6995	6.534	33.160	6.644	33.906	-1.66%	-2.20%
			7000	6.539	33.159	6.650	33.900	-1.67%	-2.19%
			7005	6.545	33.156	6.656	33.894	-1.67%	-2.17%
			7025	6.565	33.140	6.680	33.870	-1.72%	-2.16%
			7500	7.127	32.304	7.240	33.300	-1.56%	-2.93%
			7980	7.704	31.436	7.816	32.724	-1.43%	-3.94%

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 (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	07/17/2025	21.3	23.0	1.00	1004	3746	1237	0.597	0.575	0.597	3.83%	0.366	0.355	0.366	3.10%				
AM1	750	HEAD	05/17/2025	22.4	20.6	0.20	1057	7357	1582	1.800	8.800	9.000	2.27%	1.200	5.730	6.000	4.71%				
AM1	750	HEAD	05/22/2025	23.1	20.3	0.20	1097	7357	1582	1.680	8.270	8.400	1.57%	1.120	5.380	5.600	4.09%				
AM1	750	HEAD	05/25/2025	22.0	20.6	0.20	1097	7357	1582	1.580	8.270	7.900	-4.47%	1.050	5.380	5.250	-2.42%				
AM1	750	HEAD	05/30/2025	21.8	20.6	0.20	1097	7357	1582	1.730	8.270	8.650	4.59%	1.150	5.380	5.750	6.88%				
AM1	750	HEAD	06/03/2025	21.8	20.5	0.20	1057	7357	1582	1.780	8.800	8.500	-3.41%	1.130	5.730	5.650	-1.40%				
AM1	750	HEAD	06/19/2025	22.6	20.6	0.20	1057	7357	1582	1.740	8.800	8.700	-1.14%	1.150	5.730	5.750	0.35%				
AM6	750	HEAD	07/20/2025	21.1	21.0	0.20	1057	7682	1683	1.780	8.800	8.900	1.14%	1.180	5.730	5.900	2.97%				
AM12	835	HEAD	05/21/2025	21.2	21.3	0.20	4d1040	7427	1408	2.000	9.590	10.000	4.28%	1.310	6.250	6.550	4.80%				
AM12	835	HEAD	05/27/2025	21.4	19.7	0.20	4d108	7427	1408	2.030	9.800	10.150	3.57%	1.340	6.340	6.700	5.68%				
AM12	835	HEAD	06/11/2025	21.9	20.6	0.20	4d108	7427	1408	2.020	9.800	10.100	3.06%	1.330	6.340	6.650	4.89%				
AM13	1750	HEAD	05/16/2025	22.0	20.0	0.10	1040	7421	604	3.800	36.400	38.000	4.40%	2.050	19.100	20.500	7.33%				
AM7	1750	HEAD	07/17/2025	22.5	20.0	0.10	1083	7490	1644	3.530	36.500	36.300	-3.29%	1.890	19.400	18.900	-2.58%				
AM15	1900	HEAD	05/21/2025	21.5	22.2	0.10	5d131	7638	467	3.840	38.800	38.400	-3.52%	1.980	20.900	19.800	-5.26%				
AM15	1900	HEAD	05/27/2025	20.4	20.3	0.10	5d131	7638	467	3.850	38.800	38.600	-3.02%	2.000	20.900	20.000	-4.31%				
AM10	2300	HEAD	05/20/2025	23.0	19.4	0.10	1038	3837	793	4.680	49.100	46.800	-4.68%	2.270	23.700	22.700	-4.22%				
AM10	2300	HEAD	06/17/2025	20.8	19.4	0.10	1038	3837	793	4.810	49.100	48.100	-2.04%	2.330	23.700	23.300	-1.69%				
AM13	2450	HEAD	06/07/2025	21.6	20.0	0.10	750	7421	604	5.310	53.300	53.100	-0.38%	2.500	25.100	25.000	-0.40%				
AM10	2450	HEAD	06/11/2025	20.6	19.6	0.10	921	3837	793	5.130	52.200	51.300	-1.72%	2.410	24.300	24.100	-0.82%				
AM16	2450	HEAD	06/16/2025	22.0	23.4	0.10	750	7532	501	5.430	53.300	54.300	1.88%	2.480	25.100	24.800	-1.20%				
AM16	2450	HEAD	07/22/2025	22.5	23.4	0.10	855	7532	501	5.310	52.400	53.100	1.34%	2.410	24.600	24.100	-2.03%				
AM10	2600	HEAD	06/02/2025	22.1	19.3	0.10	1069	3837	793	5.400	56.200	54.000	-3.91%	2.460	25.500	24.600	-3.53%				
AM13	2600	HEAD	06/05/2025	21.9	19.0	0.10	1042	7421	604	5.450	54.900	54.500	-0.73%	2.480	24.500	24.800	1.22%				
AM13	2600	HEAD	06/07/2025	21.6	20.0	0.10	1042	7421	604	5.360	54.900	53.600	-2.37%	2.440	24.500	24.400	-0.41%				
AM10	2800	HEAD	06/11/2025	20.6	19.6	0.10	1089	3837	793	5.350	56.200	53.500	-4.80%	2.420	25.500	24.300	-4.71%				
AM6	3500	HEAD	05/26/2025	22.3	20.5	0.10	1055	7639	1403	6.320	66.000	63.200	-4.24%	2.380	24.900	23.800	-4.42%				
AM6	3500	HEAD	06/04/2025	19.9	19.6	0.10	1055	7682	1683	6.490	66.000	64.900	1.67%	2.440	24.900	24.400	-2.01%				
AM4	3500	HEAD	07/05/2025	21.1	20.6	0.10	1055	7360	534	6.530	66.000	66.300	1.06%	2.480	24.900	24.800	-0.40%				
AM6	3500	HEAD	08/25/2025	19.5	19.0	0.10	1126	7682	1683	6.950	66.200	69.500	4.98%	2.640	26.400	26.400	5.60%				
AM6	3700	HEAD	05/26/2025	22.3	20.5	0.10	1002	7639	1403	6.430	67.900	64.300	-5.30%	2.340	24.700	23.400	-5.26%				
AM6	3700	HEAD	06/04/2025	19.9	19.6	0.10	1002	7682	1683	6.750	67.900	67.500	-0.59%	2.460	24.700	24.600	-0.40%				
AM4	3700	HEAD	07/05/2025	21.1	20.6	0.10	1002	7360	534	6.800	67.900	68.000	0.15%	2.510	24.700	25.100	1.62%				
AM6	3700	HEAD	08/25/2025	19.5	19.0	0.10	1002	7682	1683	7.140	67.900	71.400	5.15%	2.630	24.700	26.300	6.48%				
AM6	3900	HEAD	05/26/2025	22.3	20.5	0.10	1062	7639	1403	6.770	68.700	67.700	-1.46%	2.360	24.100	23.600	-2.07%				
AM6	3900	HEAD	06/04/2025	19.9	19.6	0.10	1062	7682	1683	6.920	68.700	69.200	0.73%	2.400	24.100	24.000	-0.41%				
AM9	5250	HEAD	07/19/2025	20.5	19.0	0.05	1163	7782	1646	3.740	78.800	74.800	-5.08%	1.080	22.300	21.600	-3.14%				
AM9	5250	HEAD	07/29/2025	20.8	19.5	0.05	1066	7782	1646	4.100	77.900	82.000	5.26%	1.180	22.500	23.600	4.89%				
AM9	5600	HEAD	07/19/2025	20.5	19.0	0.05	1163	7782	1646	4.280	80.900	85.600	5.81%	1.210	23.000	24.200	5.22%				
AM9	5600	HEAD	07/29/2025	20.8	19.5	0.05	1066	7782	1646	4.020	81.800	80.400	-1.71%	1.140	23.700	22.800	-3.80%				
AM9	5750	HEAD	07/19/2025	20.5	19.0	0.05	1163	7782	1646	3.870	78.100	77.400	-0.90%	1.110	22.100	22.200	0.45%				
AM9	5750	HEAD	07/29/2025	20.8	19.5	0.05	1066	7782	1646	4.230	80.700	84.600	4.83%	1.200	23.200	24.000	3.45%				
AM9	5850	HEAD	07/19/2025	20.5	19.0	0.05	1163	7782	1646	4.040	79.800	80.800	1.25%	1.140	22.500	22.800	1.33%				
AM9	5850	HEAD	07/29/2025	20.8	19.5	0.05	1066	7782	1646	3.770	77.400	75.400	-2.58%	1.060	22.200	21.200	-4.50%				
AM2	6500	HEAD	06/04/2025	21.6	21.0	0.03	1019	3949	1684	7.850	300.000	314.000	4.67%	1.440	55.100	57.600	4.54%	34.9	1340	1396	4.18%

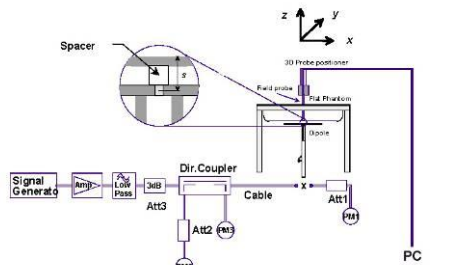


Figure 9-1
System Verification Setup Diagram



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.

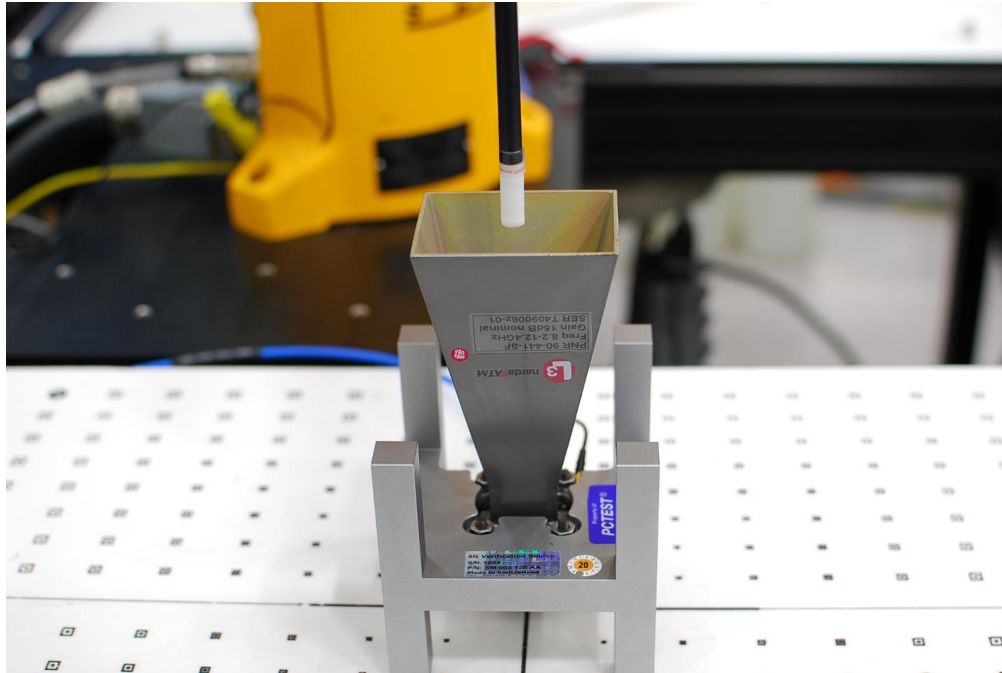


Figure 9-3
System Verification Setup Photo

Table 9-3
10 GHz Verification Results

System	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	07/24/2025	1006	1402	9407	93.3	56.40	57.90	-0.114	56.50	58.10	-0.121
AM5	10	08/05/2025	1006	1402	9407	93.3	52.80	57.90	-0.400	53.10	58.10	-0.391

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)	Plot #
Body	UMTS 850	RMC	1	N3L7H	1:1	-0.03	826.40	4132	23.90	23.20	Back	5	0.798	0.461	1.175	0.938	0.542	0.586	
Body	UMTS 850	RMC	1	N3L7H	1:1	-0.05	836.60	4183	23.90	23.14	Back	5	0.799	0.461	1.191	0.952	0.549	0.595	
Body	UMTS 850	RMC	1	N3L7H	1:1	0.00	846.60	4233	23.90	23.02	Back	5	0.770	0.443	1.225	0.943	0.543	0.589	
Body	UMTS 850	RMC	1	N3L7H	1:1	-0.01	826.40	4132	23.90	23.20	Top	5	0.018	0.012	1.175	0.021	0.014	0.013	
Body	UMTS 850	RMC	1	N3L7H	1:1	0.01	826.40	4132	23.90	23.20	Bottom	5	0.722	0.410	1.175	0.848	0.482	0.530	
Body	UMTS 850	RMC	1	N3L7H	1:1	0.00	836.60	4183	23.90	23.14	Bottom	5	0.777	0.437	1.191	0.925	0.520	0.578	
Body	UMTS 850	RMC	1	N3L7H	1:1	0.01	846.60	4233	23.90	23.02	Bottom	5	0.809	0.444	1.225	0.964	0.544	0.615	A1
Body	UMTS 850	RMC	1	N3L7H	1:1	-0.02	826.40	4132	23.90	23.20	Right	5	0.032	0.020	1.175	0.038	0.024	0.024	
Body	UMTS 850	RMC	1	N3L7H	1:1	-0.04	826.40	4132	23.90	23.20	Left	5	0.237	0.149	1.175	0.278	0.175	0.174	
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	N3L7H	1:1	-0.03	836.40	4132	24.20	23.68	Back	5	0.686	0.415	1.127	0.773	0.468	0.483	
Body	UMTS 850	RMC	3	N3L7H	1:1	-0.01	836.60	4183	24.20	23.64	Back	5	0.728	0.437	1.138	0.828	0.497	0.518	
Body	UMTS 850	RMC	3	N3L7H	1:1	-0.01	846.60	4233	24.20	23.65	Back	5	0.720	0.430	1.135	0.817	0.488	0.511	
Body	UMTS 850	RMC	3	N3L7H	1:1	0.00	826.40	4132	24.20	23.68	Top	5	0.717	0.418	1.127	0.808	0.471	0.505	
Body	UMTS 850	RMC	3	N3L7H	1:1	0.01	836.60	4183	24.20	23.64	Top	5	0.785	0.449	1.138	0.893	0.511	0.558	
Body	UMTS 850	RMC	3	N3L7H	1:1	0.08	846.60	4233	24.20	23.65	Top	5	0.795	0.443	1.135	0.902	0.503	0.564	
Body	UMTS 850	RMC	3	N3L7H	1:1	0.04	826.40	4132	24.20	23.68	Bottom	5	0.031	0.021	1.127	0.035	0.024	0.022	
Body	UMTS 850	RMC	3	N3L7H	1:1	-0.02	826.40	4132	24.20	23.68	Right	5	0.269	0.164	1.127	0.303	0.185	0.189	
Body	UMTS 850	RMC	3	N3L7H	1:1	0.09	826.40	4132	24.20	23.68	Left	5	0.033	0.022	1.127	0.037	0.025	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							

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)	Plot #
Body	UMTS 1750	RMC	1	MMPXY	1:1	-0.03	1732.40	1412	19.60	19.13	Back	5	0.422	0.218	1.114	0.470	0.243	0.294	
Body	UMTS 1750	RMC	1	MMPXY	1:1	0.08	1732.40	1412	19.60	19.13	Top	5	0.004	0.002	1.114	0.004	0.002	0.003	
Body	UMTS 1750	RMC	1	MMPXY	1:1	0.00	1732.40	1412	19.60	19.13	Bottom	5	0.087	0.035	1.114	0.765	0.373	0.478	
Body	UMTS 1750	RMC	1	MMPXY	1:1	0.09	1732.40	1412	19.60	19.13	Right	5	0.008	0.005	1.114	0.009	0.006	0.006	
Body	UMTS 1750	RMC	1	MMPXY	1:1	-0.09	1732.40	1412	19.60	19.13	Left	5	0.037	0.021	1.114	0.041	0.023	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							

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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1750	RMC	2b	93037	1:1	-0.05	1732.40	1412	20.50	19.80	Back	5	0.464	0.229	1.175	0.545	0.269	0.341	20.10	0.500	0.313	
Body	UMTS 1750	RMC	2b	93037	1:1	0.07	1732.40	1412	20.50	19.80	Top	5	0.010	0.006	1.175	0.012	0.007	0.008	20.10	0.010	0.006	
Body	UMTS 1750	RMC	2b	93037	1:1	-0.10	1712.40	1312	20.50	19.72	Bottom	5	0.822	0.398	1.197	0.984	0.476	0.615	20.10	0.890	0.556	
Body	UMTS 1750	RMC	2b	93037	1:1	-0.12	1732.40	1412	20.50	19.80	Bottom	5	0.891	0.434	1.175	1.047	0.510	0.654	20.10	0.950	0.594	
Body	UMTS 1750	RMC	2b	93037	1:1	0.01	1752.60	1513	20.50	19.78	Bottom	5	0.932	0.454	1.180	1.100	0.516	0.688	20.10	1.000	0.625	
Body	UMTS 1750	RMC	2b	93037	1:1	0.01	1732.40	1412	20.50	19.80	Right	5	0.067	0.018	1.175	0.079	0.045	0.049	20.10	0.070	0.044	
Body	UMTS 1750	RMC	2b	93037	1:1	0.05	1732.40	1412	20.50	19.80	Left	5	0.009	0.006	1.175	0.011	0.007	0.007	20.10	0.010	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-5 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	93037	1:1	0.00	1712.40	1312	18.00	17.56	Back	5	0.557	0.279	1.107	0.617	0.309	0.386	17.90	0.590	0.369	
Body	UMTS 1750	RMC	3	93037	1:1	-0.11	1712.40	1312	18.00	17.56	Top	5	0.840	0.408	1.107	0.930	0.452	0.581	17.90	0.890	0.556	
Body	UMTS 1750	RMC	3	93037	1:1	-0.11	1732.40	1412	18.00	17.51	Top	5	0.935	0.454	1.119	1.046	0.508	0.654	17.90	1.000	0.625	
Body	UMTS 1750	RMC	3	93037	1:1	-0.08	1752.60	1513	18.00	17.55	Top	5	0.944	0.456	1.109	1.047	0.506	0.654	17.90	1.000	0.625	
Body	UMTS 1750	RMC	3	93037	1:1	-0.16	1712.40	1312	18.00	17.56	Bottom	5	0.008	0.005	1.107	0.009	0.006	0.006	17.90	0.010	0.006	
Body	UMTS 1750	RMC	3	93037	1:1	-0.07	1712.40	1312	18.00	17.56	Right	5	0.198	0.110	1.107	0.219	0.122	0.137	17.90	0.210	0.131	
Body	UMTS 1750	RMC	3	93037	1:1	0.02	1712.40	1312	18.00	17.56	Left	5	0.000	0.000	1.107	0.000	0.000	0.000	17.90	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 10-6 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]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	UMTS 1750	RMC	4b	93037	1:1	-0.14	1712.40	1312	18.60	18.10	Back	5	0.623	0.299	1.122	0.699	0.335	0.437	18.10	0.620	0.388	
Body	UMTS 1750	RMC	4b	93037	1:1	-0.13	1712.40	1312	18.60	18.10	Top	5	1.000	0.483	1.122	1.122	0.542	0.701	18.10	1.000	0.625	A2
Body	UMTS 1750	RMC	4b	93037	1:1	-0.08	1732.40	1412	18.60	18.02	Top	5	0.953	0.462	1.143	1.089	0.528	0.681	18.10	0.970	0.606	
Body	UMTS 1750	RMC	4b	93037	1:1	-0.15	1752.60	1513	18.60	17.95	Top	5	0.936	0.453	1.161	1.087	0.526	0.679	18.10	0.970	0.606	
Body	UMTS 1750	RMC	4b	93037	1:1	0.05	1712.40	1312	18.60	18.10	Bottom	5	0.003	0.002	1.122	0.003	0.002	0.002	18.10	0.000	0.000	
Body	UMTS 1750	RMC	4b	93037	1:1	-0.08	1712.40	1312	18.60	18.10	Right	5	0.009	0.005	1.122	0.010	0.006	0.006	18.10	0.010	0.006	
Body	UMTS 1750	RMC	4b	93037	1:1	0.15	1712.40	1312	18.60	18.10	Left	5	0.056	0.033	1.122	0.063	0.037	0.039	18.10	0.060	0.038	
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	93037	1:1	-0.03	1852.40	9262	18.80	18.02	Back	5	0.535	0.297	1.197	0.640	0.356	0.400	18.10	0.540	0.338	
Body	UMTS 1900	RMC	1	93037	1:1	0.05	1852.40	9262	18.80	18.02	Top	5	0.009	0.004	1.197	0.011	0.005	0.007	18.10	0.010	0.006	
Body	UMTS 1900	RMC	1	93037	1:1	0.01	1852.40	9262	18.80	18.02	Bottom	5	0.982	0.470	1.197	1.175	0.563	0.734	18.10	1.000	0.625	
Body	UMTS 1900	RMC	1	93037	1:1	0.01	1880.00	9400	18.80	17.91	Bottom	5	0.896	0.431	1.227	1.099	0.529	0.687	18.10	0.940	0.588	
Body	UMTS 1900	RMC	1	93037	1:1	0.00	1907.60	9538	18.80	17.08	Bottom	5	0.735	0.353	1.294	0.951	0.457	0.594	18.10	0.810	0.506	
Body	UMTS 1900	RMC	1	93037	1:1	0.07	1852.40	9262	18.80	18.02	Right	5	0.000	0.000	1.197	0.000	0.000	0.000	18.10	0.000	0.000	
Body	UMTS 1900	RMC	1	93037	1:1	0.01	1852.40	9262	18.80	18.02	Left	5	0.295	0.156	1.197	0.353	0.187	0.221	18.10	0.300	0.188	
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 10-8 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	QNOX6	1:1	0.00	1852.40	9262	19.30	18.91	Back	5	0.579	0.274	1.094	0.633	0.300	0.396	19.20	0.610	0.381	
Body	UMTS 1900	RMC	2b	QNOX6	1:1	0.20	1852.40	9262	19.30	18.91	Top	5	0.007	0.004	1.094	0.008	0.004	0.005	19.20	0.010	0.006	
Body	UMTS 1900	RMC	2b	QNOX6	1:1	-0.01	1852.40	9262	19.30	18.91	Bottom	5	0.884	0.421	1.094	0.967	0.463	0.604	19.20	0.940	0.588	
Body	UMTS 1900	RMC	2b	QNOX6	1:1	0.01	1880.00	9400	19.30	18.79	Bottom	5	0.817	0.397	1.125	0.942	0.447	0.589	19.20	0.910	0.569	
Body	UMTS 1900	RMC	2b	QNOX6	1:1	-0.01	1907.60	9538	19.30	18.71	Bottom	5	0.900	0.431	1.146	1.031	0.494	0.644	19.20	1.000	0.625	
Body	UMTS 1900	RMC	2b	QNOX6	1:1	0.00	1852.40	9262	19.30	18.91	Right	5	0.049	0.027	1.094	0.054	0.030	0.034	19.20	0.050	0.031	
Body	UMTS 1900	RMC	2b	QNOX6	1:1	-0.01	1852.40	9262	19.30	18.91	Left	5	0.009	0.006	1.094	0.010	0.007	0.006	19.20	0.010	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-9 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	93037	1:1	-0.02	1852.40	9262	17.50	17.12	Back	5	0.507	0.247	1.091	0.553	0.269	0.346	17.20	0.510	0.319	
Body	UMTS 1900	RMC	3	93037	1:1	-0.01	1852.40	9262	17.50	17.12	Top	5	0.993	0.451	1.091	1.040	0.492	0.650	17.20	0.970	0.606	
Body	UMTS 1900	RMC	3	93037	1:1	-0.01	1880.00	9400	17.50	16.97	Top	5	0.949	0.449	1.130	1.072	0.507	0.670	17.20	1.000	0.625	
Body	UMTS 1900	RMC	3	93037	1:1	0.01	1907.60	9538	17.50	16.93	Top	5	0.945	0.450	1.140	1.077	0.513	0.673	17.20	1.000	0.625	
Body	UMTS 1900	RMC	3	93037	1:1	-0.13	1852.40	9262	17.50	17.12	Bottom	5	0.008	0.005	1.091	0.009	0.005	0.006	17.20	0.010	0.006	
Body	UMTS 1900	RMC	3	93037	1:1	-0.02	1852.40	9262	17.50	17.12	Right	5	0.157	0.089	1.091	0.171	0.097	0.107	17.20	0.160	0.100	
Body	UMTS 1900	RMC	3	93037	1:1	0.03	1852.40	9262	17.50	17.12	Left	5	0.000	0.000	1.091	0.000	0.000	0.000	17.20	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									

FCC ID: BCGA3358

RF EXPOSURE REPORT

Approved by:
Technical ManagerDUT Type:
Tablet Device

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REV 25.0
10/16/2024

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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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1900	RMC	4b	93037	1:1	0.01	1852.40	9262	19.30	19.21	Back	5	0.712	0.337	1.021	0.727	0.344	0.454	18.60	0.610	0.381	
Body	UMTS 1900	RMC	4b	93037	1:1	-0.01	1852.40	9262	19.30	19.21	Top	5	1.090	0.526	1.021	1.113	0.537	0.696	18.60	0.940	0.588	
Body	UMTS 1900	RMC	4b	93037	1:1	0.00	1880.00	9400	19.30	19.10	Top	5	1.130	0.545	1.047	1.183	0.571	0.739	18.60	1.000	0.625	A3
Body	UMTS 1900	RMC	4b	93037	1:1	-0.01	1880.00	9400	19.30	19.10	Top	5	1.030	0.517	1.047	1.078	0.536	0.674	18.60	0.930	0.569	
Body	UMTS 1900	RMC	4b	93037	1:1	-0.02	1907.60	9538	19.30	18.84	Top	5	1.050	0.504	1.112	1.168	0.560	0.730	18.60	0.990	0.619	
Body	UMTS 1900	RMC	4b	93037	1:1	0.06	1852.40	9262	19.30	19.21	Bottom	5	0.013	0.007	1.021	0.013	0.007	0.008	18.60	0.010	0.006	
Body	UMTS 1900	RMC	4b	93037	1:1	-0.20	1852.40	9262	19.30	19.21	Right	5	0.009	0.005	1.021	0.009	0.005	0.006	18.60	0.010	0.006	
Body	UMTS 1900	RMC	4b	93037	1:1	0.06	1852.40	9262	19.30	19.21	Left	5	0.055	0.031	1.021	0.056	0.032	0.035	18.60	0.050	0.031	
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

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	GYQ4V	1:1	-0.02	680.50	133297	0.0	24.70	23.62	1	50	Back	5	0.541	0.312	1.282	0.694	0.400	0.434	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.03	680.50	133297	1.0	23.70	22.97	50	50	Back	5	0.504	0.294	1.183	0.596	0.348	0.373	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	-0.02	680.50	133297	0.0	24.70	23.62	1	50	Top	5	0.026	0.014	1.282	0.033	0.018	0.021	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.03	680.50	133297	1.0	23.70	22.97	50	50	Top	5	0.025	0.014	1.183	0.030	0.017	0.019	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.09	680.50	133297	0.0	24.70	23.62	1	50	Bottom	5	0.647	0.382	1.282	0.829	0.490	0.518	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.00	680.50	133297	1.0	23.70	22.97	50	50	Bottom	5	0.581	0.342	1.183	0.687	0.405	0.429	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.00	680.50	133297	1.0	23.70	22.96	100	0	Bottom	5	0.519	0.309	1.186	0.616	0.366	0.385	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	-0.04	680.50	133297	0.0	24.70	23.62	1	50	Right	5	0.037	0.025	1.282	0.047	0.032	0.029	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.02	680.50	133297	1.0	23.70	22.97	50	50	Right	5	0.039	0.027	1.183	0.046	0.032	0.029	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	-0.04	680.50	133297	0.0	24.70	23.62	1	50	Left	5	0.157	0.099	1.282	0.201	0.127	0.126	
Body	LTE Band 71	20	QPSK	1	GYQ4V	1:1	0.00	680.50	133297	1.0	23.70	22.97	50	50	Left	5	0.168	0.097	1.183	0.199	0.115	0.124	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak Uncontrolled Exposure/General Population																							

Table 10-12 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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.00	680.50	133297	0.0	24.50	24.21	1	50	Back	5	1.080	0.598	1.069	1.155	0.639	0.722	23.80	0.970	0.606	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.00	680.50	133297	0.0	24.50	24.09	50	25	Back	5	1.060	0.587	1.069	1.045	0.645	0.748	23.80	0.980	0.613	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	-0.01	680.50	133297	0.0	24.50	24.07	100	0	Back	5	1.080	0.598	1.054	1.082	0.660	0.745	23.80	1.000	0.625	A4
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.00	680.50	133297	0.0	24.50	24.21	1	50	Top	5	0.874	0.510	1.069	0.934	0.545	0.584	23.80	0.780	0.488	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.00	680.50	133297	0.0	24.50	24.09	50	25	Top	5	0.900	0.517	1.069	0.989	0.568	0.618	23.80	0.830	0.519	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.01	680.50	133297	0.0	24.50	24.07	100	0	Top	5	0.824	0.512	1.064	1.020	0.587	0.638	23.80	0.860	0.538	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.05	680.50	133297	0.0	24.50	24.21	1	50	Bottom	5	0.019	0.013	1.069	0.024	0.016	0.015	23.80	0.020	0.013	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.09	680.50	133297	0.0	24.50	24.09	50	25	Bottom	5	0.019	0.013	1.069	0.021	0.014	0.013	23.80	0.020	0.013	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	-0.05	680.50	133297	0.0	24.50	24.21	1	50	Right	5	0.268	0.161	1.069	0.281	0.177	0.176	23.80	0.240	0.150	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.03	680.50	133297	0.0	24.50	24.09	50	25	Right	5	0.208	0.096	1.069	0.073	0.049	0.046	23.80	0.060	0.038	
Body	LTE Band 71	20	QPSK	3	N3L7H	1:1	0.04	680.50	133297	0.0	24.50	24.09	50	25	Left	5	0.064	0.043	1.069	0.070	0.047	0.044	23.80	0.060	0.038	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram														
Spatial Peak Uncontrolled Exposure/General Population																										

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)	Plot #
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	-0.01	707.50	23095	0.0	24.70	23.92	1	0	Back	5	0.786	0.446	1.197	0.941	0.534	0.588	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	-0.01	707.50	23095	1.0	23.70	23.45	25	25	Back	5	0.714	0.406	1.059	0.756	0.430	0.473	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	0.00	707.50	23095	1.0	23.70	23.44	50	0	Back	5	0.715	0.406	1.062	0.759	0.431	0.474	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	0.06	707.50	23095	0.0	24.70	23.92	1	0	Top	5	0.091	0.021	1.197	0.043	0.025	0.027	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	-0.07	707.50	23095	1.0	23.70	23.45	25	25	Top	5	0.031	0.022	1.059	0.033	0.023	0.021	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	0.01	707.50	23095	0.0	24.70	23.92	1	0	Bottom	5	0.719	0.420	1.197	0.861	0.503	0.538	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	0.01	707.50	23095	1.0	23.70	23.45	25	25	Bottom	5	0.654	0.384	1.059	0.693	0.407	0.433	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	0.01	707.50	23095	1.0	23.70	23.44	50	0	Bottom	5	0.659	0.387	1.062	0.700	0.411	0.438	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	-0.05	707.50	23095	0.0	24.70	23.92	1	0	Right	5	0.068	0.048	1.197	0.081	0.057	0.051	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	-0.02	707.50	23095	1.0	23.70	23.45	25	25	Right	5	0.054	0.037	1.059	0.057	0.039	0.036	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	-0.08	707.50	23095	0.0	24.70	23.92	1	0	Left	5	0.257	0.161	1.197	0.308	0.193	0.193	
Body	LTE Band 12	10	QPSK	1	65W9G	1:1	0.01	707.50	23095	1.0	23.70	23.45	25	25	Left	5	0.219	0.137	1.059	0.232	0.145	0.145	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																							

Table 10-14 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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	-0.04	707.50	23095	0.0	25.00	24.28	1	0	Back	5	0.833	0.475	1.180	0.983	0.561	0.614	24.80	0.920	0.575	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.05	707.50	23095	0.3	24.70	24.12	25	0	Back	5	0.810	0.461	1.143	0.926	0.527	0.579	24.50	0.870	0.544	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.03	707.50	23095	0.3	24.70	24.50	50	0	Back	5	0.816	0.460	1.102	0.981	0.560	0.623	24.50	0.920	0.575	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	-0.01	707.50	23095	0.0	25.00	24.28	1	0	Top	5	0.904	0.531	1.180	1.067	0.627	0.667	24.80	1.000	0.625	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.01	707.50	23095	0.3	24.70	24.12	25	0	Top	5	0.868	0.511	1.143	0.992	0.584	0.620	24.50	0.930	0.581	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	-0.04	707.50	23095	0.3	24.70	23.90	50	0	Top	5	0.804	0.464	1.203	0.966	0.582	0.604	24.50	0.900	0.569	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.03	707.50	23095	0.0	25.00	24.28	1	0	Bottom	5	0.033	0.038	1.180	0.039	0.021	0.024	24.80	0.040	0.025	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.08	707.50	23095	0.3	24.70	24.12	25	0	Bottom	5	0.026	0.024	1.143	0.030	0.016	0.019	24.50	0.030	0.019	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.00	707.50	23095	0.0	25.00	24.28	1	0	Right	5	0.221	0.245	1.180	0.361	0.171	0.183	24.80	0.240	0.160	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	0.06	707.50	23095	0.3	24.70	24.12	25	0	Right	5	0.199	0.127	1.143	0.227	0.145	0.142	24.50	0.210	0.131	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	-0.10	707.50	23095	0.0	25.00	24.28	1	0	Left	5	0.039	0.025	1.180	0.046	0.030	0.029	24.80	0.040	0.025	
Body	LTE Band 12	10	QPSK	3	GY04V	1:1	-0.19	707.50	23095	0.3	24.70	24.12	25	0	Left	5	0.030	0.020	1.143	0.034	0.022	0.021	24.50	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										

10.6 LTE Band 13 Standalone SAR

Table 10-15 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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	0.00	782.00	23230	0.0	24.30	23.82	1	0	Back	5	1.260	0.520	1.117	1.184	0.617	0.740	23.60	1.000	0.625	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.01	782.00	23230	0.6	23.70	23.64	25	0	Back	5	0.707	0.396	1.004	0.717	0.402	0.448	23.00	0.610	0.381	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	0.02	782.00	23230	0.6	23.70	23.49	50	0	Back	5	0.603	0.345	1.050	0.633	0.362	0.396	23.00	0.530	0.331	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.17	782.00	23230	0.0	24.30	23.82	1	0	Top	5	0.035	0.021	1.117	0.039	0.026	0.024	23.60	0.030	0.019	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	0.08	782.00	23230	0.6	23.70	23.64	25	0	Top	5	0.034	0.021	1.004	0.034	0.021	0.021	23.00	0.030	0.019	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.02	782.00	23230	0.0	24.30	23.82	1	0	Bottom	5	0.039	0.361	1.117	0.714	0.403	0.446	23.60	0.600	0.375	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.04	782.00	23230	0.6	23.70	23.64	25	0	Bottom	5	0.606	0.340	1.004	0.614	0.345	0.381	23.00	0.520	0.325	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.16	782.00	23230	0.0	24.30	23.82	1	0	Right	5	0.037	0.024	1.117	0.041	0.027	0.026	23.60	0.030	0.019	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.08	782.00	23230	0.6	23.70	23.64	25	0	Right	5	0.035	0.022	1.004	0.035	0.022	0.022	23.00	0.030	0.019	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.09	782.00	23230	0.0	24.30	23.82	1	0	Left	5	0.384	0.121	1.117	0.317	0.124	0.136	23.60	0.180	0.111	
Body	LTE Band 13	10	QPSK	1	N3L7H	1:1	-0.11	782.00	23230	0.6	23.70	23.64	25	0	Left	5	0.191	0.109	1.004	0.184	0.111	0.121	23.00	0.160	0.100	
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 10-16 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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.01	782.00	23230	0.0	23.50	22.94	1	49	Back	5	0.836	0.470	1.138	0.951	0.535	0.594	23.40	0.920	0.575	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.01	782.00	23230	0.0	23.50	22.93	25	25	Back	5	0.837	0.470	1.140	0.954	0.536	0.596	23.40	0.920	0.575	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.01	782.00	23230	0.0	23.50	22.95	50	0	Back	5	0.891	0.489	1.161	1.034	0.578	0.646	23.40	1.000	0.625	
Body	LTE Band 13	10	QPSK	3	93037	1:1	0.08	782.00	23230	0.0	23.50	22.94	1	49	Top	5	0.755	0.454	1.138	0.859	0.517	0.537	23.40	0.830	0.519	
Body	LTE Band 13	10	QPSK	3	93037	1:1	0.04	782.00	23230	0.0	23.50	22.94	25	25	Top	5	0.724	0.440	1.140	0.857	0.502	0.523	23.40	0.810	0.506	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.01	782.00	23230	0.0	23.50	22.95	50	0	Top	5	0.762	0.465	1.161	0.861	0.517	0.538	23.40	0.830	0.519	
Body	LTE Band 13	10	QPSK	3	93037	1:1	0.07	782.00	23230	0.0	23.50	22.94	1	49	Bottom	5	0.041	0.023	1.138	0.047	0.026	0.029	23.40	0.050	0.031	
Body	LTE Band 13	10	QPSK	3	93037	1:1	0.07	782.00	23230	0.0	23.50	22.94	25	25	Bottom	5	0.054	0.024	1.140	0.058	0.022	0.024	23.40	0.040	0.025	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.06	782.00	23230	0.0	23.50	22.94	1	49	Right	5	0.056	0.025	1.138	0.023	0.010	0.019	23.40	0.020	0.013	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.02	782.00	23230	0.0	23.50	22.93	25	25	Right	5	0.387	0.133	1.140	0.313	0.131	0.133	23.40	0.210	0.131	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.03	782.00	23230	0.0	23.50	22.94	1	49	Left	5	0.029	0.024	1.138	0.041	0.027	0.028	23.40	0.040	0.025	
Body	LTE Band 13	10	QPSK	3	93037	1:1	-0.03	782.00	23230	0.0	23.50	22.93	25	25	Left	5	0.033	0.022	1.140	0.038	0.025	0.024	23.40	0.040	0.025	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Body										
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)										
																averaged over 1 gram										

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 #	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	LTE Band 14	10	QPSK	1	GY04V	1:1	0.00	793.00	23330	0.0	24.30	23.30	1	25	Back	5	0.851	0.486	1.259	1.071	0.612	0.669	24.10	1.000	0.625			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	-0.01	793.00	23330	0.6	23.70	23.12	25	0	Back	5	0.742	0.439	1.180	0.836	0.496	0.524	23.50	0.789	0.468			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	-0.15	793.00	23330	0.6	23.70	23.16	50	0	Back	5	0.776	0.460	1.122	0.878	0.521	0.549	22.50	0.640	0.513			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.11	793.00	23330	0.0	24.30	23.30	1	25	Top	5	0.901	0.490	1.260	1.062	0.645	0.699	24.10	1.000	0.560			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.08	793.00	23330	0.8	23.70	23.12	25	0	Top	5	0.645	0.012	1.130	0.051	0.036	0.042	23.50	0.590	0.031			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	-0.02	793.00	23330	0.6	23.70	23.16	50	0	Bottom	5	0.645	0.012	1.130	0.051	0.036	0.042	23.50	0.590	0.031			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.02	793.00	23330	0.6	23.70	23.12	25	0	Bottom	5	0.666	0.394	1.140	0.733	0.445	0.471	23.50	0.700	0.438			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.04	793.00	23330	0.6	23.70	23.16	50	0	Bottom	5	0.601	0.828	1.132	0.782	0.462	0.489	23.50	0.730	0.456			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.01	793.00	23330	0.0	24.30	23.30	1	25	Right	5	0.812	0.460	1.260	1.062	0.645	0.699	24.10	1.000	0.510			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.00	793.00	23330	0.6	23.70	23.12	25	0	Right	5	0.680	0.030	1.130	0.034	0.023	0.031	23.50	0.530	0.019			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	-0.02	793.00	23330	0.0	24.30	23.30	1	25	Left	5	0.295	0.177	1.259	0.373	0.223	0.232	24.10	0.330	0.239			
Body	LTE Band 14	10	QPSK	1	GY04V	1:1	0.04	793.00	23330	0.6	23.70	23.12	25	0	Left	5	0.273	0.172	1.260	0.304	0.180	0.193	24.10	0.290	0.181			
ANSI/IEEE C63.1-1992 - Safety Limit																Body									1.6 W/kg (avg) averaged over 1 gram			
Uncontrolled Exposure / General Population																												

Table 10-18 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 14	10	QPSK	3	93037	1:1	-0.00	793.00	23330	0.0	23.50	22.96	1	25	Back	5	1.050	0.550	1.132	1.143	0.623	0.714	23.00	1.000	0.625	A7
Body	LTE Band 14	10	QPSK	3	93037	1:1	-0.01	793.00	23330	0.0	23.50	22.97	25	12	Back	5	0.968	0.526	1.130	1.094	0.598	0.684	23.00	0.960	0.600	
Body	LTE Band 14	10	QPSK	3	93037	1:1	-0.04	793.00	23330	0.0	23.50	22.87	50	0	Back	5	0.948	0.518	1.135	1.096	0.599	0.685	23.00	0.960	0.600	
Body	LTE Band 14	10	QPSK	3	93037	1:1	-0.04	793.00	23330	0.0	23.50	22.86	1	25	Top	5	0.845	0.485	1.132	0.954	0.549	0.596	23.00	0.830	0.535	
Body	LTE Band 14	10	QPSK	3	93037	1:1	0.02	793.00	23330	0.0	23.50	22.97	25	12	Top	5	0.846	0.487	1.130	0.956	0.550	0.598	23.00	0.840	0.525	
Body	LTE Band 14	10	QPSK	3	93037	1:1	0.02	793.00	23330	0.0	23.50	22.87	50	0	Top	5	0.807	0.465	1.156	0.991	0.572	0.623	23.00	0.870	0.544	
Body	LTE Band 14	10	QPSK	3	93037	1:1	-0.02	793.00	23330	0.0	23.50	22.96	1	25	Bottom	5	0.051	0.053	1.132	0.035	0.020	0.022	23.00	0.030	0.013	
Body	LTE Band 14	10	QPSK	3	93037	1:1	-0.17	793.00	23330	0.0	23.50	22.87	25	12	Bottom	5	0.030	0.037	1.130	0.034	0.019	0.021	23.00	0.030	0.019	
Body	LTE Band 14	10	QPSK	3	93037	1:1	0.00	793.00	23330	0.0	23.50	22.96	1	25	Right	5	0.158	0.096	1.123	0.179	0.109	0.112	23.00	0.160	0.100	
Body	LTE Band 14	10	QPSK	3	93037	1:1	0.00	793.00	23330	0.0	23.50	22.97	25	12	Right	5	0.162	0.099	1.130	0.183	0.112	0.114	23.00	0.160	0.100	
Body	LTE Band 14	10	QPSK	3	93037	1:1	0.03	793.00	23330	0.0	23.50	22.96	1	25	Left	5	0.049	0.032	1.132	0.055	0.036	0.034	23.00	0.050	0.031	
Body	LTE Band 14	10	QPSK	3	93037	1:1	0.06	793.00	23330	0.0	23.50	22.97	25	12	Left	5	0.044	0.030	1.130	0.050	0.034	0.031	23.00	0.040	0.025	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

10.8 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 #	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 26	10	QPSK	1	93037	1:1	0.02	819.00	26740	0.0	23.90	23.27	1	49	Back	5	0.983	0.504	1.126	1.021	0.583	0.638	23.50	0.930	0.581	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.05	819.00	26885	0.0	23.90	23.06	1	49	Back	5	0.969	0.511	1.126	1.008	0.621	0.686	23.50	1.000	0.625	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.05	819.00	26990	0.0	23.90	23.64	1	49	Back	5	0.913	0.512	1.131	1.087	0.610	0.679	23.50	0.990	0.625	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.01	819.00	26740	0.2	23.70	23.27	25	25	Back	5	0.892	0.508	1.104	0.985	0.561	0.616	23.50	0.900	0.563	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.00	819.00	26885	0.2	23.70	23.22	25	12	Back	5	0.846	0.528	1.117	1.001	0.608	0.668	23.50	0.970	0.606	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.03	819.00	26990	0.2	23.70	23.22	25	0	Back	5	0.935	0.524	1.117	1.044	0.585	0.653	23.50	0.950	0.594	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.00	819.00	26740	0.2	23.70	23.22	50	0	Back	5	0.900	0.512	1.117	1.005	0.572	0.628	23.50	0.920	0.575	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.19	819.00	26740	0.0	23.90	23.27	1	49	Top	5	0.013	0.008	1.156	0.014	0.009	0.009	23.50	0.010	0.006	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.21	819.00	26740	0.2	23.70	23.27	25	25	Top	5	0.007	0.006	1.104	0.010	0.007	0.006	23.50	0.010	0.006	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.01	819.00	26740	0.0	23.90	23.27	1	49	Bottom	5	0.640	0.370	1.156	0.740	0.428	0.463	23.50	0.670	0.419	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.03	819.00	26740	0.2	23.70	23.27	25	25	Bottom	5	0.613	0.377	1.104	0.711	0.416	0.451	23.50	0.660	0.413	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.06	819.00	26740	0.0	23.90	23.27	1	49	Right	5	0.013	0.021	1.156	0.038	0.024	0.024	23.50	0.030	0.019	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.06	819.00	26740	0.2	23.70	23.27	25	25	Right	5	0.013	0.021	1.104	0.036	0.023	0.023	23.50	0.030	0.019	
Body	LTE Band 26	10	QPSK	1	93037	1:1	0.07	819.00	26740	0.0	23.90	23.27	1	49	Left	5	0.351	0.167	1.156	0.304	0.187	0.190	23.50	0.260	0.175	
Body	LTE Band 26	10	QPSK	1	93037	1:1	-0.01	819.00	26740	0.2	23.70	23.27	25	25	Left	5	0.260	0.158	1.104	0.287	0.174	0.179	23.50	0.260	0.163	
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 10-20 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)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.02	819.00	26740	0.0	24.20	23.79	1	0	Back	5	0.834	0.491	1.099	0.917	0.540	0.573	23.60	0.790	0.494		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.02	819.00	26885	0.0	24.20	23.51	1	0	Back	5	0.908	0.531	1.172	1.064	0.622	0.665	23.60	0.920	0.575		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.05	844.00	26990	0.0	24.20	23.55	1	25	Back	5	1.000	0.578	1.161	1.161	0.671	0.726	23.60	1.000	0.625	A8	
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.00	819.00	26740	0.0	24.20	23.78	25	12	Back	5	0.858	0.503	1.022	0.846	0.554	0.591	23.60	0.810	0.506		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	-0.01	819.00	26885	0.0	24.20	23.63	25	25	Back	5	0.818	0.485	1.140	0.933	0.553	0.583	23.60	0.800	0.500		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.02	844.00	26990	0.0	24.20	23.68	25	0	Back	5	1.000	0.579	1.127	1.127	0.653	0.704	23.60	0.920	0.606		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.00	819.00	26740	0.0	24.20	23.73	50	0	Back	5	0.857	0.509	1.114	0.955	0.560	0.597	23.60	0.820	0.513		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.00	819.00	26740	0.0	24.20	23.79	1	0	Top	5	0.750	0.438	1.099	0.824	0.481	0.515	23.60	0.710	0.444		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.02	811.50	26885	0.0	24.20	23.51	1	0	Top	5	0.814	0.487	1.172	1.054	0.547	0.586	23.60	0.820	0.513		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.11	844.00	26990	0.0	24.20	23.55	1	25	Top	5	0.896	0.497	1.161	1.040	0.577	0.609	23.60	0.900	0.563		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	-0.01	819.00	26740	0.0	24.20	23.78	25	12	Top	5	0.785	0.457	1.102	0.865	0.504	0.541	23.60	0.710	0.469		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.01	811.50	26740	0.0	24.20	23.68	25	0	Top	5	0.851	0.483	1.140	0.970	0.551	0.605	23.60	0.840	0.525		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.03	844.00	26990	0.0	24.20	23.63	25	0	Top	5	0.930	0.517	1.127	1.048	0.583	0.605	23.60	0.900	0.563		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	-0.02	819.00	26740	0.0	24.20	23.73	50	0	Top	5	0.792	0.461	1.114	0.882	0.514	0.551	23.60	0.760	0.475		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.05	819.00	26740	0.0	24.20	23.79	1	0	Bottom	5	0.023	0.013	0.019	0.025	0.016	0.016	23.60	0.020	0.013		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.04	819.00	26740	0.0	24.20	23.78	25	12	Bottom	5	0.027	0.019	1.102	0.930	0.021	0.021	0.019	0.020	0.010	0.010	
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.00	819.00	26740	0.0	24.20	23.79	1	0	Bottom	5	0.027	0.019	1.099	0.927	0.020	0.020	0.018	0.019	0.010	0.010	
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.03	819.00	26740	0.0	24.20	23.78	25	12	Left	5	0.049	0.135	1.102	0.774	0.171	0.171	23.60	0.240	0.150		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.01	819.00	26740	0.0	24.20	23.79	1	0	Left	5	0.042	0.022	1.099	0.035	0.024	0.022	23.60	0.030	0.010		
Body	LTE Band 26	10	QPSK	3	N3L7H	1:1	0.05	819.00	26740	0.0	24.20	23.78	25	12	Left	5	0.055	0.023	1.102	0.039	0.025	0.024	23.60	0.030	0.010		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																											
Spatial Peak																	Body										
Uncontrolled Exposure (General Population)																	averaged over 10g										
																	3.5 W/kg (mW/g)										

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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.02	836.50	20525	0.0	24.20	23.66	1	49	Back	5	0.946	0.548	1.132	1.071	0.620	0.669	23.50	0.910	0.569	49
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.02	836.50	20525	0.0	24.20	23.68	25	25	Back	5	0.942	0.547	1.127	1.062	0.616	0.664	23.50	0.900	0.563	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.02	836.50	20525	0.0	24.20	23.68	50	0	Back	5	0.942	0.547	1.127	1.062	0.616	0.664	23.50	0.900	0.563	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.01	836.50	20525	0.0	24.20	23.65	50	0	Back	5	1.030	0.600	1.148	1.182	0.689	0.739	23.50	1.000	0.625	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.01	836.50	20525	0.0	24.20	23.66	1	49	Top	5	0.809	0.456	1.132	0.816	0.516	0.573	23.50	0.770	0.481	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.00	836.50	20525	0.0	24.20	23.68	25	25	Top	5	0.813	0.459	1.127	0.816	0.517	0.573	23.50	0.770	0.481	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.02	836.50	20525	0.0	24.20	23.65	50	0	Top	5	0.819	0.463	1.148	0.840	0.532	0.588	23.50	0.800	0.500	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.14	836.50	20525	0.0	24.20	23.66	1	49	Bottom	5	0.027	0.014	1.132	0.025	0.016	0.016	23.50	0.020	0.013	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.12	836.50	20525	0.0	24.20	23.68	1	49	Left	5	0.036	0.027	1.132	0.041	0.027	0.026	23.50	0.030	0.019	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.06	836.50	20525	0.0	24.20	23.66	1	49	Right	5	0.267	0.163	1.132	0.302	0.187	0.189	23.50	0.260	0.163	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.03	836.50	20525	0.0	24.20	23.68	25	25	Right	5	0.296	0.185	1.127	0.344	0.208	0.209	23.50	0.280	0.175	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.17	836.50	20525	0.0	24.20	23.68	25	25	Left	5	0.036	0.023	1.132	0.041	0.026	0.026	23.50	0.030	0.019	
Body	LTE Band 5	10	QPSK	3	KH46	1:1	-0.03	836.50	20525	0.0	24.20	23.68	25	25	Left	5	0.036	0.023	1.127	0.041	0.026	0.026	23.50	0.030	0.019	
Body	LTE Band 5	5	QPSK	3	KH46	1:1	-0.06	836.50	20525	0.0	24.20	23.66	30	0	Back	5	0.955	0.579	1.132	1.126	0.655	0.704	23.50	0.950	0.594	
ANSI/IEEE C63.1 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

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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.02	1720.00	132072	0.0	19.60	19.09	1	50	Back	5	0.418	0.234	1.125	0.470	0.241	0.284	19.10	0.410	0.256	A10
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.01	1720.00	132072	0.0	19.60	19.17	50	0	Back	5	0.422	0.236	1.044	0.466	0.238	0.291	19.10	0.410	0.256	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.07	1720.00	132072	0.0	19.60	19.09	1	50	Top	5	0.003	0.002	1.125	0.003	0.002	0.002	19.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.02	1720.00	132072	0.0	19.60	19.17	50	0	Top	5	0.003	0.001	1.104	0.003	0.001	0.002	19.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.04	1720.00	132072	0.0	19.60	19.09	1	50	Bottom	5	0.715	0.351	1.125	0.804	0.395	0.561	19.10	0.700	0.438	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.05	1745.00	132322	0.0	19.60	18.94	1	50	Bottom	5	0.703	0.345	1.164	0.818	0.402	0.511	19.10	0.720	0.450	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.00	1720.00	132572	0.0	19.60	18.94	1	50	Bottom	5	0.956	0.456	1.164	1.113	0.511	0.696	19.10	0.970	0.606	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.00	1720.00	132072	0.0	19.60	19.17	50	0	Bottom	5	0.479	0.244	1.104	0.750	0.369	0.469	19.10	0.460	0.413	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.00	1745.00	132322	0.0	19.60	19.03	50	0	Bottom	5	0.799	0.348	1.140	0.808	0.397	0.505	19.10	0.710	0.444	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.00	1720.00	132572	0.0	19.60	18.99	50	0	Bottom	5	0.994	0.474	1.111	1.144	0.546	0.715	19.10	1.000	0.625	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.00	1720.00	132072	0.0	19.60	19.09	1	50	Left	5	0.481	0.235	1.135	0.773	0.380	0.483	19.10	0.480	0.425	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.06	1720.00	132072	0.0	19.60	19.09	1	50	Right	5	0.008	0.000	1.175	0.009	0.006	0.006	19.10	0.010	0.006	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.04	1720.00	132072	0.0	19.60	19.17	50	0	Right	5	0.027	0.004	1.104	0.028	0.004	0.005	19.10	0.010	0.006	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.18	1720.00	132072	0.0	19.60	19.09	1	50	Left	5	0.025	0.020	1.125	0.039	0.013	0.024	19.10	0.030	0.019	
Body	LTE Band 66	20	QPSK	1	MMPPV	1:1	-0.05	1720.00	132072	0.0	19.60	19.17	50	0	Left	5	0.038	0.022	1.104	0.042	0.024	0.026	19.10	0.040	0.025	
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 10-24 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 (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.01	1720.00	132072	0.0	20.50	19.91	1	50	Back	5	0.516	0.252	1.146	0.591	0.289	0.369	19.80	0.500	0.313	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.01	1720.00	132072	0.0	20.50	19.99	50	25	Back	5	0.498	0.244	1.125	0.560	0.275	0.350	19.80	0.470	0.294	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.02	1720.00	132072	0.0	20.50	19.91	1	50	Top	5	0.009	0.005	1.146	0.010	0.006	0.006	19.80	0.010	0.006	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.03	1720.00	132072	0.0	20.50	19.99	50	25	Top	5	0.009	0.005	1.125	0.010	0.006	0.006	19.80	0.010	0.006	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.00	1720.00	132072	0.0	20.50	19.91	1	50	Bottom	5	0.952	0.453	1.146	1.068	0.519	0.668	19.80	0.910	0.569	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.00	1745.00	132322	0.0	20.50	19.83	1	50	Bottom	5	0.901	0.437	1.167	1.051	0.510	0.657	19.80	0.890	0.556	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.08	1720.00	132572	0.0	20.50	19.71	1	50	Bottom	5	0.978	0.475	1.199	1.173	0.570	0.733	19.80	0.990	0.619	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.03	1720.00	132072	0.0	20.50	19.99	50	25	Bottom	5	0.907	0.445	1.125	1.020	0.496	0.638	19.80	0.870	0.544	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.03	1745.00	132322	0.0	20.50	19.85	50	25	Bottom	5	0.946	0.459	1.161	1.098	0.513	0.686	19.80	0.930	0.581	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.01	1720.00	132572	0.0	20.50	19.68	50	25	Bottom	5	0.976	0.474	1.208	1.179	0.573	0.737	19.80	1.000	0.625	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.00	1720.00	132072	0.0	20.50	19.84	100	0	Bottom	5	0.885	0.431	1.164	1.039	0.502	0.644	19.80	0.870	0.544	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.00	1720.00	132072	0.0	20.50	19.89	50	0	Left	5	0.064	0.002	1.146	0.065	0.012	0.016	19.80	0.005	0.005	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	-0.02	1720.00	132072	0.0	20.50	19.91	50	0	Right	5	0.064	0.012	1.125	0.063	0.036	0.039	19.80	0.050	0.031	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	0.18	1720.00	132072	0.0	20.50	19.99	1	50	Left	5	0.011	0.006	1.146	0.013	0.007	0.008	19.80	0.010	0.006	
Body	LTE Band 66	20	QPSK	2b	93037	1:1	0.00	1720.00	132072	0.0	20.50	19.91	50	25	Left	5	0.011	0.006	1.125	0.012	0.007	0.008	19.80	0.010	0.006	
Spatial Peak																	Body									
Uncontrolled Exposure (General Population)																	1.6 W/kg (W/kg)									
																	Averaged over 1 gram									

Table 10-26 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 (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	4b	CN0K6	1:1	-0.01	1720.00	132072	0.0	18.60	17.78	1	50	Back	5	0.558	0.273	1.208	0.674	0.327	0.421	18.20	0.610	0.381	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.02	1720.00	132072	0.0	18.60	17.82	50	0	Back	5	0.579	0.289	1.197	0.693	0.339	0.433	18.20	0.620	0.388	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.02	1720.00	132072	0.0	18.60	17.78	1	50	Top	5	0.568	0.426	1.209	0.649	0.333	0.436	18.20	0.590	0.385	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.00	1745.50	132322	0.0	18.60	17.70	1	50	Top	5	0.582	0.453	1.230	1.085	0.533	0.578	18.20	0.980	0.613	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.05	1770.00	132572	0.0	18.60	17.54	1	50	Top	5	0.568	0.425	1.276	1.108	0.542	0.693	18.20	1.000	0.625	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.02	1720.00	132072	0.0	18.60	17.82	50	0	Top	5	0.527	0.449	1.207	0.986	0.537	0.626	18.20	0.990	0.620	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.03	1745.50	132322	0.0	18.60	17.70	50	0	Top	5	0.593	0.443	1.232	1.111	0.545	0.654	18.20	1.000	0.625	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.03	1770.00	132572	0.0	18.60	17.74	50	0	Top	5	0.557	0.420	1.219	1.045	0.512	0.653	18.20	0.940	0.588	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.02	1720.00	132072	0.0	18.60	17.74	100	0	Top	5	0.506	0.441	1.219	1.095	0.538	0.684	18.20	0.990	0.613	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	0.00	1770.00	132072	0.0	18.60	17.78	1	50	Bottom	5	0.006	0.003	1.205	0.007	0.004	0.004	18.20	0.010	0.006	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	0.07	1720.00	132072	0.0	18.60	17.82	50	0	Bottom	5	0.004	0.002	1.197	0.005	0.002	0.003	18.20	0.000	0.000	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	0.08	1720.00	132072	0.0	18.60	17.78	1	50	Right	5	0.008	0.005	1.208	0.010	0.006	0.006	18.20	0.010	0.006	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	0.05	1720.00	132072	0.0	18.60	17.82	50	0	Right	5	0.007	0.004	1.197	0.008	0.005	0.005	18.20	0.010	0.006	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.03	1720.00	132072	0.0	18.60	17.78	1	50	Left	5	0.006	0.002	1.208	0.008	0.009	0.043	18.20	0.060	0.038	
Body	LTE Band 66	20	QPSK	4b	CN0K6	1:1	-0.08	1720.00	132072	0.0	18.60	17.83	50	0	Left	5	0.008	0.003	1.197	0.003	0.040	0.043	18.20	0.060	0.038	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 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 25	20	QPSK	1	93037	1:1	0.00	1860.00	26140	0.0	19.80	18.20	1	50	Back	5	0.479	0.273	1.148	0.550	0.313	0.344	18.70	0.520	0.331	
Body	LTE Band 25	20	QPSK	1	93037	1:1	-0.02	1860.00	26140	0.0	19.80	18.21	50	0	Back	5	0.472	0.259	1.146	0.541	0.308	0.338	18.70	0.520	0.325	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.06	1860.00	26140	0.0	19.80	18.20	1	50	Top	5	0.000	0.000	1.148	0.000	0.000	0.000	18.70	0.000	0.000	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.01	1860.00	26140	0.0	19.80	18.21	50	0	Top	5	0.000	0.000	1.146	0.000	0.000	0.000	18.70	0.000	0.000	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.01	1860.00	26140	0.0	19.80	18.20	1	50	Bottom	5	0.873	0.417	1.148	1.002	0.479	0.626	18.70	0.970	0.606	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.00	1882.50	26365	0.0	19.80	18.17	1	50	Bottom	5	0.826	0.394	1.156	0.955	0.455	0.597	18.70	0.920	0.575	
Body	LTE Band 25	20	QPSK	1	93037	1:1	-0.01	1905.00	26590	0.0	19.80	18.18	1	50	Bottom	5	0.714	0.340	1.153	0.873	0.392	0.514	18.70	0.790	0.494	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.00	1860.00	26140	0.0	19.80	18.21	50	0	Bottom	5	0.886	0.422	1.146	1.015	0.484	0.634	18.70	0.980	0.613	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.00	1882.50	26365	0.0	19.80	18.16	50	25	Bottom	5	0.830	0.396	1.159	0.962	0.459	0.601	18.70	0.930	0.581	
Body	LTE Band 25	20	QPSK	1	93037	1:1	-0.01	1905.00	26590	0.0	19.80	18.17	50	25	Bottom	5	0.718	0.342	1.156	0.830	0.395	0.519	18.70	0.800	0.500	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.00	1860.00	26140	0.0	19.80	18.15	100	0	Bottom	5	0.892	0.425	1.161	1.036	0.493	0.648	18.70	1.000	0.625	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.04	1860.00	26140	0.0	19.80	18.20	1	50	Right	5	0.000	0.000	1.148	0.000	0.000	0.000	18.70	0.000	0.000	
Body	LTE Band 25	20	QPSK	1	93037	1:1	0.09	1860.00	26140	0.0	19.80	18.21	50	0	Right	5	0.000	0.000	1.146	0.000	0.000	0.000	18.70	0.000	0.000	
Body	LTE Band 25	20	QPSK	1	93037	1:1	-0.04	1860.00	26140	0.0	19.80	18.20	1	50	Left	5	0.287	0.159	1.148	0.329	0.183	0.306	18.70	0.320	0.200	
Body	LTE Band 25	20	QPSK	1	93037	1:1	-0.03	1860.00	26140	0.0	19.80	18.21	50	0	Left	5	0.287	0.160	1.146	0.329	0.183	0.306	18.70	0.320	0.200	
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 10-28 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 (1g SAR)	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	0.00	1860.00	26140	0.0	19.80	18.86	1	50	Back	5	0.578	0.275	1.242	0.718	0.342	0.449	19.10	0.600	0.375	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	0.01	1860.00	26140	0.0	19.80	18.94	50	0	Back	5	0.576	0.274	1.219	0.702	0.334	0.449	19.10	0.580	0.369	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.19	1860.00	26140	0.0	19.80	18.86	1	50	Top	5	0.007	0.004	1.242	0.009	0.005	0.006	19.10	0.010	0.006	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.11	1860.00	26140	0.0	19.80	18.94	50	0	Top	5	0.006	0.003	1.219	0.007	0.004	0.004	19.10	0.010	0.006	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.02	1860.00	26140	0.0	19.80	18.86	1	50	Bottom	5	0.873	0.418	1.242	1.084	0.519	0.678	19.10	0.910	0.569	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.01	1882.50	26365	0.0	19.80	18.79	1	50	Bottom	5	0.827	0.395	1.262	1.044	0.498	0.653	19.10	0.880	0.550	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	0.00	1905.00	26590	0.0	19.80	18.43	1	50	Bottom	5	0.870	0.419	1.271	1.039	0.574	0.746	19.10	1.000	0.625	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.01	1860.00	26140	0.0	19.80	18.94	50	0	Bottom	5	0.865	0.413	1.219	1.054	0.503	0.659	19.10	0.880	0.550	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.01	1882.50	26365	0.0	19.80	18.83	50	0	Bottom	5	0.843	0.402	1.250	1.054	0.503	0.659	19.10	0.880	0.550	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	0.01	1905.00	26590	0.0	19.80	18.71	50	0	Bottom	5	0.872	0.418	1.285	1.121	0.517	0.701	19.10	0.940	0.588	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.01	1860.00	26140	0.0	19.80	18.89	100	0	Bottom	5	0.860	0.411	1.245	1.096	0.524	0.685	19.10	0.920	0.575	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.01	1860.00	26140	0.0	19.80	18.89	100	0	Left	5	0.006	0.003	1.242	0.014	0.007	0.014	19.10	0.010	0.007	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.01	1860.00	26140	0.0	19.80	18.94	50	0	Right	5	0.046	0.026	1.212	0.056	0.032	0.035	19.10	0.050	0.031	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	-0.20	1860.00	26140	0.0	19.80	18.86	1	50	Left	5	0.004	0.002	1.242	0.012	0.007	0.008	19.10	0.010	0.006	
Body	LTE Band 25	20	QPSK	2b	CN0K6	1:1	0.14	1860.00	26140	0.0	19.80	18.81	50	0	Left	5	0.001	0.000	0.219	0.000	0.000	0.000	19.10	0.010	0.006	
ANSI/IEEE C95.3-1992 - SAFETY LIMIT																1.6 W/kg Averaged										
Uncontrolled Exposure / General Population																Special Peak										
																Anybody exposed 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 #	MPP [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 3d SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 3d SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate [1g SAR]	Simultaneous Time-up Power	Simultaneous Reported 3d SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.01	1860.00	26140	0.0	19.30	19.21	1	50	Back	5	0.709	0.341	1.001	0.724	0.348	0.453	18.60	0.610	0.381	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.01	1860.00	26140	0.0	19.30	19.10	0	Back	5	0.717	0.340	1.001	0.748	0.345	0.440	18.60	0.610	0.381		
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.01	1860.00	26140	0.0	19.30	19.71	1	50	Top	5	1.000	0.532	1.001	1.113	0.543	0.696	18.60	0.640	0.588	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1862.50	26360	0.0	19.30	19.10	1	50	Top	5	1.110	0.541	1.047	1.162	0.569	0.776	18.60	0.990	0.619	All 1
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1862.50	26360	0.0	19.30	19.29	1	50	Top	5	1.070	0.540	1.001	1.070	0.540	0.777	18.60	0.990	0.619	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1905.00	26590	0.0	19.30	18.95	1	50	Top	5	1.070	0.525	1.084	1.060	0.569	0.775	18.60	0.980	0.613	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.01	1860.00	26140	0.0	19.30	19.29	50	0	Top	5	1.090	0.529	1.005	1.095	0.532	0.684	18.60	0.930	0.581	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1862.50	26360	0.0	19.30	19.10	0	Top	5	1.110	0.540	1.047	1.110	0.540	0.776	18.60	0.990	0.613		
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1905.00	26590	0.0	19.30	19.00	50	0	Top	5	1.100	0.538	1.077	1.179	0.577	0.777	18.60	1.000	0.625	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1860.00	26140	0.0	19.30	19.18	100	0	Top	5	1.110	0.540	1.028	1.141	0.555	0.713	18.60	0.970	0.606	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.00	1860.00	26140	0.0	19.30	19.18	100	0	Bottom	5	1.090	0.538	1.001	1.090	0.538	0.713	18.60	0.970	0.606	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.09	1860.00	26140	0.0	19.30	19.28	50	0	Bottom	5	0.601	0.300	1.001	0.601	0.300	0.400	18.60	0.010	0.006	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.11	1860.00	26140	0.0	19.30	19.21	1	50	Right	5	0.601	0.302	1.001	0.601	0.302	0.401	18.60	0.010	0.006	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	-0.20	1860.00	26140	0.0	19.30	19.11	1	50	Left	5	0.601	0.300	1.001	0.601	0.300	0.400	18.60	0.010	0.006	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.12	1860.00	26140	0.0	19.30	19.21	1	50	Left	5	0.648	0.328	1.011	0.649	0.329	0.431	18.60	0.040	0.025	
Body	LTE Band 25	20	CPSK	4b	930327	1:1	0.01	1860.00	26140	0.0	19.30	19.28	50	0	Left	5	0.048	0.027	1.005	0.048	0.027	0.030	18.60	0.040	0.025	
ANSI/IEEE CS3.02-2017 Safety Limit																							1.6 W/kg (10W/g)			
Spatial Peak																							averaged over 1 gram			
Uncontrolled Exposure/General Population																										

Note: Blue entry represents variability measurement

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfnt [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 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio [SAR]	Simultaneous Turn-up Power	Simultaneous Reported 30g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	-0.01	2310.00	27710	0.0	19.50	19.20	1	25	Back	5	0.906	0.373	1.072	0.91	0.400	0.607	18.50	0.830	0.519	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	0.00	2310.00	27710	0.0	19.50	19.24	25	0	Back	5	0.906	0.379	1.062	0.96	0.402	0.630	18.50	0.830	0.519	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	-0.01	2310.00	27710	0.0	19.50	19.18	50	0	Back	5	0.923	0.379	1.076	0.993	0.408	0.674	18.50	0.830	0.531	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	0.02	2310.00	27710	0.0	19.50	19.20	1	25	Top	5	0.909	0.380	1.071	0.921	0.413	0.631	18.50	0.830	0.520	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	-0.18	2310.00	27710	0.0	19.50	19.24	25	0	Top	5	0.923	0.380	1.062	0.992	0.411	0.674	18.50	0.830	0.613	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	0.00	2310.00	27710	0.0	19.50	19.20	1	25	Bottom	5	0.906	0.379	1.072	0.91	0.400	0.607	18.50	0.830	0.519	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	0.03	2310.00	27710	0.0	19.50	19.24	25	0	Bottom	5	1.000	0.522	1.062	1.148	0.554	0.740	18.00	1.000	0.625	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	-0.08	2310.00	27710	0.0	19.50	19.18	50	0	Bottom	5	1.000	0.513	1.076	1.173	0.552	0.733	18.00	1.000	0.625	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	-0.15	2310.00	27710	0.0	19.50	19.18	50	0	Left	5	0.910	0.380	1.072	0.910	0.402	0.630	18.50	0.830	0.519	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	-0.07	2310.00	27710	0.0	19.50	19.24	25	0	Right	5	0.921	0.381	1.062	0.922	0.412	0.674	18.50	0.830	0.613	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	0.06	2310.00	27710	0.0	19.50	19.20	1	25	Left	5	0.916	0.384	1.072	0.917	0.411	0.645	18.50	0.830	0.625	
Body	LTE Band 30	10	QPSK	1	NLS7H	1:1	0.08	2310.00	27710	0.0	19.50	19.24	25	0	Left	5	0.909	0.387	1.062	0.913	0.403	0.631	18.50	0.830	0.519	
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																Spot Peak										
Averaged Exposure / General Population																1.6 W/kg (mW/g)									averaged over 1 gram	

1.6 W/kg (mW/g)

1.5 W/kg (mW/g)

Table 10-32 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DUTY [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 [SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	OFDM	25	7656L	1:1	-0.01	2310.00	27710	0.0	20.50	20.44	1	49	Back	5	0.812	0.308	1.024	0.844	0.404	0.528	19.80	0.710	0.444		
Body	LTE Band 30	10	OFDM	26	7656L	1:1	-0.09	2310.00	27710	0.6	20.50	20.40	25	25	Back	5	0.812	0.462	1.023	0.861	0.411	0.538	19.80	0.730	0.456		
Body	LTE Band 30	10	OFDM	26	7656L	1:1	-0.01	2310.00	27710	0.0	20.50	20.38	50	0	Back	5	0.855	0.432	1.028	0.889	0.424	0.556	19.80	0.720	0.465		
Body	LTE Band 30	10	OFDM	26	7656L	0.03	0.03	2310.00	27710	0.0	20.50	20.44	1	49	Top	5	0.820	0.309	1.024	0.820	0.390	0.529	19.80	0.700	0.442		
Body	LTE Band 30	10	OFDM	26	7656L	1:1	0.03	2310.00	27710	0.0	20.50	20.40	25	25	Top	5	0.820	0.409	1.023	0.820	0.009	0.513	19.80	0.702	0.442	0.013	
Body	LTE Band 20	10	OFDM	26	7656L	1:1	0.01	2310.00	27710	0.0	20.50	20.44	1	49	Bottom	5	1.150	0.436	1.024	1.126	0.524	0.744	19.80	0.590	0.594		
Body	LTE Band 20	10	OFDM	26	7656L	1:1	0.09	2310.00	27710	0.6	20.50	20.40	25	25	Bottom	5	1.150	0.540	1.023	1.084	0.580	0.770	19.80	0.610	0.614		
Body	LTE Band 30	10	OFDM	26	7656L	1:1	0.00	2310.00	27710	0.0	20.50	20.38	50	0	Bottom	5	1.150	0.574	1.028	1.182	0.590	0.789	19.80	1.000	0.625	A12	
Body	LTE Band 30	10	OFDM	26	7656L	1:1	0.07	2310.00	27710	0.0	20.50	20.44	1	49	Left	5	0.963	0.312	1.024	0.963	0.404	0.529	19.80	0.690	0.501		
Body	LTE Band 30	10	OFDM	26	7656L	1:1	0.07	2310.00	27710	0.0	20.50	20.40	25	25	Right	5	0.963	0.392	1.021	0.962	0.013	0.509	19.80	0.500	0.501		
Body	LTE Band 30	10	OFDM	26	7656L	1:1	0.05	2310.00	27710	0.0	20.50	20.44	1	49	Left	5	0.911	0.317	1.054	0.911	0.017	0.519	19.80	0.610	0.610	0.019	
Body	LTE Band 30	10	OFDM	1:1	7656L	1:1	0.09	2310.00	27710	0.0	20.50	20.40	25	25	Left	5	0.911	0.317	1.053	0.912	0.017	0.519	19.80	0.610	0.610	0.019	
ANSI/IEEE C95.3-1982 - SAFETY LIMIT																Spot Peak										1.6 W/kg (10g SAR) averaged over 10 gram	
Uncontrolled Exposure/General Population																Body											

Body

1.6 W/kg (mW/g)

Table 10-33 Antenna 3

[illegible]

Body

1.6 W/kg (mW/g)

Table 10-34 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 [1g SAR]	Simultaneous Turn-up Power [W/kg]	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.00	2310.00	27710	0.0	18.80	18.70	1	0	Back	5	0.978	0.430	1.028	1.002	0.449	0.635	18.20	0.850	0.531	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.02	2310.00	27710	0.0	18.80	18.68	25	12	Back	5	0.993	0.444	1.028	1.021	0.456	0.638	18.20	0.870	0.544	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	-0.01	2310.00	27710	0.0	18.80	18.67	50	0	Back	5	1.100	0.452	1.035	1.040	0.466	0.650	18.20	0.990	0.536	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.01	2310.00	27710	0.0	18.80	18.70	1	0	Top	5	1.140	0.455	1.031	1.146	0.517	0.729	18.20	0.990	0.615	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.01	2310.00	27710	0.0	18.80	18.68	25	12	Top	5	1.180	0.467	1.028	1.162	0.511	0.726	18.20	0.990	0.619	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.03	2310.00	27710	0.0	18.80	18.67	50	0	Top	5	1.140	0.455	1.030	1.174	0.518	0.734	18.20	1.000	0.625	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.00	2310.00	27710	0.0	18.80	18.70	1	0	Bottom	5	0.978	0.430	1.028	1.002	0.449	0.635	18.20	0.850	0.531	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.06	2310.00	27710	0.0	18.80	18.68	25	12	Bottom	5	0.993	0.444	1.028	0.993	0.456	0.638	18.20	0.870	0.544	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.00	2310.00	27710	0.0	18.80	18.70	1	0	Bottom	5	0.978	0.430	1.028	1.002	0.449	0.635	18.20	0.850	0.531	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.16	2310.00	27710	0.0	18.80	18.69	25	12	Right	5	0.997	0.451	1.028	0.928	0.415	0.618	18.20	0.920	0.513	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.01	2610.00	27710	0.0	18.80	18.70	1	0	Left	5	0.989	0.453	1.023	1.01	0.504	0.663	18.20	0.980	0.556	
Body	LTE Band 3	10	OFDM	4b	65W9G	1:1	0.03	2310.00	27710	0.0	18.80	18.68	25	12	Left	5	0.991	0.446	1.038	0.984	0.450	0.650	18.20	0.980	0.560	
ANSI/IEEE C63-1.193 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 mW/mg						
Uncontrolled Exposure/General Population																				averaged over 5 g/m						

Body

1.6 W/kg (mW/g)

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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 #	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 7	20	QPSK	1	GY04V	1:1	0.06	2510.00	20850	0.0	18.20	17.17	1	50	Back	5	0.932	0.366	1.268	1.182	0.464	0.739	17.50	1.000	0.625	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.01	2515.00	21100	0.0	18.20	17.37	1	50	Back	5	0.807	0.317	1.211	0.977	0.384	0.611	17.50	0.820	0.511	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.13	2560.00	21300	0.0	18.20	17.45	1	50	Back	5	0.868	0.340	1.189	1.032	0.404	0.645	17.50	0.870	0.544	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.01	2510.00	20850	0.0	18.20	17.34	50	25	Back	5	0.922	0.364	1.219	1.124	0.444	0.703	17.50	0.950	0.594	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.00	2515.00	21100	0.0	18.20	17.37	50	25	Back	5	0.804	0.315	1.211	0.974	0.381	0.609	17.50	0.820	0.511	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.08	2560.00	21300	0.0	18.20	17.38	50	25	Back	5	0.850	0.327	1.208	1.003	0.395	0.617	17.50	0.840	0.525	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.05	2560.00	21300	0.0	18.20	17.37	100	0	Back	5	0.827	0.326	1.211	1.001	0.395	0.626	17.50	0.840	0.525	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.03	2560.00	21300	0.0	18.20	17.45	1	50	Top	5	0.902	0.350	1.189	0.902	0.400	0.651	17.50	0.900	0.600	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.01	2560.00	21300	0.0	18.20	17.38	50	25	Top	5	0.902	0.350	1.208	0.902	0.400	0.651	17.50	0.900	0.600	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.04	2510.00	20850	0.0	18.20	17.17	1	50	Bottom	5	0.808	0.315	1.268	1.025	0.399	0.641	17.50	0.860	0.538	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.03	2515.00	21100	0.0	18.20	17.37	1	50	Bottom	5	0.821	0.328	1.211	0.994	0.385	0.621	17.50	0.840	0.525	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.01	2560.00	21300	0.0	18.20	17.45	1	50	Bottom	5	0.984	0.377	1.189	1.170	0.448	0.751	17.50	0.990	0.619	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.00	2510.00	20850	0.0	18.20	17.34	50	25	Bottom	5	0.795	0.309	1.219	0.969	0.377	0.606	17.50	0.820	0.511	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.00	2515.00	21100	0.0	18.20	17.37	50	25	Bottom	5	0.814	0.318	1.211	0.969	0.385	0.624	17.50	0.840	0.525	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.01	2560.00	21300	0.0	18.20	17.38	50	25	Bottom	5	0.963	0.379	1.208	1.137	0.457	0.742	17.50	1.000	0.625	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.05	2560.00	21300	0.0	18.20	17.31	50	0	Bottom	5	0.871	0.323	1.227	1.069	0.396	0.668	17.50	0.900	0.563	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.00	2560.00	21300	0.0	18.20	17.27	100	0	Bottom	5	0.806	0.320	1.211	1.097	0.411	0.686	17.50	0.920	0.575	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.02	2560.00	21300	0.0	18.20	17.45	1	50	Right	5	0.939	0.368	1.189	0.933	0.419	0.651	17.50	0.930	0.619	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.04	2560.00	21300	0.0	18.20	17.38	50	25	Right	5	0.925	0.363	1.208	0.930	0.416	0.659	17.50	0.930	0.619	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	-0.01	2560.00	21300	0.0	18.20	17.45	1	50	Left	5	0.912	0.361	1.189	0.945	0.403	0.661	17.50	0.920	0.619	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.03	2560.00	21300	0.0	18.20	17.38	50	25	Left	5	0.914	0.363	1.208	0.945	0.404	0.664	17.50	0.930	0.619	
Body	LTE Band 7	20	QPSK	1	GY04V	1:1	0.01	2560.00	21300	0.0	18.20	17.21	50	0	Bottom	5	0.832	0.322	1.256	1.045	0.404	0.653	17.50	0.880	0.550	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body					Plot #				
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

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 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 7	20	QPSK	2b	65W9G	1:1	-0.07	2560.00	21300	0.0	20.10	20.06	1	50	Back	5	0.767	0.348	1.009	0.774	0.351	0.484	19.40	0.650	0.406	A13
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.08	2560.00	21300	0.0	20.10	20.09	50	25	Back	5	0.724	0.330	1.002	0.725	0.331	0.453	19.40	0.610	0.381	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.15	2560.00	21300	0.0	20.10	20.06	1	50	Top	5	0.909	0.404	1.009	0.909	0.404	0.506	19.40	0.910	0.506	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.17	2560.00	21300	0.0	20.10	20.09	50	25	Top	5	0.910	0.404	1.001	0.910	0.404	0.506	19.40	0.910	0.506	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.07	2510.00	20850	0.0	20.10	19.94	1	50	Bottom	5	1.120	0.479	1.058	1.163	0.497	0.727	19.40	0.980	0.613	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.04	2515.00	21100	0.0	20.10	20.05	1	50	Bottom	5	1.170	0.507	1.012	1.184	0.513	0.740	19.40	0.990	0.619	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.02	2515.00	21100	0.0	20.10	19.93	1	99	Bottom	5	1.140	0.490	1.045	1.140	0.512	0.744	19.40	1.000	0.625	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.04	2560.00	21300	0.0	20.10	20.06	1	50	Bottom	5	1.090	0.471	1.009	1.100	0.475	0.688	19.40	0.920	0.575	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.06	2510.00	20850	0.0	20.10	20.08	50	50	Bottom	5	1.140	0.486	1.005	1.146	0.491	0.716	19.40	0.960	0.600	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.06	2515.00	21100	0.0	20.10	20.07	50	0	Bottom	5	1.170	0.505	1.007	1.178	0.509	0.736	19.40	0.990	0.619	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.05	2560.00	21300	0.0	20.10	20.09	50	25	Bottom	5	1.080	0.462	1.002	1.082	0.463	0.676	19.40	0.910	0.569	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.04	2560.00	21300	0.0	20.10	19.99	100	0	Bottom	5	1.030	0.474	1.005	1.129	0.486	0.706	19.40	0.920	0.594	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.03	2560.00	21300	0.0	20.10	20.06	1	50	Right	5	0.952	0.408	1.008	0.952	0.408	0.503	19.40	0.940	0.605	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.11	2560.00	21300	0.0	20.10	20.09	50	25	Right	5	0.911	0.407	1.002	0.911	0.407	0.503	19.40	0.940	0.605	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.05	2560.00	21300	0.0	20.10	20.06	1	50	Left	5	0.911	0.407	1.009	0.911	0.407	0.503	19.40	0.940	0.605	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	-0.03	2560.00	21300	0.0	20.10	20.09	50	25	Left	5	0.911	0.408	1.002	0.911	0.408	0.503	19.40	0.940	0.605	
Body	LTE Band 7	20	QPSK	2b	65W9G	1:1	0.07	2515.00	21100	0.0	20.10	19.46	1	99	Bottom	5	1.010	0.440	1.109	1.171	0.510	0.732	19.40	0.980	0.613	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body				Plot #					
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 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	3	65W9G	1:1	0.04	2510.00	20850	0.0	17.90	17.25	1	50	Back	5	0.987	0.324	1.161	0.982	0.272	0.426	17.20	0.580	0.361	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2515.00	21100	0.0	17.90	17.93	1	50	Back	5	0.792	0.311	1.135	0.899	0.353	0.562	17.20	0.475	0.306	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2560.00	21300	0.0	17.90	17.38	1	50	Back	5	1.020	0.392	1.127	1.130	0.442	0.719	17.20	0.970	0.606	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	0.04	2510.00	20850	0.0	17.90	17.36	50	50	Back	5	0.631	0.254	1.132	0.714	0.288	0.446	17.20	0.600	0.375	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2560.00	21300	0.0	17.90	17.97	50	50	Back	5	0.987	0.324	1.161	0.982	0.272	0.426	17.20	0.580	0.361	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2560.00	21300	0.0	17.90	17.37	50	25	Back	5	1.030	0.397	1.130	1.154	0.449	0.728	17.20	0.980	0.613	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.03	2560.00	21300	0.0	17.90	17.34	50	0	Back	5	1.040	0.400	1.138	1.184	0.455	0.760	17.20	1.000	0.625	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2560.00	21300	0.0	17.90	17.86	100	0	Back	5	0.987	0.324	1.161	0.982	0.272	0.426	17.20	0.580	0.361	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	0.00	2510.00	20850	0.0	17.90	17.25	1	50	Top	5	0.761	0.317	1.161	0.907	0.368	0.567	17.20	0.770	0.481	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	0.00	2530.00	21100	0.0	17.90	17.35	1	50	Top	5	0.934	0.280	1.155	1.056	0.409	0.641	17.20	0.870	0.544	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2560.00	21300	0.0	17.90	17.88	100	0	Top	5	0.987	0.324	1.161	0.982	0.272	0.426	17.20	0.580	0.361	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2510.00	20850	0.0	17.90	17.36	50	50	Top	5	0.786	0.319	1.132	0.890	0.361	0.556	17.20	0.740	0.449	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2515.00	21100	0.0	17.90	17.93	50	50	Top	5	0.987	0.324	1.161	0.982	0.272	0.426	17.20	0.580	0.361	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	0.00	2560.00	21300	0.0	17.90	17.37	50	25	Top	5	0.903	0.361	1.130	1.020	0.408	0.638	17.20	0.840	0.538	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.01	2560.00	21300	0.0	17.90	17.86	100	0	Top	5	0.863	0.361	1.132	1.021	0.409	0.639	17.20	0.800	0.518	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.04	2560.00	21300	0.0	17.90	17.88	100	0	Bottom	5	0.902	0.360	1.127	1.002	0.400	0.600	17.20	0.900	0.570	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	0.09	2560.00	21300	0.0	17.90	17.87	50	25	Bottom	5	0.901	0.360	1.130	0.901	0.360	0.561	17.20	0.900	0.570	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.03	2560.00	21300	0.0	17.90	17.88	100	0	Bottom	5	0.902	0.361	1.132	1.021	0.409	0.639	17.20	0.840	0.538	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.17	2560.00	21300	0.0	17.90	17.87	50	25	Right	5	0.942	0.318	1.130	0.773	0.311	0.371	17.20	0.730	0.444	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	0.05	2560.00	21300	0.0	17.90	17.87	50	0	Left	5	0.934	0.313	1.127	0.877	0.315	0.377	17.20	0.620	0.313	
Body	LTE Band 7	20	QPSK	3	65W9G	1:1	-0.07	2560.00	21300	0.0	17.90	17.89	50	0	Right	5	0.901	0.361	1.132	0.901	0.360	0.561	17.20	0.900	0.570	
Body	LTE Band 7	20	QPSK	3	MMF9P	1:1	-0.07	2560.00	21300	0.0	17.90	17.21	50	0	Back	5	0.966	0.369	1.172	1.132	0.432	0.708	17.20	0.960	0.600	
ANSI/IEEE C63.19-1992: SAFETY LIMIT																Body										
Uncontrolled Exposure/General Population																averaged over 10 cm										

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]	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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.01	2510.00	20850	0.0	18.90	18.37	1	50	Back	5	0.831	0.368	1.130	0.939	0.416	0.587	18.20	0.780	0.494	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.01	2535.00	21100	0.0	18.90	18.14	1	50	Back	5	0.864	0.377	1.191	1.029	0.449	0.643	18.20	0.870	0.544	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.02	2560.00	21350	0.0	18.90	18.43	1	50	Back	5	0.777	0.336	1.114	0.866	0.278	0.541	18.20	0.730	0.406	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.01	2510.00	20850	0.0	18.90	18.37	50	25	Back	5	0.837	0.371	1.130	0.946	0.419	0.591	18.20	0.800	0.500	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.03	2535.00	21100	0.0	18.90	18.37	50	25	Back	5	0.752	0.335	1.130	0.850	0.379	0.531	18.20	0.720	0.450	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.01	2560.00	21350	0.0	18.90	18.44	50	0	Back	5	0.706	0.361	1.122	0.874	0.381	0.546	18.20	0.760	0.462	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.02	2560.00	21350	0.0	18.90	18.41	1000	0	Back	5	0.750	0.332	1.119	0.850	0.372	0.531	18.20	0.720	0.450	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.02	2510.00	20850	0.0	18.90	18.37	1	50	Top	5	0.986	0.420	1.130	1.114	0.475	0.696	18.20	0.940	0.588	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.01	2535.00	21100	0.0	18.90	18.14	1	50	Top	5	0.857	0.405	1.191	1.140	0.485	0.713	18.20	0.960	0.600	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.01	2535.00	21100	0.0	18.90	18.00	1	99	Top	5	0.961	0.407	1.202	1.182	0.501	0.739	18.20	1.000	0.625	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.02	2560.00	21350	0.0	18.90	18.41	1	50	Top	5	0.893	0.377	1.114	0.995	0.420	0.622	18.20	0.840	0.525	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.01	2510.00	20850	0.0	18.90	18.37	50	25	Top	5	1.000	0.426	1.130	1.130	0.481	0.706	18.20	0.960	0.600	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.02	2535.00	21100	0.0	18.90	18.37	50	25	Top	5	0.964	0.411	1.130	1.089	0.464	0.681	18.20	0.920	0.575	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.02	2560.00	21350	0.0	18.90	18.44	50	0	Top	5	0.919	0.388	1.112	1.022	0.411	0.639	18.20	0.860	0.538	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.01	2560.00	21350	0.0	18.90	18.41	1000	0	Top	5	0.911	0.385	1.118	1.024	0.411	0.640	18.20	0.870	0.544	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.03	2560.00	21350	0.0	18.90	18.43	1	50	Bottom	5	0.000	0.000	0.114	0.000	0.000	0.000	18.20	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.02	2560.00	21350	0.0	18.90	18.44	50	0	Bottom	5	0.000	0.000	0.112	0.000	0.000	0.000	18.20	0.000	0.000	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.01	2560.00	21350	0.0	18.90	18.38	1	50	Right	5	0.025	0.021	0.114	0.028	0.014	0.028	18.20	0.020	0.011	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.05	2560.00	21350	0.0	18.90	18.44	50	0	Right	5	0.028	0.014	0.112	0.031	0.016	0.019	18.20	0.030	0.019	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.18	2560.00	21350	0.0	18.90	18.43	1	50	Left	5	0.050	0.025	0.114	0.056	0.028	0.035	18.20	0.050	0.031	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	-0.05	2560.00	21350	0.0	18.90	18.44	50	0	Left	5	0.052	0.026	0.112	0.058	0.029	0.036	18.20	0.050	0.031	
Body	LTE Band 7	20	QPSK	4b	65W96	1:1	0.05	2535.00	21100	0.0	18.90	18.01	1	99	Top	5	0.958	0.389	1.227	1.139	0.477	0.712	18.20	0.960	0.600	
ANSI/IEEE C63.9 - SAFETY LIMIT																	1g W/kg								Spot/Freq	
Uncontrolled Exposure/General Population																	Averaged over 1g									

ANSI/IEEE C63.1 (1987) - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

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

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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.02	2506.00	39750	0.0	19.70	19.39	1	50	Back	5	0.595	0.213	1.074	0.639	0.250	0.399	19.00	0.540	0.318	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.03	2549.50	40185	0.0	19.70	19.21	1	50	Back	5	0.616	0.249	1.119	0.712	0.279	0.445	19.00	0.600	0.375	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.10	2593.00	40620	0.0	19.70	19.52	1	50	Back	5	0.897	0.340	1.042	0.935	0.354	0.584	19.00	0.780	0.488	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.01	2636.50	41055	0.0	21.90	21.57	1	50	Back	5	0.588	0.228	1.079	0.632	0.246	0.395	21.20	0.530	0.331	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.09	2680.00	41490	0.0	21.90	21.79	1	50	Back	5	0.598	0.261	1.026	1.024	0.391	0.640	21.20	0.860	0.538	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.08	2506.00	39750	0.0	19.70	19.41	50	50	Back	5	0.636	0.250	0.969	0.680	0.267	0.425	19.00	0.570	0.356	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.04	2549.50	40185	0.0	19.70	19.34	50	0	Back	5	0.727	0.261	1.086	0.790	0.305	0.484	19.00	0.660	0.413	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.04	2593.00	40620	0.0	19.70	19.43	50	50	Back	5	0.859	0.328	1.064	0.914	0.349	0.571	19.00	0.770	0.481	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.02	2636.50	41055	0.0	21.90	21.75	50	50	Back	5	0.611	0.237	1.055	0.632	0.245	0.395	21.20	0.530	0.331	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.07	2680.00	41490	0.0	21.90	21.78	50	50	Back	5	1.040	0.397	1.028	1.069	0.408	0.668	21.20	0.930	0.563	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.06	2593.00	40620	0.0	19.70	19.39	100	0	Back	5	0.858	0.330	1.074	0.921	0.354	0.576	19.00	0.770	0.481	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.01	2680.00	41490	0.0	21.90	21.77	100	0	Back	5	0.969	0.377	1.050	0.998	0.383	0.624	21.20	0.840	0.525	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.08	2680.00	41490	0.0	21.90	21.79	50	50	Top	5	0.006	0.000	0.106	0.006	0.003	0.004	21.20	0.010	0.006	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.02	2680.00	41490	0.0	21.90	21.78	50	50	Top	5	0.004	0.000	0.108	0.004	0.001	0.003	21.20	0.000	0.000	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.02	2506.00	39750	0.0	19.70	19.39	1	50	Bottom	5	0.611	0.326	1.074	0.692	0.349	0.538	19.00	0.750	0.469	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.00	2549.50	40185	0.0	19.70	19.21	1	50	Bottom	5	0.863	0.373	1.119	1.078	0.417	0.674	19.00	0.900	0.561	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.01	2593.00	40620	0.0	19.70	19.32	1	50	Bottom	5	1.000	0.389	1.042	1.003	0.405	0.664	19.00	0.900	0.561	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.08	2636.50	41055	0.0	21.90	21.57	1	50	Bottom	5	0.774	0.290	1.079	0.835	0.313	0.522	21.20	0.700	0.438	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.03	2680.00	41490	0.0	21.90	21.79	1	50	Bottom	5	1.069	0.400	1.026	1.118	0.413	0.699	21.20	0.940	0.588	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.01	2506.00	39750	0.0	19.70	19.41	50	0	Bottom	5	0.847	0.330	1.060	0.905	0.353	0.566	19.00	0.760	0.475	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.02	2549.50	40185	0.0	19.70	19.34	50	0	Bottom	5	0.970	0.375	1.086	1.053	0.407	0.658	19.00	0.880	0.550	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.00	2593.00	40620	0.0	19.70	19.43	50	50	Bottom	5	1.200	0.383	1.064	1.064	0.408	0.665	19.00	0.990	0.598	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.19	2636.50	41055	0.0	21.90	21.75	50	50	Bottom	5	0.627	0.308	1.055	0.856	0.319	0.535	21.20	0.720	0.450	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.50	2680.00	41490	0.0	21.90	21.78	50	50	Bottom	5	1.120	0.411	1.028	1.151	0.423	0.719	21.20	0.960	0.600	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.01	2680.00	41490	0.0	21.90	21.76	50	0	Bottom	5	1.200	0.386	1.023	1.085	0.408	0.678	21.20	0.910	0.569	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:2.31	0.00	2680.00	41490	0.0	23.50	23.04	50	0	Bottom	5	1.050	0.398	1.112	1.168	0.443	0.750	22.80	0.980	0.613	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:2.31	0.00	2593.00	40620	0.0	21.50	21.28	100	0	Bottom	5	0.842	0.340	1.042	0.844	0.329	0.494	21.20	0.820	0.507	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.00	2593.00	40620	0.0	19.70	19.39	100	0	Bottom	5	1.000	0.396	1.074	1.106	0.425	0.691	19.00	0.930	0.581	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.04	2680.00	41490	0.0	21.90	21.77	100	0	Bottom	5	1.080	0.403	1.030	1.123	0.414	0.702	21.20	0.940	0.588	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.03	2680.00	41490	0.0	21.90	21.78	100	0	Bottom	5	1.040	0.402	1.040	1.040	0.402	0.694	21.20	0.930	0.581	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.07	2680.00	41490	0.0	21.90	21.78	50	Left	5	0.844	0.303	1.038	0.845	0.304	0.492	21.20	0.810	0.093		
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.08	2593.00	40620	0.0	19.70	19.52	1	50	Left	5	0.118	0.032	1.042	0.123	0.054	0.077	19.00	0.100	0.023	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.07	2680.00	41490	0.0	21.90	21.77	50	Left	5	0.912	0.329	1.042	0.915	0.329	0.519	21.20	0.810	0.116		
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.01	2593.00	40620	0.0	19.70	19.41	50	0	Left	5	0.118	0.031	1.064	0.123	0.054	0.077	19.00	0.100	0.063	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	0.02	2680.00	41490	0.0	21.90	21.78	50	0	Left	5	0.279	0.128	1.028	0.287	0.132	0.179	21.20	0.240	0.150	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:1.58	-0.04	2660.20	41292	0.0	21.90	21.54	50	0	Left	5	1.020	0.381	1.086	1.108	0.414	0.693	21.20	0.930	0.581	
Body	LTE Band 41	20	QPSK	1	GYQ4V	1:2.31	0.01	2680.00	41490	0.0	23.50	23.22	50	0	Bottom	5	1.060	0.401	1.067	1.131	0.428	0.707	22.80	0.950	0.584	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Body										
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram										

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 Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.03	2506.00	39750	0.0	22.10	21.62	1	50	Back	5	0.981	0.277	1.117	0.649	0.309	0.406	21.40	0.550	0.344	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.02	2549.50	40185	0.0	22.10	21.70	1	50	Back	5	0.740	0.327	1.096	0.811	0.369	0.507	21.40	0.690	0.431	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.04	2593.00	40620	0.0	22.10	21.77	1	50	Back	5	0.622	0.281	1.079	0.671	0.303	0.419	21.40	0.570	0.356	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.05	2636.50	41055	0.0	22.10	21.82	1	50	Back	5	0.557	0.254	1.117	0.822	0.284	0.389	21.40	0.530	0.331	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.03	2680.00	41490	0.0	22.10	21.85	1	50	Back	5	0.598	0.273	1.059	0.633	0.289	0.396	21.40	0.540	0.338	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.01	2506.00	39750	0.0	22.10	21.69	50	25	Back	5	0.525	0.262	1.099	0.777	0.289	0.361	21.40	0.490	0.306	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.02	2549.50	40185	0.0	22.10	21.70	50	25	Back	5	0.440	0.212	1.081	0.476	0.258	0.296	21.40	0.400	0.250	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.02	2593.00	40620	0.0	22.10	21.79	50	50	Back	5	0.613	0.279	1.074	0.658	0.300	0.411	21.40	0.560	0.350	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.02	2636.50	41055	0.0	22.10	21.81	50	25	Back	5	0.539	0.248	1.119	0.603	0.278	0.377	21.40	0.510	0.319	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.04	2680.00	41490	0.0	22.10	21.83	50	25	Back	5	0.570	0.263	1.064	0.613	0.280	0.383	21.40	0.520	0.325	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.01	2593.00	40620	0.0	22.10	21.76	100	0	Back	5	0.615	0.279	1.081	0.665	0.302	0.416	21.40	0.560	0.350	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.01	2680.00	41490	0.0	22.10	21.85	1	50	Top	5	0.600	0.300	1.059	0.600	0.300	0.400	21.40	0.600	0.400	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.09	2680.00	41490	0.0	22.10	21.83	50	25	Top	5	0.001	0.000	1.064	0.001	0.000	0.001	21.40	0.000	0.000	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.01	2506.00	39750	0.0	22.10	21.62	1	50	Bottom	5	0.810	0.356	1.117	0.905	0.388	0.566	21.40	0.770	0.481	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.02	2549.50	40185	0.0	22.10	21.70	1	50	Bottom	5	0.408	0.249	1.096	0.395	0.412	0.627	21.40	0.840	0.523	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.01	2593.00	40620	0.0	22.10	21.77	1	50	Bottom	5	0.930	0.398	1.079	0.993	0.429	0.621	21.40	0.840	0.525	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.02	2636.50	41055	0.0	22.10	21.82	1	50	Bottom	5	0.943	0.403	1.117	1.053	0.450	0.658	21.40	0.890	0.556	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.01	2680.00	41490	0.0	22.10	21.90	1	50	Bottom	5	1.000	0.466	1.059	1.154	0.493	0.721	21.40	0.960	0.613	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.01	2506.00	39750	0.0	22.10	21.69	50	25	Bottom	5	0.795	0.349	1.099	0.874	0.384	0.546	21.40	0.740	0.463	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.01	2549.50	40185	0.0	22.10	21.76	50	25	Bottom	5	0.906	0.394	1.081	0.979	0.426	0.612	21.40	0.830	0.519	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.00	2593.00	40620	0.0	22.10	21.79	50	25	Bottom	5	0.819	0.386	1.074	0.987	0.425	0.617	21.40	0.840	0.525	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.00	2636.50	41055	0.0	22.10	21.81	50	25	Bottom	5	0.930	0.397	1.119	1.041	0.444	0.651	21.40	0.880	0.550	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.01	2680.00	41490	0.0	22.10	21.89	50	0	Bottom	5	1.020	0.436	1.099	1.132	0.479	0.708	21.40	0.960	0.600	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.07	2680.00	41490	0.0	22.10	21.83	50	25	Bottom	5	1.110	0.475	1.064	1.181	0.505	0.728	21.40	1.000	0.625	
Body	LTE Band 41	20	QPSK	2b	7610L	1.2.3.1	0.01	2680.00	41490	0.0	23.70	23.19	50	25	Bottom	5	0.993	0.420	1.125	1.117	0.473	0.698	23.00	0.950	0.594	
Body	LTE Band 41	20	QPSK	2b	7610L	1.2.3.1	0.00	2680.00	41490	0.0	23.70	23.20	50	0	Bottom	5	0.978	0.413	1.122	1.097	0.463	0.686	23.00	0.930	0.581	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	0.00	2593.00	40620	0.0	22.10	21.76	100	0	Bottom	5	0.617	0.269	1.081	0.607	0.311	0.429	21.40	0.530	0.340	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.05	2680.00	41490	0.0	22.10	21.85	1	50	Right	5	0.068	0.036	1.059	0.072	0.038	0.045	21.40	0.060	0.038	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.13	2680.00	41490	0.0	22.10	21.83	50	25	Right	5	0.068	0.036	1.064	0.072	0.038	0.045	21.40	0.060	0.038	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.12	2680.00	41490	0.0	22.10	21.83	1	50	Left	5	0.068	0.036	1.059	0.072	0.038	0.045	21.40	0.060	0.038	
Body	LTE Band 41	20	QPSK	2b	7610L	1.1.5.8	-0.15	2680.00	41490	0.0	22.10	21.83	50	25	Left	5	0.068	0.036	1.064	0.072	0.038	0.045	21.40	0.060	0.038	
Body	LTE Band 41	20	QPSK	7b	7610L	1.1.5.8	0.01	2660.20	41292	0.0	23.50	22.99	50	0	Bottom	5	0.960	0.399	1.125	1.080	0.449	0.675	21.40	0.910	0.560	
Body	LTE Band 41	20	QPSK	7b	7610L	1.2.3.1	-0.01	2680.00	41490	0.0	23.70	23.14	50	0	Bottom	5	0.989	0.414	1.138	1.125	0.471	0.703	23.00	0.950	0.594	
ANSI/IEEE C63.195-1 SAFETY LIMIT																	Body									
Uncontrolled Exposure/General Population																	averaged over 1gms									
																	1.6 W/(m ²)									

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

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

Note: Green entry represents HPUE measurement

Table 10-41 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]	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 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.03	2506.00	39750	0.0	19.20	19.13	1	50	Back	5	0.392	0.160	1.016	0.398	0.163	0.249	18.70	0.350	0.219	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2636.50	41055	0.0	21.90	21.44	1	50	Back	5	0.537	0.242	1.112	0.597	0.269	0.373	21.40	0.520	0.325	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.06	2680.00	41490	0.0	21.90	21.50	1	50	Back	5	0.244	0.209	1.096	0.815	0.221	0.329	21.40	0.720	0.460	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2506.00	39750	0.0	19.20	19.14	50	50	Back	5	0.414	0.169	1.054	0.420	0.171	0.263	18.70	0.370	0.231	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.02	2636.50	41055	0.0	21.90	21.53	50	0	Back	5	0.582	0.263	1.089	0.634	0.286	0.396	21.40	0.560	0.350	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.03	2680.00	41490	0.0	21.90	21.55	50	50	Back	5	0.744	0.307	1.084	0.839	0.313	0.521	21.40	0.740	0.463	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2680.00	41490	0.0	21.90	21.44	100	0	Back	5	0.739	0.293	1.112	0.822	0.326	0.514	21.40	0.720	0.450	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2506.00	39750	0.0	19.20	19.13	1	50	Top	5	0.548	0.216	1.016	0.557	0.219	0.348	18.70	0.490	0.306	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.02	2549.50	40185	0.0	19.20	19.06	1	50	Top	5	0.740	0.289	1.057	0.782	0.305	0.499	18.70	0.690	0.431	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2593.00	40620	0.0	19.20	19.08	1	50	Top	5	0.910	0.393	1.062	0.957	0.369	0.598	18.70	0.840	0.525	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.03	2636.50	41055	0.0	21.90	21.44	1	50	Top	5	0.778	0.292	1.112	0.865	0.325	0.541	21.40	0.760	0.475	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.00	2680.00	41490	0.0	21.90	21.50	1	50	Top	5	1.000	0.384	1.096	1.129	0.411	0.706	21.40	0.990	0.619	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2506.00	39750	0.0	19.20	19.14	50	50	Top	5	0.579	0.228	1.014	0.587	0.231	0.367	18.70	0.520	0.325	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.05	2549.50	40185	0.0	19.20	19.13	50	25	Top	5	0.739	0.289	1.016	0.751	0.294	0.469	18.70	0.660	0.411	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.04	2593.00	40620	0.0	19.20	19.09	50	25	Top	5	0.817	0.393	1.042	0.950	0.366	0.594	18.70	0.830	0.519	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.01	2636.50	41055	0.0	21.90	21.53	50	0	Top	5	0.729	0.292	1.084	0.634	0.317	0.521	21.40	0.740	0.463	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.02	2680.00	41490	0.0	21.90	21.55	50	50	Top	5	0.955	0.394	1.084	1.138	0.447	0.711	21.40	1.000	0.621	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.2.3.1	0.00	2680.00	41490	0.0	23.50	22.84	50	0	Top	5	0.951	0.338	1.154	1.005	0.393	0.665	23.00	0.940	0.588	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.2.3.1	0.00	2680.00	41490	0.0	23.50	22.81	50	0	Top	5	0.951	0.338	1.154	1.005	0.393	0.665	23.00	0.940	0.588	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.00	2680.00	41490	0.0	21.90	21.49	50	0	Top	5	1.000	0.369	1.099	1.099	0.466	0.687	21.40	0.970	0.606	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.00	2680.00	41490	0.0	21.90	21.44	100	0	Top	5	0.919	0.363	1.117	1.082	0.424	0.676	21.40	0.950	0.594	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.00	2680.00	41490	0.0	21.90	21.48	50	0	Top	5	0.919	0.363	1.117	1.082	0.424	0.676	21.40	0.950	0.594	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.10	2680.00	41490	0.0	21.90	21.55	50	50	Bottom	5	0.019	0.011	1.084	0.021	0.012	0.013	21.40	0.020	0.013	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.06	2506.00	39750	0.0	19.20	19.05	1	50	Right	5	0.107	0.009	1.050	0.130	0.001	0.009	18.70	0.170	0.106	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.00	2680.00	41490	0.0	21.90	21.50	1	50	Right	5	0.545	0.203	1.096	0.466	0.210	0.293	21.40	0.470	0.256	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.01	2506.00	39750	0.0	19.20	19.14	50	50	Right	5	0.493	0.209	1.024	0.195	0.094	0.122	18.70	0.370	0.106	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	0.01	2506.00	39750	0.0	19.20	19.14	50	50	Right	5	0.493	0.209	1.024	0.195	0.094	0.122	18.70	0.370	0.106	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.12	2680.00	41490	0.0	21.90	21.55	50	50	Left	5	0.012	0.018	1.096	0.015	0.020	0.022	21.40	0.010	0.019	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.1.5.8	-0.12	2680.00	41490	0.0	21.90	21.55	50	50	Left	5	0.015	0.019	1.084	0.018	0.021	0.024	21.40	0.010	0.019	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.2.3.1	-0.01	2660.20	41292	0.0	21.90	21.61	50	0	Top	5	1.000	0.371	1.099	1.101	0.399	0.688	21.40	0.970	0.606	
Body	LTE Band 41	20	QPSK	3	GYQ4V	1.2.3.1	0.02	2660.20	41292	0.0	23.50	22.21	50	0	Top	5	0.732	0.263	1.346	0.985	0.354	0.616	23.00	0.870	0.544	
ANSI/IEEE C63.19.82 - SAFETY LIMIT																Body										
Spatial Peak																averaged over 10g (mW/g)										
Uncontrolled Exposure/General Population																										

Table 10-42 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 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g 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 41	20	QPSK	4b	93037	1:1.58	-0.02	2506.00	39750	0.0	21.30	21.03	1	50	Back	5	0.857	0.387	1.064	0.912	0.412	0.570	20.60	0.770	0.481	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.01	2549.50	40185	0.0	21.30	21.09	1	50	Back	5	0.804	0.360	1.050	0.844	0.378	0.528	20.60	0.710	0.444	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.04	2593.00	40620	0.0	21.30	21.22	1	50	Back	5	0.730	0.320	1.039	0.723	0.326	0.452	20.60	0.640	0.381	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.00	2636.50	41055	0.0	21.30	21.06	50	25	Back	5	0.668	0.293	1.065	0.670	0.306	0.544	20.60	0.720	0.466	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.01	2680.00	41490	0.0	21.30	21.12	1	50	Back	5	0.690	0.303	1.042	0.719	0.336	0.449	20.60	0.610	0.381	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.00	2506.00	39750	0.0	21.30	21.06	50	25	Back	5	0.621	0.274	1.067	0.670	0.306	0.544	20.60	0.720	0.466	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.02	2549.50	40185	0.0	21.30	21.14	50	25	Back	5	0.700	0.315	1.058	0.740	0.331	0.463	20.60	0.620	0.383	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.07	2593.00	40620	0.0	21.30	21.17	50	25	Back	5	0.726	0.325	1.050	0.748	0.335	0.468	20.60	0.630	0.394	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.01	2636.50	41055	0.0	21.30	21.06	50	25	Back	5	0.700	0.315	1.057	0.740	0.331	0.463	20.60	0.620	0.388	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.05	2680.00	41490	0.0	21.30	21.14	50	0	Back	5	0.668	0.293	1.058	0.693	0.304	0.433	20.60	0.580	0.363	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.05	2593.00	40620	0.0	21.30	21.15	100	0	Back	5	0.569	0.263	1.055	0.589	0.272	0.368	20.60	0.500	0.313	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.01	2506.00	39750	0.0	21.30	21.03	1	50	Top	5	1.000	0.465	1.064	1.160	0.495	0.725	20.60	0.960	0.613	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.10	2549.50	40185	0.0	21.30	21.09	1	50	Top	5	1.130	0.488	1.050	1.137	0.512	0.742	20.60	1.000	0.625	A14
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.01	2549.50	40185	0.0	21.30	21.08	1	0	Top	5	1.020	0.436	1.102	1.124	0.480	0.701	20.60	0.870	0.544	
Body	LTE Band 41	20	QPSK	4b	93037	1:2.31	-0.02	2549.50	40185	0.0	22.90	22.38	1	0	Top	5	1.000	0.431	1.129	1.148	0.480	0.698	22.20	0.940	0.588	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.01	2593.00	40620	0.0	21.30	21.22	1	50	Top	5	1.100	0.473	1.039	1.121	0.482	0.701	20.60	0.940	0.588	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.02	2636.50	41055	0.0	21.30	20.94	1	50	Top	5	1.060	0.443	1.086	1.151	0.481	0.719	20.60	0.970	0.606	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.02	2680.00	41490	0.0	21.30	21.12	1	50	Top	5	1.110	0.464	1.042	1.157	0.483	0.723	20.60	0.970	0.606	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.00	2506.00	39750	0.0	21.30	21.06	50	25	Top	5	1.000	0.444	1.057	1.085	0.469	0.681	20.60	0.920	0.575	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.04	2549.50	40185	0.0	21.30	21.14	50	25	Top	5	1.140	0.480	1.058	1.163	0.498	0.727	20.60	0.980	0.613	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.00	2593.00	40620	0.0	21.30	21.17	50	25	Top	5	1.080	0.465	1.059	1.112	0.479	0.695	20.60	0.940	0.588	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.02	2636.50	41055	0.0	21.30	21.09	50	25	Top	5	1.090	0.477	1.057	1.099	0.482	0.697	20.60	0.930	0.580	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.04	2680.00	41490	0.0	21.30	21.14	50	0	Top	5	1.130	0.472	1.058	1.173	0.490	0.733	20.60	0.990	0.619	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.02	2593.00	40620	0.0	21.30	21.15	100	0	Top	5	1.100	0.473	1.035	1.139	0.490	0.712	20.60	0.960	0.600	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.05	2680.00	40620	0.0	21.30	21.22	1	50	Bottom	5	0.901	0.399	1.031	0.901	0.401	0.561	20.60	0.800	0.500	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.08	2680.00	40620	0.0	21.30	21.17	50	25	Bottom	5	0.900	0.400	1.050	0.900	0.400	0.560	20.60	0.800	0.500	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.05	2680.00	40620	0.0	21.30	21.22	1	50	Right	5	0.943	0.421	1.033	0.944	0.421	0.588	20.60	0.840	0.525	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.12	2680.00	40620	0.0	21.30	21.17	50	25	Right	5	0.943	0.421	1.033	0.944	0.421	0.588	20.60	0.840	0.525	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.09	2593.00	40620	0.0	21.30	21.22	1	50	Left	5	0.944	0.423	1.033	0.945	0.423	0.588	20.60	0.840	0.525	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	-0.05	2593.00	40620	0.0	21.30	21.17	50	25	Left	5	0.947	0.425	1.030	0.948	0.426	0.590	20.60	0.840	0.525	
Body	LTE Band 41	20	QPSK	4b	93037	1:1.58	0.00	2549.50	40185	0.0	21.30	21.09	1	0	Bottom	5	0.893	0.362	1.202	1.073	0.459	0.671	20.60	0.900	0.563	
Body	LTE Band 41	20	QPSK	4b	93037	1:2.31	0.00	2549.50	40185	0.0	22.90	21.90	1	0	Bottom	5	0.894	0.364	1.259	1.126	0.483	0.704	22.20	0.950	0.594	
ANSI/IEEE C63.1992 - SAFETY LIMIT																										
Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																										

Note: Blue entry represents variability measurement

Note: Green entry represents HPUE measurement

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]	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 Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.12	3603.30	53773	0.0	18.60	17.65	1	50	Back	5	0.409	0.132	1.251	0.509	0.171	0.318	18.20	0.460	0.258	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.05	3603.30	53773	0.0	18.60	17.68	50	25	Back	5	0.361	0.123	1.236	0.446	0.152	0.279	18.20	0.410	0.250	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.02	3603.30	53773	0.0	18.60	17.65	1	50	Top	5	0.000	0.000	1.245	0.000	0.000	0.000	18.20	0.000	0.000	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.12	3603.30	53773	0.0	18.60	17.68	50	25	Top	5	0.000	0.000	1.236	0.000	0.000	0.000	18.20	0.000	0.000	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.00	3560.00	53340	0.0	18.60	17.51	1	50	Bottom	5	0.906	0.300	1.385	1.036	0.344	0.648	18.20	0.940	0.588	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.01	3603.30	53773	0.0	18.60	17.65	1	50	Bottom	5	0.851	0.276	1.245	1.059	0.344	0.662	18.20	0.970	0.606	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.00	3560.00	53340	0.0	18.60	17.50	1	0	Bottom	5	0.765	0.260	1.380	1.067	0.358	0.686	18.20	1.000	0.625	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.04	3646.70	56207	0.0	18.60	17.45	1	50	Bottom	5	0.806	0.261	1.303	1.050	0.340	0.656	18.20	0.960	0.600	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.00	3690.00	56640	0.0	18.60	17.24	1	50	Bottom	5	0.694	0.225	1.368	0.949	0.308	0.593	18.20	0.870	0.544	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.00	3560.00	53340	0.0	18.60	17.68	50	25	Bottom	5	0.819	0.265	1.250	1.024	0.311	0.640	18.20	0.930	0.580	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.00	3603.30	53773	0.0	18.60	17.68	50	25	Bottom	5	0.811	0.275	1.236	1.052	0.340	0.658	18.20	0.960	0.600	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.03	3646.70	56207	0.0	18.60	17.54	50	0	Bottom	5	0.808	0.266	1.276	1.031	0.339	0.644	18.20	0.940	0.588	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.00	3690.00	56640	0.0	18.60	17.37	50	0	Bottom	5	0.696	0.227	1.343	0.937	0.305	0.586	18.20	0.850	0.531	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.00	3603.30	53773	0.0	18.60	17.64	100	0	Bottom	5	0.818	0.269	1.247	1.046	0.342	0.645	18.20	0.940	0.588	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.03	3603.30	53773	0.0	18.60	17.65	1	50	Right	5	0.012	0.004	1.245	0.015	0.005	0.009	18.20	0.010	0.006	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.06	3603.30	53773	0.0	18.60	17.68	50	25	Right	5	0.013	0.006	1.236	0.018	0.007	0.010	18.20	0.010	0.006	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.06	3603.30	53773	0.0	18.60	17.65	1	50	Left	5	0.007	0.002	1.245	0.007	0.002	0.003	18.20	0.008	0.004	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	0.01	3603.30	53773	0.0	18.60	17.68	50	25	Left	5	0.052	0.021	1.236	0.054	0.026	0.040	18.20	0.050	0.038	
Body	LTE Band 48	20	QPSK	1	N3L7H	1:1.58	-0.01	3603.30	53773	0.0	18.60	17.40	1	99	Bottom	5	0.795	0.283	1.138	1.048	0.373	0.655	18.20	0.960	0.600	
ANSI/IEEE C63.1992 - SAFETY LIMIT																Body										
Uncontrolled Exposure / General Population																1.6 W/kg (mW/g) averaged over 1.0 cm										

Table 10-45 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)	Plot #
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.03	3560.00	55340	0.0	18.40	18.33	1	50	Back	5	0.664	0.219	1.016	0.675	0.223	0.422	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.09	3603.30	55773	0.0	18.40	18.11	1	50	Back	5	0.809	0.259	1.069	0.805	0.277	0.541	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	-0.06	3646.70	56207	0.0	18.40	18.17	1	50	Back	5	0.791	0.255	1.054	0.834	0.269	0.521	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	-0.03	3690.00	56640	0.0	18.40	17.94	1	50	Back	5	0.830	0.270	1.112	0.923	0.300	0.577	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	-0.05	3560.00	55340	0.0	18.40	18.31	50	25	Back	5	0.676	0.224	1.021	0.688	0.229	0.430	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3603.30	55773	0.0	18.40	18.21	50	25	Back	5	0.800	0.256	1.045	0.836	0.268	0.523	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3646.70	56207	0.0	18.40	18.17	50	25	Back	5	0.802	0.258	1.054	0.845	0.272	0.528	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3690.00	56640	0.0	18.40	18.22	50	25	Back	5	0.824	0.268	1.042	0.859	0.279	0.537	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.02	3560.00	55340	0.0	18.40	18.30	100	0	Back	5	0.677	0.224	1.023	0.693	0.229	0.433	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3560.00	55340	0.0	18.40	18.33	1	50	Top	5	0.865	0.294	1.016	0.879	0.299	0.549	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.00	3603.30	55773	0.0	18.40	18.11	1	50	Top	5	0.852	0.292	1.069	0.911	0.312	0.569	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	-0.02	3646.70	56207	0.0	18.40	18.17	1	50	Top	5	0.840	0.291	1.054	0.885	0.307	0.553	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.02	3690.00	56640	0.0	18.40	17.94	1	50	Top	5	0.898	0.313	1.112	0.999	0.348	0.624	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3690.00	56640	0.0	18.40	17.87	1	0	Top	5	0.871	0.301	1.130	0.984	0.340	0.615	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.00	3560.00	55340	0.0	18.40	18.31	50	25	Top	5	0.851	0.289	1.021	0.869	0.295	0.543	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3603.30	55773	0.0	18.40	18.21	50	25	Top	5	0.854	0.295	1.045	0.892	0.308	0.558	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	-0.04	3646.70	56207	0.0	18.40	18.17	50	25	Top	5	0.852	0.295	1.054	0.898	0.311	0.561	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3690.00	56640	0.0	18.40	18.22	50	25	Top	5	0.893	0.310	1.042	0.931	0.323	0.582	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.03	3560.00	55340	0.0	18.40	18.30	100	0	Top	5	0.862	0.293	1.023	0.882	0.300	0.551	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3560.00	55340	0.0	18.40	18.33	1	50	Bottom	5	0.002	0.000	1.016	0.002	0.000	0.001	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3560.00	55340	0.0	18.40	18.31	50	25	Bottom	5	0.003	0.000	1.021	0.003	0.000	0.002	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.02	3560.00	55340	0.0	18.40	18.33	1	50	Right	5	0.419	0.149	1.016	0.426	0.147	0.266	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.02	3560.00	55340	0.0	18.40	18.33	1	50	Right	5	0.421	0.170	1.021	0.430	0.174	0.269	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.02	3560.00	55340	0.0	18.40	18.33	1	50	Left	5	0.023	0.010	1.016	0.023	0.010	0.014	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	-0.20	3560.00	55340	0.0	18.40	18.31	50	25	Left	5	0.023	0.010	1.021	0.023	0.010	0.014	
Body	LTE Band 48	20	QPSK	3	65W9G	1:1.58	0.01	3690.00	56640	0.0	18.40	18.21	1	0	Top	5	0.895	0.305	1.045	0.935	0.319	0.584	
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 10-46 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)	Plot #
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.05	3646.70	56207	0.0	18.10	17.60	1	50	Back	5	0.400	0.157	1.122	0.449	0.176	0.281	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.11	3646.70	56207	0.0	18.10	17.90	50	25	Back	5	0.381	0.151	1.047	0.399	0.158	0.249	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.01	3560.00	55340	0.0	18.10	17.53	1	50	Top	5	0.678	0.260	1.140	0.773	0.296	0.483	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.01	3603.30	55773	0.0	18.10	17.52	1	50	Top	5	0.685	0.262	1.143	0.783	0.299	0.489	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.06	3603.30	55773	0.0	18.10	17.39	1	99	Top	5	0.561	0.222	1.178	0.661	0.262	0.413	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.05	3646.70	56207	0.0	18.10	17.60	1	50	Top	5	0.621	0.240	1.122	0.697	0.269	0.436	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.02	3690.00	56640	0.0	18.10	17.45	1	50	Top	5	0.616	0.241	1.161	0.715	0.280	0.447	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.02	3560.00	55340	0.0	18.10	17.64	50	25	Top	5	0.680	0.272	1.112	0.687	0.247	0.417	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.00	3603.30	55773	0.0	18.10	17.61	50	25	Top	5	0.662	0.237	1.119	0.741	0.365	0.463	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.02	3646.70	56207	0.0	18.10	17.90	50	25	Top	5	0.571	0.222	1.047	0.598	0.232	0.374	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.01	3690.00	56640	0.0	18.10	17.55	50	25	Top	5	0.609	0.220	1.135	0.691	0.250	0.432	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.07	3646.70	56207	0.0	18.10	17.60	1	104	Bottom	5	0.000	0.000	1.122	0.000	0.000	0.000	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.07	3646.70	56207	0.0	18.10	17.90	50	25	Bottom	5	0.000	0.000	1.047	0.000	0.000	0.000	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.09	3646.70	56207	0.0	18.10	17.60	1	50	Right	5	0.009	0.003	1.122	0.010	0.003	0.006	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.09	3646.70	56207	0.0	18.10	17.90	50	25	Right	5	0.009	0.003	1.047	0.009	0.003	0.006	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.10	3646.70	56207	0.0	18.10	17.60	1	50	Left	5	0.047	0.030	1.122	0.053	0.034	0.033	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	0.07	3646.70	56207	0.0	18.10	17.90	50	25	Left	5	0.049	0.031	1.047	0.051	0.032	0.032	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.03	3603.30	55773	0.0	18.10	16.58	1	99	Top	5	0.499	0.192	1.294	0.646	0.248	0.404	
Body	LTE Band 48	20	QPSK	4b	93Q37	1:1.58	-0.03	3623.10	55971	0.0	18.10	16.58	1	0	Top	5	0.499	0.192	1.294	0.646	0.248	0.404	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

10.16 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)	Plot #
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	24.70	23.47	1	104	Back	5	0.629	0.360	1.327	0.835	0.478	0.522	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	24.70	23.54	50	28	Back		0.589	0.309	1.306	0.702	0.460	0.438	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	24.70	23.34	100	1	Back	5	0.494	0.290	1.086	0.536	0.315	0.335	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	-0.02	680.50	136100	CP-OFDM	1.5	23.20	22.80	1	1	Back	5	0.341	0.206	1.096	0.74	0.226	0.234	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	24.70	23.47	1	104	Top	5	0.095	0.032	1.277	0.074	0.042	0.045	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	24.70	23.54	50	28	Top		0.030	0.009	1.308	0.031	0.019	0.021	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	24.70	23.47	1	104	Bottom	5	0.627	0.366	1.327	0.832	0.486	0.520	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	24.70	23.54	50	28	Bottom	5	0.604	0.351	1.306	0.789	0.458	0.493	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	24.70	23.54	100	1	Bottom	5	0.344	0.209	1.096	0.74	0.226	0.234	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	24.70	23.47	1	104	Right	5	0.040	0.033	1.327	0.064	0.044	0.040	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	24.70	23.54	50	28	Right	5	0.035	0.024	1.306	0.046	0.031	0.029	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	24.70	23.47	1	104	Left	5	0.202	0.111	1.327	0.138	0.151	0.168	
Body	NR Band n71	20	QPSK	1	65W9G	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.70	23.54	50	28	Left	5	0.199	0.103	1.306	0.260	0.145	0.163	
ANSI/IEEE C95.3-2019 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (W/kg)						
Uncontrolled Region/General Population																		averaged over 6 gsm						

Table 10-48 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 n71	20	QPSK	3	GT4VW	1.1	-0.04	680.50	136100	DFT-s-OFDM	0.0	24.50	23.77	1	53	Back	5	0.976	0.943	1.183	1.155	0.642	0.722	23.90	1.000	0.625	A16
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.04	680.50	136100	DFT-s-OFDM	0.0	24.50	23.78	50	0	Back	5	0.962	0.940	1.180	1.135	0.637	0.709	23.90	0.980	0.611	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.05	680.50	136100	DFT-s-OFDM	0.0	24.50	23.74	100	0	Back	5	0.960	0.941	1.191	1.143	0.644	0.714	23.90	0.990	0.610	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.04	680.50	136100	CP-OFDM	0.3	24.20	23.50	1	1	Back	5	0.839	0.862	1.175	0.986	0.566	0.616	23.90	0.850	0.531	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.50	23.77	1	53	Top	5	0.725	0.626	1.183	0.958	0.535	0.588	23.90	0.770	0.481	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.50	23.78	50	0	Top	5	0.869	0.903	1.180	1.025	0.594	0.594	23.90	0.890	0.558	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.50	23.74	100	0	Top	5	0.869	0.935	1.191	1.083	0.637	0.677	23.90	0.940	0.588	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.50	23.77	1	53	Bottom	5	0.920	0.900	1.183	0.900	0.000	0.000	23.90	0.900	0.000	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.02	680.50	136100	DFT-s-OFDM	0.0	24.50	23.78	50	0	Bottom	5	0.900	0.900	1.180	0.900	0.000	0.000	23.90	0.900	0.000	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.01	680.50	136100	DFT-s-OFDM	0.0	24.50	23.77	1	53	Right	5	0.280	0.387	1.183	0.343	0.198	0.214	23.90	0.300	0.188	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.02	680.50	136100	DFT-s-OFDM	0.0	24.50	23.78	50	0	Right	5	0.285	0.133	1.180	0.313	0.181	0.196	23.90	0.270	0.169	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.09	680.50	136100	DFT-s-OFDM	0.0	24.50	23.77	1	53	Left	5	0.000	0.000	1.183	0.000	0.000	0.000	23.90	0.000	0.000	
Body	NR Band n71	20	QPSK	3	GT4VW	1.1	-0.00	680.50	136100	DFT-s-OFDM	0.0	24.50	23.78	50	0	Left	5	0.000	0.000	1.180	0.000	0.000	0.000	23.90	0.000	0.000	
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																											

10.17 NR Band n12 Standalone SAR

Table 10-49 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 n12	15	QPSK	1	76J6L	1.1	-0.04	707.50	141500	DFT-s-OFDM	0.0	24.70	24.18	1	40	Back	5	1.005	0.572	1.127	1.150	0.645	0.719	24.00	0.970	0.606	A17
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.00	707.50	141500	DFT-s-OFDM	0.0	24.70	24.10	36	22	Back	5	1.050	0.586	1.125	1.181	0.659	0.738	24.00	1.000	0.625	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.00	707.50	141500	DFT-s-OFDM	1.0	23.70	23.60	75	0	Back	5	0.889	0.930	1.023	0.909	0.513	0.568	23.00	0.770	0.481	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.00	707.50	141500	CP-OFDM	1.5	23.20	23.11	1	1	Back	5	0.713	0.402	1.021	0.728	0.409	0.455	22.50	0.620	0.389	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.00	707.50	141500	DFT-s-OFDM	0.0	24.70	24.18	1	40	Top	5	0.623	0.615	1.127	0.628	0.017	0.016	24.00	0.020	0.013	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.11	707.50	141500	DFT-s-OFDM	0.0	24.70	24.19	36	22	Top	5	0.925	0.917	1.125	0.928	0.019	0.018	24.00	0.020	0.013	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.00	707.50	141500	DFT-s-OFDM	0.0	24.70	24.18	1	40	Bottom	5	0.717	0.447	1.127	0.853	0.504	0.533	24.00	0.720	0.450	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.00	707.50	141500	DFT-s-OFDM	0.0	24.70	24.19	36	22	Bottom	5	0.882	0.118	1.125	0.902	0.583	0.630	24.00	0.840	0.525	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.03	707.50	141500	DFT-s-OFDM	1.0	23.70	23.60	75	0	Bottom	5	0.807	0.472	1.023	0.826	0.483	0.516	23.00	0.700	0.438	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.09	707.50	141500	DFT-s-OFDM	0.0	24.70	24.18	1	40	Right	5	0.072	0.048	1.127	0.081	0.054	0.051	24.00	0.070	0.044	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.06	707.50	141500	DFT-s-OFDM	0.0	24.70	24.19	36	22	Right	5	0.076	0.050	1.125	0.086	0.056	0.064	24.00	0.070	0.044	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.08	707.50	141500	DFT-s-OFDM	0.0	24.70	24.18	1	40	Left	5	0.322	0.199	1.127	0.363	0.224	0.227	24.00	0.310	0.194	
Body	NR Band n12	15	QPSK	1	76J6L	1.1	-0.01	707.50	141500	DFT-s-OFDM	0.0	24.70	24.19	36	22	Left	5	0.821	0.198	1.125	0.861	0.223	0.226	24.00	0.310	0.194	
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																											

Table 10-50 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 n12	15	QPSK	3	93037	1.1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.00	24.07	1	40	Back	5	0.802	0.462	1.129	0.934	0.572	0.621	24.30	0.840	0.525	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.00	23.96	36	22	Back	5	0.816	0.475	1.171	1.077	0.604	0.648	24.30	0.880	0.550	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.00	707.50	141500	DFT-s-OFDM	0.3	24.70	23.94	75	0	Back	5	0.811	0.471	1.193	0.966	0.604	0.640	24.00	0.820	0.513	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.00	707.50	141500	DFT-s-OFDM	0.0	25.00	24.07	1	40	Top	5	0.884	0.521	1.129	1.056	0.448	0.484	24.30	0.930	0.580	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.00	23.96	36	22	Top	5	0.926	0.547	1.171	1.177	0.695	0.736	24.30	1.000	0.625	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.01	707.50	141500	DFT-s-OFDM	0.3	24.70	23.94	75	0	Top	5	0.868	0.510	1.196	1.028	0.461	0.496	24.00	0.900	0.560	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.01	707.50	141500	CP-OFDM	0.8	24.20	24.00	1	1	Top	5	0.781	0.467	1.067	0.818	0.478	0.511	23.50	0.690	0.431	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.00	24.07	1	40	Bottom	5	0.909	0.906	1.129	0.911	0.007	0.007	24.30	0.910	0.006	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.18	707.50	141500	DFT-s-OFDM	0.0	25.00	23.96	36	22	Bottom	5	0.920	0.906	1.171	0.913	0.008	0.008	24.30	0.910	0.006	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.04	707.50	141500	DFT-s-OFDM	0.0	25.00	24.07	1	40	Right	5	0.209	0.118	1.129	0.219	0.159	0.162	24.30	0.220	0.138	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.06	707.50	141500	DFT-s-OFDM	0.0	25.00	23.96	36	22	Right	5	0.228	0.141	1.171	0.230	0.179	0.181	24.30	0.230	0.156	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.19	707.50	141500	DFT-s-OFDM	0.0	25.00	24.07	1	40	Left	5	0.031	0.021	1.129	0.041	0.026	0.026	24.30	0.030	0.019	
Body	NR Band n12	15	QPSK	3	93037	1.1	-0.18	707.50	141500	DFT-s-OFDM	0.0	25.00	23.96	36	22	Left	5	0.038	0.024	1.171	0.048	0.031	0.030	24.30	0.040	0.025	
#NOISE FLOOR 100% SAFETY LIMIT																					Body						
Spatial Peak												1.6 W/kg (mW/g)															
Uncontrolled General Population												averaged over 10gm															

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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n14	10	QPSK	3	93037	1:1	-0.03	793.00	158000	DFT-s-OFDM	0.0	23.50	22.93	1	30	Back	5	0.805	0.461	1.140	0.918	0.503	0.574	23.30	0.800	0.538	
Body	NR Band n14	10	QPSK	3	93037	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	23.50	22.92	25	27	Back	5	0.922	0.507	1.143	1.065	0.580	0.666	23.30	1.000	0.625	
Body	NR Band n14	10	QPSK	3	93037	1:1	-0.00	793.00	158000	DFT-s-OFDM	0.0	23.50	22.91	50	0	Back	5	0.805	0.463	1.172	1.037	0.578	0.648	23.30	0.970	0.600	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.01	793.00	158000	CP-OFDM	0.0	23.50	23.12	1	1	Back	5	0.858	0.471	1.067	0.915	0.503	0.572	23.30	0.860	0.538	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.03	793.00	158000	DFT-s-OFDM	0.0	23.50	22.93	1	30	Top	5	0.726	0.420	1.040	0.828	0.470	0.538	23.30	0.780	0.485	
Body	NR Band n14	10	QPSK	3	93037	1:1	-0.05	793.00	158000	DFT-s-OFDM	0.0	23.50	22.92	25	27	Top	5	0.791	0.464	1.143	0.904	0.530	0.603	23.30	0.850	0.533	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.03	793.00	158000	DFT-s-OFDM	0.0	23.50	23.81	50	0	Top	5	0.852	0.480	1.172	0.975	0.575	0.609	23.30	0.920	0.575	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.11	793.00	158000	DFT-s-OFDM	0.0	23.50	22.93	1	30	Bottom	5	0.928	0.504	1.140	1.066	0.598	0.628	23.30	1.000	0.625	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.10	793.00	158000	DFT-s-OFDM	0.0	23.50	22.92	25	27	Bottom	5	0.907	0.501	1.143	1.042	0.624	0.626	23.30	0.940	0.625	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.13	793.00	158000	DFT-s-OFDM	0.0	23.50	22.93	1	30	Right	5	0.946	0.509	1.140	1.166	0.610	0.624	23.30	1.040	0.625	
Body	NR Band n14	10	QPSK	3	93037	1:1	-0.11	793.00	158000	DFT-s-OFDM	0.0	23.50	22.91	25	27	Right	5	0.818	0.433	1.143	0.949	0.512	0.556	23.30	0.780	0.544	
Body	NR Band n14	10	QPSK	3	93037	1:1	0.08	793.00	158000	DFT-s-OFDM	0.0	23.50	22.93	1	30	Left	5	0.907	0.508	1.140	1.066	0.643	0.643	23.30	0.960	0.638	
Body	NR Band n14	10	QPSK	3	93037	1:1	-0.07	793.00	158000	DFT-s-OFDM	0.0	23.50	22.92	25	27	Left	5	0.683	0.408	1.143	0.689	0.432	0.031	23.30	0.030	0.031	

ANSI/IEEE C63.19-2012 - SARV LIMIT

Spatial Peak

Uncontrolled Exposure/General Population

1.6 W/kg (mW/g)

averaged over 1 gram

10.19 NR Band n26 Standalone SAR

Table 10-53 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 n26	20	QPSK	1	65096	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	23.90	22.99	1	1	Back	5	0.853	0.494	1.233	1.054	0.609	0.659	23.40	0.930	0.581	
Body	NR Band n26	20	QPSK	1	65096	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	23.90	22.92	50	28	Back	5	0.845	0.484	1.253	1.059	0.606	0.662	23.40	0.940	0.588	
Body	NR Band n26	20	QPSK	1	65096	1:1	-0.00	831.50	166300	DFT-s-OFDM	0.2	23.70	22.99	100	0	Back	5	0.840	0.479	1.202	1.139	0.648	0.706	23.30	1.000	0.620	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.01	831.50	166300	CP-OFDM	0.7	23.20	22.99	1	1	Back	5	0.890	0.505	1.081	0.962	0.550	0.601	22.70	0.850	0.531	
Body	NR Band n26	20	QPSK	1	65096	1:1	-0.16	831.50	166300	DFT-s-OFDM	0.0	23.90	22.99	1	1	Top	5	0.851	0.504	1.233	1.026	0.617	0.616	23.40	0.920	0.613	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	23.90	22.92	50	28	Top	5	0.907	0.502	1.253	1.021	0.615	0.615	23.40	0.920	0.613	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	23.90	22.99	1	1	Bottom	5	0.904	0.505	1.233	1.045	0.625	0.666	23.40	0.960	0.613	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	23.90	22.92	50	28	Bottom	5	0.900	0.509	1.253	1.077	0.590	0.548	23.40	0.780	0.485	
Body	NR Band n26	20	QPSK	1	65096	1:1	-0.00	831.50	166300	DFT-s-OFDM	0.2	23.70	22.99	100	0	Bottom	5	0.849	0.473	1.202	1.020	0.599	0.638	23.30	0.960	0.585	
Body	NR Band n26	20	QPSK	1	65096	1:1	-0.16	831.50	166300	DFT-s-OFDM	0.0	23.90	22.99	1	1	Right	5	0.905	0.502	1.233	1.043	0.628	0.627	23.40	0.940	0.625	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.10	831.50	166300	DFT-s-OFDM	0.0	23.90	22.92	50	28	Right	5	0.905	0.502	1.253	1.044	0.628	0.628	23.40	0.940	0.625	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	23.90	22.99	1	1	Left	5	0.880	0.483	1.233	0.844	0.561	0.578	23.40	0.780	0.544	
Body	NR Band n26	20	QPSK	1	65096	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	23.90	22.92	50	28	Left	5	0.775	0.465	1.253	0.845	0.507	0.516	23.40	0.780	0.544	

ANSI/IEEE C63.19-2012 - SARV LIMIT

Spatial Peak

Uncontrolled Exposure/General Population

1.6 W/kg (mW/g)

averaged over 1 gram

Table 10-54 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 n26	20	QPSK	3	N18.7H	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	24.20	23.99	1	104	Back	5	0.883	0.509	1.051	1.036	0.586	0.635	23.80	0.920	0.575	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	-0.30	831.50	166300	DFT-s-OFDM	0.0	24.20	23.97	100	0	Back	5	0.953	0.551	1.130	1.021	0.621	0.673	23.80	0.970	0.606	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.20	23.57	100	0	Back	5	0.850	0.487	1.156	0.983	0.575	0.614	23.80	0.890	0.566	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.20	23.39	100	0	Back	5	0.863	0.541	1.155	1.107	0.623	0.693	23.80	1.000	0.620	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	24.20	23.67	50	56	Top	5	0.855	0.480	1.130	0.968	0.548	0.604	23.80	0.870	0.544	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	24.20	23.57	100	0	Top	5	0.843	0.482	1.156	0.975	0.557	0.609	23.80	0.880	0.550	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.01	831.50	166300	CP-OFDM	0.0	24.20	23.66	1	1	Top	5	0.792	0.496	1.132	0.851	0.496	0.532	23.80	0.770	0.481	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	24.20	23.98	1	104	Bottom	5	0.915	0.504	1.151	0.924	0.616	0.615	23.80	0.920	0.613	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	24.20	23.67	50	56	Bottom	5	0.928	0.503	1.130	1.032	0.621	0.620	23.80	0.930	0.619	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	-0.15	831.50	166300	DFT-s-OFDM	0.0	24.20	23.39	100	0	Bottom	5	0.939	0.552	1.151	0.974	0.575	0.671	23.80	0.950	0.586	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	24.20	23.67	50	56	Right	5	0.775	0.477	1.130	0.931	0.531	0.594	23.80	0.780	0.544	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	24.20	23.69	100	0	Left	5	0.928	0.502	1.151	0.944	0.628	0.626	23.80	0.940	0.620	
Body	NR Band n26	20	QPSK	3	N18.7H	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	24.20	23.57	50	56	Left	5	0.926	0.504	1.130	0.941	0.627	0.626	23.80	0.940	0.625	

ANSI/IEEE C63.19-2012 - SARV LIMIT

Spatial Peak

Uncontrolled Exposure/General Population

1.6 W/kg (mW/g)

averaged over 1 gram

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	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 n5	20	QPSK	1	93037	1:1	-0.13	836.50	167300	DFT-s-OFDM	0.0	23.90	23.26	1	1	Back	5	0.902	0.519	1.159	1.045	0.602	0.653	23.80	1.000	0.625	A20
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.90	23.44	50	28	Back	5	0.867	0.497	1.112	0.944	0.553	0.603	23.80	0.920	0.575	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.90	23.44	50	28	Back	5	0.867	0.497	1.112	0.944	0.553	0.603	23.80	0.920	0.575	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	CP-OFDM	0.7	23.20	23.20	1	1	Back	5	0.850	0.486	1.080	0.860	0.496	0.518	23.10	0.820	0.510	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	23.90	23.26	1	1	Top	5	0.918	0.502	1.159	1.021	0.614	0.633	23.80	0.920	0.625	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	23.90	23.44	50	28	Top	5	0.910	0.498	1.112	0.937	0.550	0.600	23.80	0.920	0.580	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.90	23.26	1	1	Bottom	5	0.839	0.476	1.159	0.972	0.552	0.608	23.80	0.930	0.581	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.90	23.44	50	28	Bottom	5	0.867	0.497	1.112	0.944	0.553	0.603	23.80	0.920	0.575	
Body	NR Band n5	20	QPSK	1	93037	1:1	0.00	836.50	167300	DFT-s-OFDM	0.2	23.70	23.25	100	0	Bottom	5	0.813	0.467	1.109	0.902	0.507	0.564	23.60	0.860	0.538	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.90	23.26	1	1	Right	5	0.914	0.502	1.159	0.989	0.625	0.640	23.80	0.940	0.625	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	23.90	23.44	50	28	Right	5	0.862	0.492	1.109	0.940	0.550	0.600	23.80	0.920	0.575	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.90	23.26	1	1	Left	5	0.280	0.178	1.159	0.335	0.206	0.209	23.80	0.320	0.200	
Body	NR Band n5	20	QPSK	1	93037	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.90	23.44	50	28	Left	5	0.255	0.159	1.121	0.292	0.173	0.178	23.80	0.270	0.160	
ANSI/IEEE C63.17-19E SAFETY LIMIT																		Body									
Uncontrolled/General Population																		1.6 W/kg (mW/g) stored over 1 gram									

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	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	1	GY04V	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.27	1	1	Back	5	0.321	0.173	1.079	0.346	0.187	0.216	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.22	36	43	Back	5	0.376	0.199	1.091	0.410	0.217	0.256	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.27	1	1	Top	5	0.000	0.000	1.079	0.000	0.000	0.000	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.22	36	43	Top	5	0.002	0.000	1.091	0.001	0.001	0.001	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.27	1	1	Bottom	5	0.152	0.275	1.079	0.156	0.297	0.373	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.22	36	43	Bottom	5	0.649	0.321	1.091	0.708	0.350	0.443	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.01	1702.50	340500	CP-OFDM	0.0	19.60	19.36	1	1	Bottom	5	0.565	0.280	1.057	0.597	0.296	0.373	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	-0.10	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.27	1	1	Right	5	0.051	0.030	1.079	0.054	0.031	0.035	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.22	36	43	Right	5	0.046	0.026	1.091	0.050	0.028	0.031	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.27	1	1	Left	5	0.007	0.004	1.079	0.008	0.004	0.005	
Body	NR Band n70	15	QPSK	1	GY04V	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	19.60	19.22	36	43	Left	5	0.009	0.004	1.091	0.010	0.004	0.006	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) 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	MPRR [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	2b	93037	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.72	1	1	Back	5	0.452	0.219	1.197	0.541	0.262	0.338	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.85	36	0	Back	5	0.554	0.264	1.161	0.643	0.307	0.402	
Body	NR Band n70	15	QPSK	2b	93037	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.72	1	1	Top	5	0.001	0.000	1.197	0.001	0.000	0.001	
Body	NR Band n70	15	QPSK	2b	93037	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.85	36	0	Top	5	0.003	0.001	1.161	0.003	0.001	0.002	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.72	1	1	Bottom	5	0.784	0.379	1.197	0.938	0.454	0.586	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.07	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.85	36	0	Bottom	5	0.773	0.374	1.161	0.897	0.434	0.561	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.70	25	0	Bottom	5	0.181	0.080	1.197	0.187	0.090	0.120	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.13	1702.50	340500	CP-OFDM	0.0	20.50	19.92	1	1	Bottom	5	0.735	0.355	1.143	0.840	0.406	0.525	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.72	1	1	Right	5	0.036	0.021	1.197	0.043	0.025	0.027	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.85	36	0	Right	5	0.042	0.024	1.161	0.048	0.026	0.031	
Body	NR Band n70	15	QPSK	2b	93037	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.72	1	1	Left	5	0.006	0.003	1.197	0.007	0.004	0.004	
Body	NR Band n70	15	QPSK	2b	93037	1:1	-0.18	1702.50	340500	DFT-s-OFDM	0.0	20.50	19.85	36	0	Left	5	0.007	0.004	1.161	0.008	0.005	0.005	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-59 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 n70	15	QPSK	3	N817H	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.17	1	1	Back	5	0.475	0.237	1.156	0.549	0.274	0.343	17.80	0.320	0.325	
Body	NR Band n70	15	QPSK	3	N817H	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.40	36	0	Back	5	0.491	0.246	1.148	0.564	0.282	0.353	17.80	0.340	0.338	
Body	NR Band n70	15	QPSK	3	N817H	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.17	1	1	Top	5	0.714	0.374	1.156	0.895	0.432	0.509	17.80	0.890	0.531	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.40	36	0	Top	5	0.851	0.445	1.148	0.982	0.476	0.614	17.80	0.930	0.581	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.34	75	0	Top	5	0.925	0.440	1.164	1.053	0.513	0.658	17.80	1.000	0.620	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.01	1702.50	340500	CP-OFDM	0.0	18.00	17.45	1	1	Top	5	0.719	0.381	1.135	0.816	0.398	0.510	17.80	0.770	0.481	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.17	1	1	Bottom	5	0.008	0.003	1.156	0.009	0.006	0.006	17.80	0.010	0.006	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.40	36	0	Bottom	5	0.008	0.004	1.148	0.009	0.005	0.006	17.80	0.010	0.006	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.17	1	1	Right	5	0.157	0.089	1.156	0.181	0.103	0.113	17.80	0.170	0.106	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.40	36	0	Right	5	0.166	0.090	1.148	0.191	0.109	0.120	17.80	0.180	0.115	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.17	1	1	Left	5	0.009	0.005	1.156	0.010	0.006	0.006	17.80	0.009	0.006	
Body	NR Band n70	15	QPSK	3	N817H	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	18.00	17.40	36	0	Left	5	0.009	0.005	1.148	0.010	0.006	0.006	17.80	0.009	0.006	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-60 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)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.93	1	77	Back	5	0.540	0.265	1.167	0.630	0.309	0.394	18.10	0.520	0.344	
Body	NR Band n70	15	QPSK	4b	93037	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.97	36	22	Back	5	0.510	0.260	1.156	0.930	0.384	0.389	18.10	0.920	0.325	
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.12	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.83	1	77	Top	5	0.895	0.430	1.167	1.044	0.512	0.653	18.10	0.910	0.569	
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.87	36	22	Top	5	0.777	0.380	1.156	0.898	0.439	0.545	18.10	0.790	0.494	
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.14	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.80	75	0	Top	5	0.973	0.474	1.175	1.143	0.557	0.714	18.10	1.000	0.625	
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.07	1702.50	340500	CP-OFDM	0.0	18.60	18.03	1	1	Top	5	0.977	0.478	1.140	1.114	0.545	0.695	18.10	0.970	0.606	A21
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.13	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.83	1	77	Bottom	5	0.001	0.001	1.167	0.001	0.001	0.001	18.10	0.000	0.001	
Body	NR Band n70	15	QPSK	4b	93037	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.87	36	22	Bottom	5	0.009	0.000	1.156	0.000	0.000	0.000	18.10	0.000	0.000	
Body	NR Band n70	15	QPSK	4b	93037	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.83	1	77	Right	5	0.005	0.002	1.167	0.006	0.002	0.004	18.10	0.010	0.006	
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.07	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.97	36	22	Right	5	0.006	0.003	1.156	0.007	0.003	0.004	18.10	0.010	0.006	
Body	NR Band n70	15	QPSK	4b	93037	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.93	1	77	Left	5	0.049	0.020	1.167	0.057	0.013	0.016	18.10	0.010	0.011	
Body	NR Band n70	15	QPSK	4b	93037	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	18.60	17.97	36	22	Left	5	0.063	0.024	1.156	0.070	0.020	0.024	18.10	0.040	0.020	
ANSI/IEEE C63.19-2: SAFETY LIMIT																		Body									
Uncontrolled Exposure/General Population																		Reported 1g SAR [W/kg]									
																		1.6 W/kg (mW/g)									

Table 10-62 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DFR [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 [W/kg]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Pict #
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.01	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.84	1	1	Back	5	0.620	0.209	1.164	0.722	0.348	0.451	19.50	0.430	0.381	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.07	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.83	108	108	Back	5	0.558	0.274	1.140	0.636	0.312	0.398	19.50	0.440	0.336	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.07	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.83	108	108	Back	5	0.567	0.280	1.140	0.636	0.312	0.398	19.50	0.440	0.336	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.05	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.93	108	108	Top	5	0.606	0.303	1.140	0.657	0.303	0.404	19.50	0.430	0.400	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.11	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.84	1	1	Bottom	5	0.587	0.480	1.140	0.564	0.564	0.726	19.50	0.460	0.564	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.11	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.93	108	108	Bottom	5	1.430	0.509	1.140	1.174	0.576	0.734	19.50	0.610	0.625	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.05	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.84	1	1	Bottom	5	0.587	0.451	1.140	0.564	0.564	0.680	19.50	0.460	0.564	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.05	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.72	208	208	Bottom	5	0.623	0.453	1.140	0.580	0.580	0.740	19.50	0.460	0.564	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.13	1745.00	349000	CP-OFDM	0.0	-20.50	19.92	1	1	Bottom	5	0.596	0.453	1.143	0.570	0.520	0.669	19.50	0.910	0.910	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.12	1745.00	349000	CP-OFDM	0.0	-20.50	19.84	1	1	Bottom	5	0.629	0.453	1.143	0.570	0.520	0.669	19.50	0.910	0.910	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.21	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.93	108	108	Right	5	0.062	0.030	1.140	0.071	0.041	0.044	19.50	0.040	0.040	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.02	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.93	108	108	Left	5	0.058	0.030	1.184	0.060	0.005	0.006	19.50	0.040	0.040	
Body	NF Band rds	40	QPSK	2b	930317	1.1	-0.02	1745.00	349000	DFT-F-OFDM	0.0	-20.50	19.84	108	108	Left	5	0.058	0.030	1.184	0.060	0.005	0.006	19.50	0.040	0.040	
ARA/RE CWS 1.92 - SAFETY LIMIT Special Peak Uncontrolled Exposure/General Population																					Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement

Table 10-63 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DnR [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 [W/kg]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Reported Exposure Rate [W/kg]	Plot #
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.08	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.47	1	108	Back	5	0.010	0.263	1.130	0.576	0.297	0.360	17.30	0.450	0.305		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.01	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.43	108	54	Back	5	0.074	0.299	1.140	0.614	0.336	0.459	17.30	0.590	0.444		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.02	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.47	1	108	Top	5	0.065	0.447	1.130	1.073	0.478	0.639	17.30	0.870	0.644		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.01	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.43	108	54	Top	5	0.063	0.444	1.140	1.052	0.458	0.658	17.30	0.890	0.564		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.10	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.40	216	0	Top	5	1.030	0.449	1.148	1.182	0.921	0.739	17.30	1.000	0.645		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.08	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.47	1	108	Bottom	5	0.065	0.447	1.130	1.073	0.478	0.639	17.30	0.870	0.644		
Body	NR Band n66	40	QPSK	3	930317	1:1	0.13	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.47	1	108	Bottom	5	0.010	0.005	1.130	0.011	0.006	0.007	17.30	0.010	0.006		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.08	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.43	108	54	Bottom	5	0.010	0.006	1.140	0.011	0.007	0.007	17.30	0.010	0.006		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.14	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.47	1	108	Right	5	0.034	0.354	1.140	0.354	0.187	0.270	17.30	0.188	0.150		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.04	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.43	108	54	Right	5	0.247	0.130	1.140	0.282	0.157	0.176	17.30	0.240	0.150		
Body	NR Band n66	40	QPSK	3	930317	1:1	0.08	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.47	1	108	Left	5	0.000	0.000	1.130	0.000	0.000	0.000	17.30	0.000	0.000		
Body	NR Band n66	40	QPSK	3	930317	1:1	-0.09	1745.00	349000	DFT+S-OFDM	-0.0	18.00	17.43	0288	54	Left	5	0.000	0.000	1.140	0.000	0.000	0.000	17.30	0.000	0.000		
ANSI/IEEE C63.19-2: SAFETY LIMIT																			Body									
Special Peak																			1.6 W/kg (W/kg)									
Uncontrolled Exposure/General Population																			averaged over 1 gram									

Table 10-64 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DFR [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 [SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Exposure Rate [SAR]	Plot #
Body	NR Band n66	40	QPSK	4b	99317	1:1	-0.00	1745.00	349000	DFT-S-OFDM	0.0	18.60	17.98	1	1	Back	5	0.567	0.270	1.153	0.654	0.311	0.409	17.90	0.550	0.344	0.260	
Body	NR Band n66	40	QPSK	4b	99317	1:1	-0.01	1745.00	349000	DFT-S-OFDM	0.0	18.60	18.01	108	108	Back	5	0.411	0.199	1.146	0.471	0.228	0.294	17.90	0.400	0.250	0.195	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.04	1745.00	349000	DFT-S-OFDM	0.0	18.60	17.98	1	1	Top	5	0.933	0.449	1.153	1.064	0.518	0.683	17.90	0.900	0.625	0.480	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.09	1745.00	349000	DFT-S-OFDM	0.0	18.60	18.01	108	108	Top	5	0.893	0.433	1.146	1.033	0.499	0.739	17.90	0.870	0.540	0.410	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.05	1745.00	349000	DFT-S-OFDM	0.0	18.60	17.96	216	0	Top	5	1.020	0.498	1.159	1.182	0.572	0.739	17.90	1.000	0.625	0.480	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.07	1745.00	349000	CP-OFDM	0.0	18.60	18.01	108	108	Bottom	5	0.893	0.433	1.146	1.033	0.499	0.739	17.90	0.870	0.540	0.410	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.07	1745.00	349000	DFT-S-OFDM	0.0	18.60	17.98	1	1	Bottom	5	0.503	0.200	1.153	0.612	0.306	0.308	17.90	0.510	0.300	0.210	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.07	1745.00	349000	DFT-S-OFDM	0.0	18.60	18.01	108	108	Bottom	5	0.006	0.003	1.146	0.007	0.003	0.004	17.90	0.010	0.006	0.006	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.04	1745.00	349000	DFT-S-OFDM	0.0	17.96	11	1	1	Left	5	0.007	0.004	1.146	0.008	0.008	0.008	17.90	0.010	0.006	0.006	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.07	1745.00	349000	DFT-S-OFDM	0.0	18.60	18.01	108	108	Right	5	0.007	0.004	1.146	0.008	0.008	0.008	17.90	0.010	0.006	0.006	
Body	NR Band n66	40	QPSK	4b	99317	1:1	-0.03	1745.00	349000	DFT-S-OFDM	0.0	18.60	17.98	1	1	Left	5	0.051	0.029	1.153	0.059	0.033	0.017	17.90	0.010	0.011	0.011	
Body	NR Band n66	40	QPSK	4b	99317	1:1	0.11	1745.00	349000	DFT-S-OFDM	0.0	18.60	18.01	108	108	Left	5	0.060	0.027	1.146	0.025	0.020	0.019	17.90	0.040	0.020	0.040	
Annoyance C6K1 1920 - SAFETY LIMIT																			Body									
Uncontrolled Exposure/General Population																			1.6 W/kg							averaged over 10 min		

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 DFB [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 10g 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 Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.01	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Back	5	0.512	0.297	1.161	0.618	0.345	0.386	18.70	0.600	0.375	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.80	17.17	108	0	Back	5	0.475	0.274	1.156	0.549	0.313	0.343	18.70	0.330	0.331	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.05	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Top	5	0.009	0.005	1.061	0.003	0.006	0.006	18.70	0.010	0.006	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	-0.09	1882.50	376500	DFT+OFDM	0.0	18.80	17.17	108	0	Top	5	0.011	0.008	1.156	0.013	0.007	0.008	18.70	0.010	0.008	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Bottom	5	0.093	0.451	1.161	1.037	0.500	0.648	18.70	0.020	0.625	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Bottom	5	0.009	0.005	1.061	0.003	0.006	0.006	18.70	0.010	0.006	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Bottom	5	0.009	0.005	1.061	0.003	0.006	0.006	18.70	0.010	0.006	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Bottom	5	0.009	0.005	1.061	0.003	0.006	0.006	18.70	0.010	0.006	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	0.03	1882.50	376500	DFT+OFDM	0.0	18.80	18.17	108	0	Right	5	0.000	0.000	1.156	0.000	0.000	0.000	18.70	0.000	0.000	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	-0.01	1882.50	376500	DFT+OFDM	0.0	18.80	18.15	1	1	Left	5	0.213	0.120	1.161	0.247	0.139	0.154	18.70	0.240	0.150	
Body	NB Band c25	40	QPSK	1	NB7N	1:1	-0.03	1882.50	376500	DFT+OFDM	0.0	18.80	18.17	108	0	Left	5	0.257	0.143	1.156	0.276	0.160	0.180	18.70	0.250	0.181	
ANSI/IEEE C63.19C2-1992 - SAFETY LIMIT																					Body						
Unmodeled General Population																					1.6 mW/g (mW/g) stored over 1 gram						
ANSI/IEEE C63.19C2-1992 - SAFETY LIMIT																					1.6 mW/g (mW/g) stored over 1 gram						

Table 10-66 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DvRft [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]	Pilot #
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.72	1	214	Back	5	0.595	0.284	1.143	0.680	0.325	0.425	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.74	108	0	Back	5	0.586	0.280	1.138	0.667	0.319	0.417	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.72	1	214	Top	5	0.004	0.002	1.143	0.001	0.002	0.003	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.74	108	0	Top	5	0.005	0.003	1.138	0.006	0.003	0.004	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.72	1	214	Bottom	5	0.773	0.373	1.143	0.884	0.426	0.553	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.74	108	0	Bottom	5	0.789	0.377	1.138	0.896	0.429	0.561	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.69	216	0	Bottom	5	0.796	0.381	1.131	0.916	0.441	0.572	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.00	1882.50	376500	CP-OFDM	0.0	19.30	18.73	1	1	Bottom	5	0.824	0.400	1.140	0.939	0.456	0.587	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.13	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.72	1	214	Right	5	0.043	0.024	1.143	0.049	0.027	0.033	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.74	108	0	Right	5	0.011	0.006	1.143	0.012	0.006	0.008	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	0.11	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.72	1	214	Left	5	0.015	0.008	1.143	0.017	0.009	0.011	
Body	NR Band n25	40	QPSK	2b	N3L7H	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	19.30	18.74	108	0	Left	5	0.011	0.006	1.138	0.013	0.007	0.008	
ANSI/IEEE C63.5-1992 - SAFETY LIMIT																								
Spatial Peak																		Body						
Uncontrolled Exposure/General Population																		16 W/kg (mW/g)					averaged over 1 gram	

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	1990	1991	1992	1993	1994	1995
1990	100	100	100	100	100	100
1991	100	100	100	100	100	100
1992	100	100	100	100	100	100
1993	100	100	100	100	100	100
1994	100	100	100	100	100	100
1995	100	100	100	100	100	100

10/16/2024

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Table 10-67 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE1 [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS 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 (SAR)	Simultaneous Turn-on Power [dBm]	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 30g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n25	40	QPSK	3	7696	1:1	-0.04	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.90	1	108	Back	5	0.524	0.255	1.148	0.602	0.293	1.76	16.80	0.510	0.315	0.131	
Body	NR Band n25	40	QPSK	3	7696	1:1	-0.03	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.78	108	54	Back	5	0.529	0.288	1.180	0.624	0.341	1.90	16.80	0.530	0.331	0.135	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.00	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.90	1	108	Top	5	1.020	0.480	1.148	1.171	0.551	1.72	16.80	0.900	0.635	0.635	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.00	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.90	1	108	Top	5	0.965	0.470	1.180	1.139	0.540	1.72	16.80	0.900	0.660	0.660	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.00	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.75	226	0	Top	5	0.984	0.473	1.189	1.182	0.560	1.73	16.80	1.000	0.625	0.625	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.00	1882.50	376500	CH-OFDM	-0.0	17.50	16.85	1	108	Bottom	5	0.983	0.473	1.189	1.182	0.560	1.73	16.80	1.000	0.625	0.625	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.07	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.90	1	108	Bottom	5	0.909	0.400	1.148	0.910	0.006	0.006	16.80	0.010	0.006	0.006	
Body	NR Band n25	40	QPSK	3	7696	1:1	-0.07	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.78	108	54	Bottom	5	0.028	0.004	1.180	0.009	0.005	0.005	16.80	0.010	0.006	0.006	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.00	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.90	1	108	Right	5	0.117	0.059	1.180	0.208	0.100	0.100	16.80	0.120	0.110	0.110	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.03	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.78	108	54	Right	5	0.174	0.093	1.180	0.205	0.110	0.110	16.80	0.170	0.106	0.106	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.03	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.90	1	108	Left	5	0.000	0.000	1.148	0.000	0.000	0.000	16.80	0.000	0.000	0.000	
Body	NR Band n25	40	QPSK	3	7696	1:1	0.00	1882.50	376500	DFT-s-OFDM	-0.0	17.50	16.78	1	108	Left	5	0.000	0.000	1.148	0.000	0.000	0.000	16.80	0.000	0.000	0.000	
ANSI/IEEE C63.11-2019 - SAFETY LIMIT																		Spatial Peak		1.6 W/kg (avg/6g)		1.6 W/kg (avg/6g)		Spatial Peak		1.6 W/kg (avg/6g)		
Uncontrolled Exposure/General Population																		Spatial Peak		1.6 W/kg (avg/6g)		1.6 W/kg (avg/6g)		Spatial Peak		1.6 W/kg (avg/6g)		

Table 10-68 Antenna 4b

[illegible]

10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1

[illegible]

Note: Blue entry represents variability measurement.

Table 10-70 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DUT [dB]	Frequency [MHz]	Channel #	Waveform	MPPE [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 Exposure to Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.03	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.9	1	26	Back	5	0.913	0.434	1.026	0.917	0.445	0.566	19.80	0.760	0.494	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.05	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.41	25	0	Back	5	0.878	0.417	1.021	0.896	0.426	0.560	19.80	0.740	0.476	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.05	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.18	50	0	Back	5	0.889	0.427	1.028	0.914	0.434	0.571	19.80	0.770	0.481	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.10	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.00	100	0	Top	5	0.917	0.460	1.029	0.917	0.460	0.571	19.80	0.800	0.500	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.15	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.43	25	0	Top	5	0.917	0.460	1.021	0.917	0.460	0.571	19.80	0.810	0.510	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.20	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.00	100	0	Bottom	5	0.917	0.460	1.029	0.917	0.460	0.571	19.80	0.800	0.500	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	0.00	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.41	25	0	Bottom	5	1.190	0.544	1.021	1.123	0.551	0.702	19.80	0.950	0.594	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	0.05	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.18	50	0	Bottom	5	1.150	0.509	1.029	1.182	0.505	0.739	19.80	1.000	0.625	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	0.10	2310.0	462000	CP-OFDM	0.0	20.50	20.00	100	0	Bottom	5	1.190	0.544	1.029	1.182	0.551	0.739	19.80	1.000	0.625	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	0.19	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.39	3	26	Right	5	0.695	0.048	1.026	0.697	0.049	0.061	19.80	0.080	0.050	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	0.20	2310.0	462000	CP-OFDM	0.0	20.50	20.39	3	26	Right	5	0.695	0.048	1.026	0.697	0.049	0.061	19.80	0.080	0.050	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	-0.10	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.39	1	26	Left	5	0.932	0.048	1.026	0.933	0.048	0.061	19.80	0.030	0.030	
Body	NR Band n30	10	QPSK	26	NB7N	1:1	0.15	2310.0	462000	DFT-F-OFDM	0.0	20.50	20.41	25	0	Left	5	0.931	0.038	1.021	0.932	0.038	0.020	19.80	0.030	0.030	
Average SAR 1.026 W/kg																		5.6 W/kg (mW/kg)		Body							
Spatial Peak																		5.6 W/kg (mW/kg)		Body							

Table 10-71 Antenna 3

[illegible]

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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)	Ptest #
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.73	1	1	Back	5	0.962	0.448	1.016	0.977	0.455	0.611	18.80	0.970	0.606	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.70	25	27	Back	5	0.983	0.454	1.023	1.006	0.464	0.629	18.80	1.000	0.625	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.85	50	0	Back	5	0.985	0.450	1.035	1.008	0.450	0.605	18.80	0.960	0.601	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.04	2310.00	462000	CP-OFDM	0.0	18.80	18.86	1	1	Back	5	0.967	0.454	1.033	0.999	0.448	0.624	18.80	0.990	0.619	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.71	1	1	Top	5	0.946	0.390	1.010	0.980	0.396	0.538	18.80	0.850	0.531	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.70	25	27	Top	5	0.952	0.385	1.023	0.972	0.394	0.545	18.80	0.870	0.544	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.65	50	0	Top	5	0.841	0.373	1.035	0.870	0.386	0.544	18.80	0.860	0.538	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.79	1	1	Bottom	5	0.920	0.390	1.046	0.908	0.400	0.501	18.80	0.900	0.500	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.70	25	27	Bottom	5	0.900	0.390	1.023	0.900	0.400	0.500	18.80	0.900	0.500	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.73	1	1	Right	5	0.920	0.401	1.016	0.920	0.411	0.613	18.80	0.920	0.613	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.70	25	27	Right	5	0.923	0.403	1.023	0.924	0.413	0.615	18.80	0.920	0.615	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.73	1	1	Left	5	0.977	0.504	1.016	0.978	0.443	0.649	18.80	0.980	0.650	
Body	NR Band n30	10	QPSK	4b	65WV96	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	18.80	18.70	25	27	Left	5	0.970	0.498	1.023	0.972	0.495	0.645	18.80	0.970	0.644	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																					Body						
Spatial Peak																					1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																					averaged over 1 gram						

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)	Ptest #
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.86	1	108	Back	5	1.040	0.408	1.081	1.124	0.441	0.703	17.60	0.970	0.606	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.88	108	54	Back	5	1.000	0.403	1.076	1.162	0.451	0.726	17.60	1.000	0.625	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.88	216	0	Back	5	1.000	0.403	1.076	1.162	0.451	0.726	17.60	1.000	0.625	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.06	2535.00	507000	CP-OFDM	0.0	18.20	17.93	1	1	Back	5	1.080	0.423	1.064	1.149	0.450	0.718	17.60	0.990	0.619	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.86	1	108	Top	5	1.000	0.400	1.081	1.080	0.400	0.600	17.60	0.990	0.600	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.88	108	54	Top	5	0.900	0.000	1.076	0.000	0.000	0.450	17.60	0.000	0.000	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.86	1	108	Bottom	5	0.727	0.298	1.081	0.840	0.322	0.525	17.60	0.720	0.450	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.84	216	0	Bottom	5	0.676	0.286	1.076	0.840	0.318	0.530	17.60	0.670	0.480	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.00	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.84	216	0	Bottom	5	0.916	0.361	1.086	0.995	0.375	0.622	17.60	0.860	0.538	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.86	1	108	Right	5	0.920	0.401	1.081	0.922	0.412	0.614	17.60	0.920	0.613	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.88	108	54	Right	5	0.920	0.401	1.076	0.920	0.412	0.613	17.60	0.920	0.613	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.86	1	108	Left	5	1.126	0.504	1.081	1.136	0.508	0.863	17.60	1.120	0.705	
Body	NR Band n7	40	QPSK	1	930337	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	18.20	17.88	108	54	Left	5	1.027	0.496	1.076	1.115	0.499	0.872	17.60	1.100	0.661	
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 10-74 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)	Ptest #
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	20.10	19.98	1	108	Back	5	0.471	0.314	1.028	0.690	0.323	0.431	19.40	0.580	0.363	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	20.10	20.07	108	0	Back	5	0.636	0.303	1.007	0.650	0.305	0.400	19.40	0.540	0.338	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	20.10	19.98	1	108	Top	5	0.600	0.300	1.028	0.600	0.300	0.400	19.40	0.600	0.400	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	20.10	20.07	108	0	Top	5	0.607	0.300	1.007	0.602	0.300	0.400	19.40	0.600	0.400	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	20.10	19.98	1	108	Bottom	5	1.040	0.467	1.028	1.069	0.480	0.668	19.40	0.900	0.563	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	20.10	20.07	108	0	Bottom	5	1.050	0.484	1.007	1.058	0.487	0.686	19.40	0.930	0.585	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	20.10	19.96	216	0	Bottom	5	1.050	0.480	1.033	1.054	0.475	0.685	19.40	0.900	0.563	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.09	2535.00	507000	CP-OFDM	0.0	20.10	20.00	1	1	Bottom	5	1.130	0.480	1.047	1.183	0.512	0.739	19.40	1.000	0.625	A25
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	20.10	19.98	108	0	Right	5	0.920	0.401	1.028	0.920	0.401	0.528	19.40	0.920	0.600	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.14	2535.00	507000	DFT-s-OFDM	0.0	20.10	20.07	108	0	Right	5	0.955	0.401	1.007	0.955	0.401	0.524	19.40	0.950	0.631	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	20.10	19.98	1	108	Left	5	0.923	0.403	1.028	0.924	0.413	0.615	19.40	0.920	0.613	
Body	NR Band n7	40	QPSK	2b	65WV96	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	20.10	20.07	108	0	Left	5	0.927	0.406	1.007	0.927	0.416	0.617	19.40	0.920	0.613	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (W/kg)									
Uncontrolled Exposure (General Population)																		averaged over 1 gram									

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 Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.55	1	137	Back	5	1.020	0.398	1.035	1.066	0.412	0.666	17.00	0.900	0.563	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.58	135	138	Back	5	0.961	0.377	1.028	1.008	0.388	0.630	17.00	0.850	0.531	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.38	270	0	Back	5	1.076	0.413	1.076	1.151	0.444	0.719	17.00	0.970	0.606	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.55	1	137	Bottom	5	1.110	0.417	1.035	1.149	0.432	0.718	17.00	0.970	0.606	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.38	135	138	Bottom	5	0.986	0.389	1.028	1.034	0.379	0.634	17.00	0.860	0.538	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.38	270	0	Bottom	5	1.100	0.412	1.076	1.184	0.443	0.740	17.00	1.000	0.625	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2592.99	518598	CP-OFDM	0.0	17.70	17.20	1	1	Bottom	5	1.020	0.398	1.035	1.144	0.442	0.715	17.00	0.970	0.606	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.55	1	137	Left	5	0.913	0.365	1.035	1.117	0.351	0.673	17.00	0.100	0.063	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	17.70	17.38	135	138	Left	5	0.980	0.380	1.028	0.993	0.341	0.608	17.00	0.080	0.050	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.37	1	137	Back	5	0.722	0.310	1.030	0.895	0.350	0.559	19.20	0.760	0.475	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.42	135	69	Back	5	0.975	0.371	1.117	1.089	0.414	0.681	19.20	0.920	0.575	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.05	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.31	270	0	Back	5	0.859	0.335	1.146	0.984	0.384	0.615	19.20	0.830	0.510	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.01	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.37	1	137	Top	5	0.924	0.351	1.130	1.005	0.400	0.603	19.20	0.900	0.560	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.01	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.42	135	69	Top	5	0.905	0.350	1.117	1.006	0.404	0.610	19.20	0.910	0.560	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.37	1	137	Bottom	5	0.955	0.368	1.149	1.057	0.406	0.661	19.20	0.930	0.585	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2640.00	528000	CP-OFDM	0.0	19.90	19.33	135	69	Bottom	5	0.728	0.300	1.143	0.812	0.297	0.508	19.20	0.690	0.431	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.31	270	0	Bottom	5	0.952	0.365	1.146	1.091	0.418	0.682	19.20	0.920	0.575	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.37	1	137	Right	5	0.951	0.367	1.130	0.935	0.419	0.622	19.20	0.930	0.585	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.10	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.42	135	69	Right	5	0.850	0.357	1.117	0.934	0.419	0.621	19.20	0.830	0.510	
Body	NR Band n41	100	QPSK	1	930337	1:1	-0.07	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.37	1	137	Left	5	0.939	0.376	1.130	0.440	0.199	0.775	19.20	0.170	0.231	
Body	NR Band n41	100	QPSK	1	930337	1:1	0.02	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.42	135	69	Left	5	0.972	0.371	1.117	0.416	0.191	0.260	19.20	0.150	0.219	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																	Body									1.6 W/kg (mW/g)	averaged over 1 gram
Uncontrolled Exposure/General Population																											

Table 10-78 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 Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.10	2592.99	518598	DFT-s-OFDM	0.0	20.10	19.99	1	137	Back	5	0.518	0.238	1.026	0.531	0.244	0.332	19.90	0.510	0.319	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	20.10	20.08	135	138	Back	5	0.921	0.342	1.026	0.941	0.334	0.510	19.90	0.510	0.319	
Body	NR Band n41	100	QPSK	2b	76161	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	20.10	19.99	1	137	Top	5	0.900	0.300	1.026	0.900	0.000	0.000	19.90	0.000	0.000	
Body	NR Band n41	100	QPSK	2b	76161	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	20.10	20.08	135	138	Top	5	0.900	0.300	1.005	0.900	0.000	0.000	19.90	0.000	0.000	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	20.10	19.99	1	137	Bottom	5	0.881	0.301	1.026	0.904	0.301	0.465	19.90	0.860	0.538	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.06	2640.00	528000	DFT-s-OFDM	0.0	20.10	19.31	1	137	Bottom	5	0.905	0.386	1.146	1.037	0.442	0.648	19.90	0.990	0.619	
Body	NR Band n41	100	QPSK	2b	76161	1:1	0.10	2592.99	518598	DFT-s-OFDM	0.0	20.10	20.08	135	138	Bottom	5	0.982	0.400	1.005	0.957	0.411	0.598	19.90	0.910	0.569	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.07	2640.00	528000	CP-OFDM	0.0	20.10	19.96	135	69	Bottom	5	0.956	0.387	1.131	1.037	0.438	0.648	19.90	0.990	0.619	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	20.10	19.90	270	0	Bottom	5	0.927	0.405	1.047	0.981	0.424	0.613	19.90	0.940	0.588	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.03	2592.99	518598	CP-OFDM	0.0	20.10	19.93	1	1	Bottom	5	0.963	0.426	1.067	1.048	0.455	0.655	19.90	1.000	0.625	
Body	NR Band n41	100	QPSK	2b	76161	1:1	0.13	2592.99	518598	DFT-s-OFDM	0.0	20.10	19.99	1	137	Right	5	0.946	0.405	1.026	0.947	0.405	0.609	19.90	0.940	0.605	
Body	NR Band n41	100	QPSK	2b	76161	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	20.10	20.08	135	138	Right	5	0.954	0.408	1.005	0.954	0.408	0.604	19.90	0.950	0.601	
Body	NR Band n41	100	QPSK	2b	76161	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	20.10	19.99	1	137	Left	5	0.920	0.400	1.026	0.900	0.000	0.000	19.90	0.000	0.000	
Body	NR Band n41	100	QPSK	2b	76161	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	20.10	20.08	135	138	Left	5	0.900	0.390	1.005	0.900	0.000	0.000	19.90	0.900	0.000	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body									1.6 W/kg (mW/g) averaged over 1 gram	
Uncontrolled Exposure/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	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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #							
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.05	1	137	Back	5	1.120	0.440	1.095	1.190	0.465	0.744	16.50	1.000	0.625	A25							
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.05	1	137	Back	5	0.970	0.370	1.095	1.120	0.344	0.540	16.50	0.820	0.500								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.31	1	137	Back	5	0.876	0.378	1.184	1.046	0.451	0.654	19.20	0.880	0.550								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	135	138	Back	5	1.110	0.447	1.012	1.133	0.442	0.708	16.50	0.930	0.594								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.30	135	69	Back	5	0.910	0.385	1.175	0.973	0.421	0.608	19.20	0.810	0.513								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.12	270	0	Back	5	0.847	0.367	1.197	1.014	0.439	0.634	19.20	0.850	0.531								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	135	138	Back	5	1.110	0.447	1.012	1.133	0.442	0.708	16.50	0.930	0.594								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.05	1	137	Top	5	1.140	0.453	1.095	1.180	0.446	0.738	16.50	0.919	0.619								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.31	1	137	Top	5	0.840	0.309	1.194	1.003	0.389	0.627	19.20	0.840	0.525								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	135	138	Top	5	1.120	0.447	1.012	1.133	0.442	0.708	16.50	0.930	0.594								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.30	135	69	Top	5	0.874	0.325	1.175	1.027	0.382	0.627	19.20	0.860	0.538								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.03	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.12	270	0	Top	5	0.856	0.317	1.197	1.025	0.379	0.641	19.20	0.860	0.538								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	135	138	Bottom	5	0.900	0.360	1.184	0.980	0.393	0.603	19.20	0.800	0.500								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.07	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.30	135	69	Bottom	5	0.850	0.300	1.175	0.900	0.400	0.600	19.20	0.800	0.500								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.05	1	137	Right	5	1.124	0.463	1.095	1.180	0.464	0.713	16.50	0.910	0.604								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	137	137	Right	5	0.926	0.360	1.095	1.040	0.360	0.540	16.50	0.840	0.540								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	135	138	Right	5	0.912	0.307	1.012	1.014	0.376	0.510	16.50	0.870	0.568								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	0.02	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.20	135	69	Right	5	0.902	0.233	1.175	0.578	0.274	0.381	19.20	0.490	0.306								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.20	17.15	137	137	Left	5	0.920	0.360	1.095	1.040	0.360	0.540	16.50	0.840	0.540								
Body	NR Band n41	100	QPSK	3	GT14V	1:1	-0.13	2640.00	528000	DFT-s-OFDM	0.0	19.90	19.30	135	69	Left	5	0.924	0.014	1.175	0.026	0.016	0.018	19.20	0.020	0.011								
ANSI/IEEE C63.1-2002 - SAFETY LIMIT																					Body													
Uncontrolled Exposure/General Population																					1.6 W/kg (mW/g)													
																					averaged over 1 gram													

Table 10-80 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 n41	100	QPSK	4b	K9V46	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	19.30	18.72	1	137	Back	5	0.842	0.368	1.143	0.962	0.421	0.603	18.40	0.820	0.513	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.02	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.74	1	137	Back	5	0.655	0.288	1.138	0.745	0.328	0.466	18.40	0.630	0.394	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	19.30	18.76	135	49	Back	5	0.792	0.332	1.132	0.878	0.376	0.520	18.40	0.720	0.450	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.01	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.78	135	138	Back	5	0.658	0.289	1.127	0.742	0.326	0.464	18.40	0.630	0.394	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.01	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.71	270	0	Back	5	0.782	0.331	1.146	0.873	0.379	0.546	18.40	0.740	0.463	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	19.30	18.72	1	137	Top	5	1.020	0.446	1.143	1.177	0.510	0.736	18.40	1.000	0.625	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.74	1	137	Top	5	0.862	0.368	1.138	0.981	0.419	0.613	18.40	0.830	0.519	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	19.30	18.76	135	49	Top	5	1.020	0.446	1.132	1.166	0.505	0.729	18.40	0.990	0.619	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.01	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.78	135	138	Top	5	0.878	0.374	1.127	0.990	0.421	0.619	18.40	0.840	0.525	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.02	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.71	270	0	Top	5	0.978	0.407	1.146	1.121	0.466	0.701	18.40	0.950	0.594	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.01	2640.00	528000	CP-OFDM	0.0	19.30	18.70	1	1	Top	5	0.912	0.381	1.148	1.047	0.437	0.654	18.40	0.890	0.568	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.00	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.74	1	137	Bottom	5	0.002	0.000	1.138	0.002	0.000	0.001	18.40	0.000	0.000	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.08	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.78	135	138	Bottom	5	0.003	0.000	1.127	0.003	0.000	0.002	18.40	0.000	0.000	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.04	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.74	1	137	Right	5	0.000	0.000	1.138	0.007	0.008	0.006	18.40	0.000	0.001	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	0.16	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.78	135	138	Right	5	0.006	0.003	1.127	0.041	0.020	0.026	18.40	0.030	0.019	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.16	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.74	1	137	Left	5	0.001	0.000	1.138	0.007	0.008	0.009	18.40	0.000	0.001	
Body	NR Band n41	100	QPSK	4b	K9V46	1:1	-0.07	2640.00	528000	DFT-s-OFDM	0.0	19.30	18.78	135	138	Left	5	0.000	0.000	1.127	0.045	0.025	0.028	18.40	0.040	0.025	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak 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	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 n48	40	QPSK	1	N8J7H	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	16.60	15.52	1	104	Back	5	0.675	0.213	1.282	0.865	0.273	0.541	16.00	0.750	0.469	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.77	1	1	Back	5	0.605	0.193	1.211	0.733	0.234	0.540	16.00	0.640	0.400	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.03	3679.98	645132	DFT-s-OFDM	0.0	16.60	15.44	1	53	Back	5	0.502	0.160	1.306	0.656	0.209	0.410	16.00	0.570	0.356	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	16.60	15.40	50	56	Back	5	0.664	0.211	1.233	0.869	0.260	0.512	16.00	0.710	0.444	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.07	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.71	50	0	Back	5	0.580	0.187	1.277	0.712	0.229	0.405	16.00	0.620	0.388	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.02	3679.98	645132	DFT-s-OFDM	0.0	16.60	15.54	50	0	Back	5	0.542	0.173	1.276	0.692	0.221	0.413	16.00	0.600	0.375	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.16	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.70	100	0	Back	5	0.697	0.220	1.230	0.857	0.271	0.536	16.00	0.750	0.460	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.17	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.77	1	1	Top	5	0.000	0.000	1.211	0.000	0.000	0.000	16.00	0.000	0.000	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.71	50	0	Top	5	0.000	0.000	1.237	0.000	0.000	0.000	16.00	0.000	0.000	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	16.60	15.52	50	0	Bottom	5	0.896	0.288	1.282	1.149	0.367	0.718	16.00	0.960	0.625	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.77	1	1	Bottom	5	0.848	0.279	1.211	1.027	0.338	0.642	16.00	0.890	0.556	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.01	3679.98	645132	DFT-s-OFDM	0.0	16.60	15.44	1	53	Bottom	5	0.749	0.241	1.266	0.928	0.316	0.611	16.00	0.850	0.531	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	16.60	15.49	50	56	Bottom	5	0.895	0.287	1.233	1.104	0.354	0.690	16.00	0.960	0.600	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.71	50	0	Bottom	5	0.863	0.283	1.227	1.059	0.347	0.662	16.00	0.920	0.575	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.01	3679.98	645132	DFT-s-OFDM	0.0	16.60	15.54	50	0	Bottom	5	0.849	0.280	1.276	1.032	0.332	0.645	16.00	0.900	0.561	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.70	100	0	Bottom	5	0.912	0.292	1.230	1.122	0.359	0.701	16.00	0.980	0.613	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.01	3624.99	641666	CP-OFDM	0.0	16.60	15.70	1	1	Bottom	5	0.896	0.289	1.183	1.040	0.336	0.650	16.00	0.910	0.569	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	-0.08	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.77	1	1	Right	5	0.013	0.001	1.211	0.016	0.006	0.010	16.00	0.000	0.000	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.71	50	0	Right	5	0.011	0.004	1.227	0.013	0.005	0.008	16.00	0.010	0.006	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.77	1	1	Left	5	0.002	0.000	1.241	0.003	0.004	0.004	16.00	0.000	0.001	
Body	NR Band n48	40	QPSK	1	N8J7H	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	16.60	15.71	50	0	Left	5	0.007	0.003	1.227	0.070	0.028	0.044	16.00	0.060	0.039	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population									
Spatial Peak																											

Table 10-82 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 n48	40	QPSK	2b	N8J7H	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.37	1	1	Back	5	0.526	0.186	1.156	0.608	0.227	0.380	20.40	0.520	0.325	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.31	1	1	Back	5	0.699	0.241	1.143	0.808	0.278	0.458	20.40	0.720	0.459	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.07	3679.98	645132	DFT-s-OFDM	0.0	21.00	20.32	1	53	Back	5	0.389	0.140	1.169	0.455	0.164	0.284	20.40	0.390	0.240	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.33	50	0	Back	5	0.487	0.163	1.154	0.514	0.202	0.346	20.40	0.470	0.294	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.04	3674.99	641666	DFT-s-OFDM	0.0	21.00	20.42	1	1	Top	5	0.603	0.200	1.143	0.003	0.000	0.002	20.40	0.000	0.000	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	-0.06	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.33	50	0	Top	5	0.609	0.203	1.114	0.010	0.003	0.006	20.40	0.010	0.000	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.00	3624.99	638000	DFT-s-OFDM	0.0	21.00	20.33	50	0	Bottom	5	0.609	0.203	1.114	0.010	0.003	0.006	20.40	0.010	0.000	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.42	1	1	Bottom	5	0.656	0.217	1.143	0.078	0.368	0.611	20.40	0.810	0.519	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	-0.01	3679.98	645132	DFT-s-OFDM	0.0	21.00	20.32	1	53	Bottom	5	0.402	0.141	1.169	0.415	0.160	0.309	20.40	0.410	0.241	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.00	3624.99	638000	DFT-s-OFDM	0.0	21.00	20.32	50	0	Bottom	5	0.602	0.199	1.143	0.003	0.000	0.003	20.40	0.003	0.000	A27
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.07	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.53	50	0	Bottom	5	0.518	0.241	1.114	0.023	0.382	0.629	20.40	0.870	0.540	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.32	100	0	Bottom	5	0.612	0.200	1.156	0.447	0.307	0.515	20.40	0.720	0.459	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.32	100	0	Bottom	5	0.681	0.229	1.156	0.500	0.380	0.644	20.40	0.880	0.550	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.07	3624.99	641666	CP-OFDM	0.0	21.00	20.77	1	1	Bottom	5	0.666	0.246	1.054	0.018	0.379	0.638	20.40	0.870	0.544	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.33	50	0	Bottom	5	0.609	0.203	1.114	0.010	0.003	0.006	20.40	0.010	0.000	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.19	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.33	50	0	Right	5	0.651	0.024	1.114	0.057	0.027	0.038	20.40	0.050	0.031	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.43	1	1	Left	5	0.604	0.000	1.143	0.000	0.000	0.000	20.40	0.000	0.000	
Body	NR Band n48	40	QPSK	2b	N8J7H	1:1	0.04	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.33	50	0	Left	5	0.604	0.000	1.114	0.000	0.000	0.000	20.40	0.000	0.000	
Annoyed (CRS 1920 - SAFETY Limit)																					Body						
Unconscious (General Population)																					Reported over 1g						
																					1.6 W/kg						

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 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	40	N817H	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.21	1	1	Back	5	0.649	0.322	1.227	0.796	0.285	0.498	15.40	0.670	0.419		
Body	NR Band n48	40	QPSK	40	N817H	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	16.10	15.06	1	1	Back	5	0.387	0.141	1.271	0.492	0.180	0.308	15.40	0.410	0.256		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.08	3679.98	645332	DFT-s-OFDM	0.0	16.10	15.14	1	1	Back	5	0.463	0.149	1.247	0.593	0.185	0.314	15.40	0.420	0.265		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.34	50	0	Back	5	0.488	0.174	1.219	0.595	0.212	0.372	15.40	0.500	0.313		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.21	1	1	Top	5	0.773	0.268	1.227	0.946	0.329	0.593	15.40	0.800	0.500		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.05	3624.99	641666	DFT-s-OFDM	0.0	16.10	15.36	1	1	Top	5	0.372	0.205	1.271	0.292	0.264	0.450	15.40	0.380	0.381		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	16.10	15.14	1	1	Top	5	0.629	0.222	1.247	0.784	0.277	0.490	15.40	0.660	0.413		
Body	NR Band n48	40	QPSK	40	N817H	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.24	50	0	Top	5	0.580	0.209	1.219	0.707	0.255	0.442	15.40	0.598	0.369		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	16.10	15.12	50	0	Top	5	0.596	0.204	1.253	0.747	0.268	0.467	15.40	0.630	0.394		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.00	3679.98	645332	DFT-s-OFDM	0.0	16.10	15.07	50	0	Top	5	0.621	0.220	1.268	0.767	0.279	0.492	15.40	0.660	0.413		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.19	100	0	Top	5	0.789	0.262	1.233	0.924	0.323	0.578	15.40	0.780	0.488		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.08	3570.00	638000	CP-OFDM	0.0	16.10	15.34	1	1	Top	5	0.977	0.347	1.219	1.131	0.421	0.744	15.40	1.000	0.625		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.21	1	1	Bottom	5	0.000	0.000	1.227	0.000	0.000	0.000	15.40	0.000	0.000		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.06	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.34	50	0	Bottom	5	0.000	0.000	1.219	0.000	0.000	0.000	15.40	0.000	0.000		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.31	1	1	Right	5	0.004	0.000	1.227	0.005	0.000	0.003	15.40	0.000	0.000		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.34	50	0	Right	5	0.003	0.000	1.219	0.004	0.000	0.003	15.40	0.000	0.000		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.17	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.31	1	1	Left	5	0.004	0.003	1.227	0.004	0.003	0.004	15.40	0.000	0.001		
Body	NR Band n48	40	QPSK	40	N817H	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	16.10	15.34	50	0	Left	5	0.009	0.007	1.219	0.008	0.021	0.003	15.40	0.040	0.025		
ANSI/CES11390 - SAFETY LIMIT																		Body							1.6 W/kg (mW/g)		averaged over 1 gram	
Uncontrolled Exposure/General Population																												

10.28 NR Band n77 Standalone SAR

Table 10-85 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	N817H	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.35	1	1	Back	5	0.710	0.313	1.084	0.770	0.339	0.481	20.00	0.650	0.406		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.38	135	69	Back	5	0.664	0.299	1.076	0.714	0.315	0.466	20.00	0.630	0.385		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.35	1	1	Bottom	5	0.586	0.220	1.084	0.635	0.228	0.397	20.00	0.540	0.338		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.35	135	69	Bottom	5	0.788	0.380	1.084	0.837	0.397	0.549	20.00	0.730	0.459		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.35	1	1	Left	5	1.050	0.462	1.084	1.055	0.435	0.684	20.00	0.930	0.581		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.38	135	69	Left	5	1.020	0.409	1.076	1.006	0.440	0.686	20.00	0.930	0.581		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	20.70	20.35	135	0	Left	5	0.627	0.299	1.084	0.635	0.228	0.397	20.00	0.540	0.339		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.12	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.37	1	1	Back	0	0.595	0.264	1.156	0.688	0.294	0.430	20.30	0.580	0.363		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.08	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.42	135	0	Back	0	0.560	0.241	1.143	0.640	0.275	0.400	20.30	0.540	0.339		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.06	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.37	1	1	Top	0	0.627	0.309	1.156	0.675	0.316	0.450	20.30	0.610	0.385		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.42	135	0	Top	0	0.608	0.301	1.143	0.630	0.313	0.439	20.30	0.600	0.379		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.37	1	1	Bottom	0	0.622	0.271	1.156	0.690	0.310	0.454	20.30	0.610	0.385		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.42	135	0	Bottom	0	0.788	0.385	1.143	0.812	0.303	0.570	20.30	0.730	0.461		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.35	270	0	Bottom	0	0.569	0.306	1.161	1.113	0.355	0.696	20.30	0.940	0.588		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.37	1	1	Left	0	0.627	0.309	1.156	0.688	0.316	0.450	20.30	0.610	0.385		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.42	135	0	Right	0	0.627	0.309	1.143	0.631	0.315	0.439	20.30	0.600	0.379		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.00	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.37	1	1	Left	0	1.020	0.390	1.156	1.179	0.451	0.737	20.30	1.000	0.625		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.42	135	0	Left	0	0.625	0.309	1.143	0.640	0.316	0.450	20.30	0.610	0.385		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	21.00	20.35	270	0	Left	0	1.006	0.388	1.161	1.173	0.450	0.733	20.30	0.990	0.619		
Body	NR Band n77	100	QPSK	1	N817H	1:1	-0.00	3930.00	662000	CP-OFDM	0.0	21.00	20.44	1	1	Left	0	0.872	0.399	1.138	0.992	0.386	0.620	20.30	0.840	0.525		
ANSI/IEEE C63.11-1992 - SAFETY LIMIT																		Body							1.6 W/kg (mW/g)		averaged over 1 gram	
Spatial Peak Uncontrolled Exposure/General Population																		Body							1.6 W/kg (mW/g)		averaged over 1 gram	

Note: Blue entry represents variability measurement

Table 10-86 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 n77	100	QPSK	20	N817H	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.97	1	137	Back	0	0.640	0.229	1.219	0.793	0.284	0.496	22.20	0.670	0.419		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	22.50	22.27	135	0	Back	0	0.652	0.232	1.156	0.754	0.268	0.471	22.20	0.640	0.400		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.96	270	0	Back	0	0.699	0.262	1.242	0.868	0.313	0.543	22.20	0.730	0.456		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.97	137	137	Top	0	0.611	0.206	1.239	0.801	0.309	0.509	22.20	0.710	0.406		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	22.50	22.27	135	0	Top	0	0.696	0.260	1.156	0.607	0.000	0.004	22.20	0.710	0.406		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.97	1	137	Bottom	0	0.850	0.301	1.239	1.053	0.373	0.688	22.20	0.930	0.566		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.97	135	0	Bottom	0	0.610	0.206	1.242	0.801	0.309	0.509	22.20	0.710	0.406		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.01	3750.00	650000	CP-OFDM	0.0	22.50	22.15	1	1	Bottom	0	0.926	0.287	1.242	1.150	0.466	0.719	22.20	0.970	0.606		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.09	3750.00	650000	CP-OFDM	0.0	22.50	22.15	1	1	Bottom	0	0.998	0.353	1.189	1.187	0.420	0.742	22.20	1.000	0.625		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	22.50	22.15	137	137	Top	0	0.998	0.353	1.189	1.187	0.420	0.742	22.20	1.000	0.625		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	22.50	22.27	135	0	Bottom	0	0.960	0.307	1.156	0.609	0.031	0.043	22.20	0.960	0.608		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.97	1	137	Left	0	0.940	0.306	1.239	0.950	0.020	0.031	22.20	0.940	0.625		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	22.50	21.97	135	0	Left	0	0.940	0.306	1.239	0.950	0.020	0.031	22.20	0.940	0.625		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.90	1	137	Back	5	0.888	0.321	1.023	0.908	0.329	0.568	21.30	0.760	0.475		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.09	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.85	135	69	Back	5	0.746	0.272	1.033	0.772	0.282	0.483	21.30	0.650	0.466		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.90	1	137	Bottom	5	1.110	0.379	1.033	0.788	0.370	0.580	21.30	0.960	0.600		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.85	135	137	Bottom	5	1.003	0.375	1.033	0.779	0.369	0.570	21.30	0.930	0.544		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.85	135	69	Bottom	5	1.010	0.350	1.033	1.046	0.362	0.633	21.30	0.880	0.550		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.90	137	137	Right	5	0.962	0.309	1.023	0.933	0.029	0.039	21.30	0.910	0.631		
Body	NR Band n77	100	QPSK	20	N817H	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	22.00	21.85	135	0	Right	5	0.961	0.307	1.033	0.936	0.028	0.039	21.30	0.910	0.631		
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																					Body							
Uncontrolled Exposure (General Population)																					5.6 W/kg (averaged over 1 gram)							

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	100	QPSK	4b	65W9G	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.20	17.75	1	137	Back	5	0.603	0.311	1.109	0.724	0.256	0.433	17.50	0.610	0.381	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	18.20	17.85	135	69	Back	5	0.665	0.296	1.084	0.721	0.256	0.431	17.50	0.610	0.381	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.20	17.75	1	137	Top	5	0.689	0.291	1.109	0.932	0.323	0.583	17.50	0.750	0.494	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.20	17.85	135	69	Top	5	0.912	0.313	1.084	0.989	0.339	0.618	17.50	0.840	0.525	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	18.20	17.75	1	137	Left	5	0.608	0.309	0.940	0.617	0.265	0.450	17.50	0.610	0.381	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	18.20	17.85	135	69	Left	5	0.659	0.301	1.084	0.942	0.316	0.526	17.50	0.840	0.525	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.46	1	137	Back	5	0.764	0.273	1.186	0.906	0.324	0.586	18.50	0.770	0.481	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.46	135	69	Back	5	0.828	0.266	1.178	0.799	0.289	0.499	18.50	0.680	0.425	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.46	1	137	Top	5	0.927	0.315	1.186	1.059	0.374	0.687	18.50	0.930	0.581	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.49	135	0	Top	5	0.975	0.334	1.178	1.149	0.393	0.718	18.50	0.970	0.606	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.44	720	0	Top	5	0.863	0.303	1.191	1.030	0.361	0.644	18.50	0.870	0.544	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.00	3930.00	662000	CP-OFDM	0.0	18.20	18.17	1	1	Top	5	1.008	0.302	1.156	1.179	0.407	0.737	18.50	1.000	0.625	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.46	1	137	Bottom	5	0.880	0.300	1.186	0.950	0.300	0.600	18.50	0.900	0.560	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.49	135	0	Bottom	5	0.900	0.300	1.178	0.900	0.300	0.600	18.50	0.900	0.560	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.00	3930.00	662000	CP-OFDM	0.0	18.20	18.46	1	137	Right	5	0.925	0.301	1.186	0.930	0.301	0.619	18.50	0.930	0.519	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	-0.00	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.49	135	0	Right	5	0.925	0.301	1.178	0.929	0.301	0.618	18.50	0.920	0.513	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.46	1	137	Left	5	0.940	0.303	1.186	0.947	0.303	0.629	18.50	0.940	0.525	
Body	NR Band n77	100	QPSK	4b	65W9G	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	18.20	18.49	135	0	Left	5	0.943	0.300	1.178	0.951	0.304	0.632	18.50	0.940	0.525	

ANSI/IEEE C63.1 UN2 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

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

10.29 NR Band n77 DoD 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 DoD	100	QPSK	1	930327	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.07	1	137	Back	5	0.721	0.227	1.079	0.778	0.245	0.486	16.80	0.660	0.413	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.11	135	0	Back	5	0.795	0.220	1.069	0.850	0.267	0.531	16.80	0.720	0.450	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	-0.06	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.04	270	0	Back	5	0.742	0.240	1.089	0.795	0.269	0.497	16.80	0.680	0.425	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	-0.06	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.07	1	137	Top	5	0.802	0.200	1.079	0.802	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.11	135	0	Top	5	0.803	0.200	1.069	0.803	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.07	1	137	Bottom	5	0.800	0.200	1.079	0.800	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.11	135	0	Bottom	5	0.800	0.200	1.079	0.800	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	0.00	3500.01	633334	CP-OFDM	0.0	17.40	17.04	270	0	Bottom	5	0.800	0.200	1.079	0.800	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.07	1	137	Right	5	0.800	0.200	1.079	0.800	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	-0.12	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.11	135	0	Right	5	0.800	0.200	1.069	0.800	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	0.12	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.07	1	137	Left	5	0.800	0.200	1.079	0.800	0.200	0.400	16.80	0.600	0.380	
Body	NR Band n77 DoD	100	QPSK	1	930327	1:1	0.14	3500.01	633334	DFT-s-OFDM	0.0	17.40	17.11	135	0	Left	5	0.800	0.200	1.069	0.800	0.200	0.400	16.80	0.600	0.380	

ANSI/IEEE C63.1 UN2 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

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

Note: Blue entry represents variability measurement

Table 10-90 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 n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.57	1	137	Back	0	0.468	0.175	1.268	0.593	0.222	0.371	19.70	0.510	0.319	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.00	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.46	135	0	Back	0	0.467	0.175	1.268	0.593	0.222	0.371	19.70	0.510	0.319	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.00	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.57	1	137	Top	0	0.503	0.200	1.268	0.604	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.48	135	0	Top	0	0.502	0.200	1.268	0.602	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.00	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.57	1	137	Bottom	0	0.501	0.200	1.268	0.600	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.48	135	0	Bottom	0	0.502	0.200	1.268	0.602	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.56	270	0	Bottom	0	0.503	0.200	1.271	0.603	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.00	3500.01	633334	CP-OFDM	0.0	20.30	19.46	1	1	Bottom	0	0.480	0.165	1.216	0.576	0.195	0.324	19.70	0.470	0.290	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.57	1	137	Right	0	0.500	0.200	1.268	0.600	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.48	135	0	Right	0	0.499	0.200	1.268	0.599	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.57	1	137	Left	0	0.502	0.200	1.268	0.602	0.200	0.330	19.70	0.500	0.300	
Body	NR Band n77 DoD	100	QPSK	2b	N8L7H	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	20.30	19.48	135	0	Left	0	0.509	0.200	1.268	0.613	0.200	0.330	19.70	0.500	0.300	

ANSI/IEEE C63.1 UN2 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

1.6 W/kg (mW/g)
averaged 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
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Table 10-92 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 n77 DoD	100	QPSK	4b	N3L7H	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.85	1	137	Back	5	0.493	0.177	1.189	0.586	0.210	0.366	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.97	135	0	Back	5	0.587	0.211	1.156	0.679	0.244	0.424	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.85	1	137	Top	5	0.757	0.268	1.189	0.900	0.319	0.563	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.97	135	0	Top	5	0.844	0.300	1.156	0.976	0.347	0.610	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.72	270	0	Top	5	0.812	0.285	1.225	0.995	0.349	0.622	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.00	3500.01	633334	CP-OFDM	0.0	16.60	15.61	1	1	Top	5	0.777	0.264	1.256	0.976	0.340	0.610	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.85	1	137	Bottom	5	0.000	0.000	1.189	0.000	0.000	0.000	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.97	135	0	Bottom	5	0.000	0.000	1.156	0.000	0.000	0.000	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.85	1	137	Right	5	0.009	0.004	1.189	0.011	0.005	0.007	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.97	135	0	Right	5	0.012	0.005	1.156	0.014	0.006	0.009	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.19	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.85	1	137	Left	5	0.031	0.015	1.189	0.037	0.018	0.023	
Body	NR Band n77 DoD	100	QPSK	4b	N3L7H	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	16.60	15.97	135	0	Left	5	0.031	0.017	1.156	0.040	0.020	0.025	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram					

10.30 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 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	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.04	2412	1	1.0	20.50	19.05	Back	5	0.653	0.336	1.396	1.022	0.932	0.479	0.583	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.05	2437	6	1.0	20.50	19.10	Back	5	0.793	0.395	1.380	1.022	1.118	0.557	0.699	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	-0.07	2462	11	1.0	20.50	19.09	Back	5	0.765	0.378	1.384	1.022	1.082	0.535	0.676	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.06	2437	6	1.0	20.50	19.10	Top	5	0.030	0.013	1.380	1.022	0.042	0.018	0.026	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	-0.06	2437	6	1.0	20.50	19.10	Bottom	5	0.323	0.130	1.380	1.022	0.456	0.183	0.285	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.09	2412	1	1.0	20.50	19.05	Right	5	0.673	0.310	1.396	1.022	0.960	0.442	0.600	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.02	2437	6	1.0	20.50	19.10	Right	5	0.743	0.437	1.380	1.022	1.048	0.475	0.655	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.03	2462	11	1.0	20.50	19.09	Right	5	0.601	0.292	1.384	1.022	0.850	0.399	0.531	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.03	2437	6	1.0	20.50	19.10	Left	5	0.000	0.000	1.380	1.022	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							

Table 10-94 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	-0.02	2412	1	1.0	17.50	16.84	Back	5	0.501	0.256	1.164	1.022	0.596	0.305	0.373	15.80	0.400	0.250	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.13	2412	1	1.0	17.50	16.84	Bottom	5	0.195	0.077	1.164	1.022	0.232	0.145	0.160	15.80	0.100	0.100	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	2a	GY04V	97.87	0.01	2412	1	1.0	17.50	16.84	Right	5	0.368	0.172	1.164	1.022	0.438	0.205	0.274	15.80	0.290	0.181	
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 10-95 Antenna 4a

Exposure	Band / Mode	Bandwidth	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 WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	-0.01	2412	1	1.0	19.75	18.01	Back	5	0.732	0.380	1.493	1.022	1.117	0.580	0.698	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	0.17	2437	6	1.0	19.75	18.25	Back	5	0.826	0.431	1.413	1.022	0.998	0.622	0.746	A30
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	0.00	2462	11	1.0	19.75	18.03	Back	5	0.796	0.386	1.486	1.022	1.118	0.586	0.699	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	-0.12	2437	6	1.0	19.75	18.25	Top	5	0.379	0.148	1.413	1.022	0.546	0.214	0.341	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	-0.20	2437	6	1.0	19.75	18.25	Bottom	5	0.024	0.012	1.413	1.022	0.035	0.017	0.022	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	-0.07	2437	6	1.0	19.75	18.25	Right	5	0.002	0.000	1.413	1.022	0.003	0.000	0.002	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	-0.10	2412	1	1.0	19.75	18.01	Left	5	0.748	0.347	1.493	1.022	1.141	0.529	0.713	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	0.00	2437	6	1.0	19.75	18.25	Left	5	0.789	0.369	1.413	1.022	1.139	0.533	0.712	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	N3L7H	97.87	0.06	2462	11	1.0	19.75	18.03	Left	5	0.765	0.359	1.486	1.022	1.162	0.545	0.726	
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 10-96 Reduced 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	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	GY04V	97.87	0.06	2462	11	1.0	17.25	15.92	Back	5	0.411	0.215	1.318	1.022	0.570	0.298	0.356	15.75	0.400	0.250	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	GY04V	97.87	0.11	2462	11	1.0	17.25	15.92	Top	5	0.218	0.093	1.318	1.022	0.132	0.206	0.157	15.75	0.230	0.144	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4a	GY04V	97.87	-0.06	2462	11	1.0	17.25	15.92	Left	5	0.405	0.188	1.318	1.022	0.163	0.261	0.151	15.75	0.390	0.244	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Body									
Spatial Peak																Spatial Peak									
Uncontrolled Exposure/General Population																Uncontrolled Exposure/General Population									

FCC ID: BCGA3358	RF EXPOSURE REPORT	Approved by:
DUT Type:		Technical Manager
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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 WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	0.03	5190	38	U-NII-1	13.5	15.00	13.83	Back	5	0.487	0.159	1.309	1.021	0.651	0.213	0.407	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	-0.03	5230	46	U-NII-1	13.5	17.75	17.53	Back	5	1.087	0.365	1.052	1.021	1.105	0.385	0.725	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	-0.04	5230	46	U-NII-1	13.5	17.75	17.53	Back	5	1.100	0.368	1.052	1.021	1.182	0.395	0.739	A31
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	0.01	5230	46	U-NII-1	13.5	17.75	17.53	Top	5	0.009	0.002	1.052	1.021	0.010	0.002	0.006	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	0.06	5230	46	U-NII-1	13.5	17.75	17.53	Bottom	5	0.214	0.083	1.052	1.021	0.230	0.088	0.144	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	-0.03	5230	46	U-NII-1	13.5	17.75	17.53	Right	5	0.304	0.100	1.052	1.021	0.327	0.107	0.204	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	0.05	5230	46	U-NII-1	13.5	17.75	17.53	Left	5	0.000	0.000	1.052	1.021	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: Blue entry represents variability measurement

Table 10-98 Reduced 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)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	-0.02	5230	46	U-NII-1	13.5	14.75	14.12	Back	5	0.501	0.164	1.156	1.021	0.591	0.194	0.369	13.15	0.400	0.250	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	0.03	5230	46	U-NII-1	13.5	14.75	14.12	Bottom	5	0.087	0.032	1.156	1.021	0.103	0.038	0.054	13.15	0.070	0.044	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	2a	65W9G	97.90	-0.04	5230	46	U-NII-1	13.5	14.75	14.12	Right	5	0.169	0.052	1.156	1.021	0.199	0.061	0.124	13.15	0.130	0.081	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body											
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-99 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 WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	-0.11	5190	38	U-NII-1	13.5	15.00	14.27	Back	5	0.472	0.161	1.183	1.021	0.570	0.194	0.356	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	-0.10	5230	46	U-NII-1	13.5	17.75	17.11	Back	5	0.984	0.340	1.159	1.021	1.164	0.402	0.728	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	-0.12	5230	46	U-NII-1	13.5	17.75	17.11	Top	5	0.232	0.094	1.159	1.021	0.275	0.111	0.172	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	0.01	5230	46	U-NII-1	13.5	17.75	17.11	Bottom	5	0.017	0.006	1.159	1.021	0.020	0.007	0.013	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	0.04	5230	46	U-NII-1	13.5	17.75	17.11	Right	5	0.000	0.000	1.159	1.021	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	0.09	5230	46	U-NII-1	13.5	17.75	17.11	Left	5	0.241	0.085	1.159	1.021	0.285	0.101	0.178	
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 10-100 Reduced 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)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	-0.05	5230	46	U-NII-1	13.5	14.75	14.05	Back	5	0.493	0.187	1.175	1.021	0.591	0.200	0.369	13.15	0.400	0.250	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	-0.02	5230	46	U-NII-1	13.5	14.75	14.05	Top	5	0.106	0.041	1.175	1.021	0.127	0.049	0.079	13.15	0.090	0.059	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	4a	93037	97.90	0.03	5230	46	U-NII-1	13.5	14.75	14.05	Left	5	0.121	0.039	1.175	1.021	0.145	0.047	0.091	13.15	0.100	0.063	
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 10-101 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	K7HVV	97.87	0.04	5270	54	U-NII-2A	13.5	18.50	17.54	Back	5	0.059	0.023	1.247	1.022	0.075	0.029	0.047	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	K7HVV	97.87	0.06	5270	54	U-NII-2A	13.5	18.50	17.54	Top	5	0.000	0.000	1.247	1.022	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	K7HVV	97.87	0.01	5270	54	U-NII-2A	13.5	18.50	17.54	Bottom	5	0.053	0.015	1.247	1.022	0.068	0.019	0.043	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	K7HVV	97.87	0.07	5270	54	U-NII-2A	13.5	18.50	17.54	Right	5	0.533	0.201	1.247	1.022	0.679	0.256	0.424	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	K7HVV	97.87	0.01	5270	54	U-NII-2A	13.5	18.50	17.54	Left	5	0.000	0.000	1.247	1.022	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							

Table 10-102 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 802.11ac	80	OFDM	2a	93037	97.87	-0.06	5590	106	U-NII-2C	29.3	14.30	14.20	Back	5	0.816	0.267	1.022	1.022	0.853	0.279	0.538	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	0.00	5610	122	U-NII-2C	29.3	17.50	16.65	Back	5	0.951	0.313	1.216	1.022	1.182	0.389	0.739	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	-0.01	5610	122	U-NII-2C	29.3	17.50	16.11	Back	5	0.915	0.307	1.216	1.022	1.163	0.382	0.727	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	-0.04	5690	138	U-NII-2C	29.3	17.50	16.52	Back	5	0.891	0.290	1.253	1.022	1.141	0.371	0.713	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	0.05	5610	122	U-NII-2C	29.3	17.50	16.65	Top	5	0.000	0.000	1.216	1.022	0.010	0.002	0.006	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	0.00	5610	122	U-NII-2C	29.3	17.50	16.65	Bottom	5	0.211	0.078	1.216	1.022	0.262	0.097	0.164	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	0.09	5610	122	U-NII-2C	29.3	17.50	16.65	Right	5	0.202	0.068	1.216	1.022	0.251	0.085	0.157	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	93037	97.87	0.03	5610	122	U-NII-2C	29.3	17.50	16.65	Left	5	0.004	0.000	1.216	1.022	0.005	0.000	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 10-103 Reduced 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)	Simultaneous Turn-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	N3L7H	97.87	-0.03	5610	122	U-NII-2C	29.3	14.50	13.57	Back	5	0.472	0.156	1.239	1.022	0.598	0.188	0.374	12.80	0.400	0.250	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	N3L7H	97.87	-0.09	5610	122	U-NII-2C	29.3	14.50	13.57	Bottom	5	0.096	0.034	1.239	1.022	0.132	0.076	0.280	12.80	0.060	0.050	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	N3L7H	97.87	0.09	5610	122	U-NII-2C	29.3	14.50	13.57	Right	5	0.087	0.025	1.239	1.022	0.110	0.052	0.069	12.80	0.070	0.044	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-104 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 WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	-0.16	5690	138	U-NII-2C	29.3	15.30	14.19	Back	5	0.504	0.170	1.291	1.022	0.665	0.224	0.416	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	-0.03	5610	122	U-NII-2C	29.3	17.25	16.43	Back	5	0.893	0.304	1.208	1.022	1.101	0.375	0.688	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	-0.13	5690	138	U-NII-2C	29.3	17.25	16.93	Back	5	0.817	0.277	1.076	1.022	0.898	0.305	0.561	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	0.01	5690	138	U-NII-2C	29.3	17.25	16.93	Top	5	0.244	0.093	1.076	1.022	0.268	0.102	0.168	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	0.08	5690	138	U-NII-2C	29.3	17.25	16.93	Bottom	5	0.012	0.004	1.076	1.022	0.013	0.004	0.008	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	-0.01	5690	138	U-NII-2C	29.3	17.25	16.93	Right	5	0.000	0.000	1.076	1.022	0.000	0.000	0.000	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	7616L	97.87	0.04	5690	138	U-NII-2C	29.3	17.25	16.93	Left	5	0.107	0.041	1.076	1.022	0.118	0.045	0.074	
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 10-105 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	65W9G	97.87	0.09	5690	138	U-NII-2C	29.3	15.25	13.43	Back	5	0.134	0.113	1.523	1.022	0.519	0.176	0.324	14.15	0.400	0.250	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	65W9G	97.87	0.02	5690	138	U-NII-2C	29.3	15.25	13.43	Top	5	0.101	0.099	1.523	1.022	0.157	0.061	0.098	14.15	0.120	0.075	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	4a	65W9G	97.87	0.09	5690	138	U-NII-2C	29.3	15.25	13.43	Left	5	0.048	0.017	1.523	1.022	0.075	0.026	0.047	14.15	0.060	0.038	
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 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 WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	0.05	5610	122	U-NII-2C	29.3	18.50	17.68	Back	5	0.075	0.028	1.208	1.022	0.093	0.035	0.058	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	0.09	5610	122	U-NII-2C	29.3	18.50	17.68	Top	5	0.000	0.000	1.208	1.022	0.000	0.000	0.000	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	0.06	5610	122	U-NII-2C	29.3	18.50	17.68	Bottom	5	0.012	0.003	1.208	1.022	0.015	0.004	0.009	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	-0.03	5330	106	U-NII-2C	29.3	14.30	13.57	Right	5	0.214	0.077	1.183	1.022	0.259	0.093	0.162	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	-0.06	5610	122	U-NII-2C	29.3	18.50	17.68	Right	5	0.690	0.257	1.208	1.022	0.852	0.317	0.533	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	0.07	5690	138	U-NII-2C	29.3	18.50	17.49	Right	5	0.568	0.212	1.262	1.022	0.733	0.273	0.458	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	WF5b	P17K6	97.87	0.06	5610	122	U-NII-2C	29.3	18.50	17.68	Left	5	0.023	0.009	1.208	1.022	0.028	0.011	0.018	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-107 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 WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	-0.02	5775	155	U-NII-3	29.3	17.75	17.26	Back	5	0.964	0.316	1.119	1.022	1.102	0.361	0.689	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	-0.04	5775	155	U-NII-3	29.3	17.75	17.39	Back	5	0.942	0.310	1.119	1.022	1.084	0.355	0.678	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	0.06	5775	155	U-NII-3	29.3	17.75	17.26	Top	5	0.009	0.002	1.119	1.022	0.009	0.002	0.006	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	0.05	5775	155	U-NII-3	29.3	17.75	17.26	Bottom	5	0.223	0.076	1.119	1.022	0.255	0.087	0.159	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	-0.11	5775	155	U-NII-3	29.3	17.75	17.26	Right	5	0.131	0.049	1.119	1.022	0.150	0.056	0.094	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	0.09	5775	155	U-NII-3	29.3	17.75	17.26	Left	5	0.000	0.000	1.119	1.022	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: Blue entry represents variability measurement

Table 10-108 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	0.05	5775	155	U-NII-3	29.3	15.50	13.72	Back	5	0.146	0.119	1.507	1.022	0.564	0.183	0.353	14.10	0.400	0.250	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	0.01	5775	155	U-NII-3	29.3	15.50	13.72	Bottom	5	0.096	0.032	1.507	1.022	0.148	0.049	0.091	14.10	0.100	0.063	
Body	5 GHz WIFV / IEEE 802.11ac	80	OFDM	2a	N31.7H	97.87	-0.11	5775	155	U-NII-3	29.3	15.50	13.72	Right	5	0.060	0.016	1.507	1.022	0.077	0.025	0.048	14.10	0.050	0.031	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-109 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	76i6L	97.87	-0.07	5775	155	U-NII-3	29.3	18.50	17.72	Back	5	0.960	0.327	1.197	1.022	1.174	0.400	0.734	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	76i6L	97.87	0.02	5775	155	U-NII-3	29.3	18.50	17.72	Top	5	0.296	0.115	1.197	1.022	0.362	0.141	0.226	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	76i6L	97.87	0.03	5775	155	U-NII-3	29.3	18.50	17.72	Bottom	5	0.015	0.005	1.197	1.022	0.018	0.006	0.011	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	76i6L	97.87	0.01	5775	155	U-NII-3	29.3	18.50	17.72	Right	5	0.000	0.000	1.197	1.022	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	76i6L	97.87	0.01	5775	155	U-NII-3	29.3	18.50	17.72	Left	5	0.135	0.054	1.197	1.022	0.165	0.066	0.103	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-110 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	65W9S	97.87	-0.16	5775	155	U-NII-3	29.3	15.75	14.38	Back	5	0.418	0.158	1.373	1.022	0.586	0.193	0.365	14.15	0.400	0.250	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	65W9S	97.87	-0.13	5775	155	U-NII-3	29.3	15.75	14.38	Top	5	0.119	0.044	1.373	1.022	0.167	0.062	0.104	14.15	0.110	0.069	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4a	65W9S	97.87	0.07	5775	155	U-NII-3	29.3	15.75	14.38	Bottom	5	0.048	0.016	1.373	1.022	0.067	0.021	0.042	14.15	0.050	0.031	
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 WiFi / IEEE 802.11ac	80	OFDM	WF5b	76i6L	97.87	0.07	5775	155	U-NII-3	29.3	18.50	17.27	Back	5	0.046	0.017	1.327	1.022	0.062	0.023	0.039	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5b	76i6L	97.87	0.01	5775	155	U-NII-3	29.3	18.50	17.27	Top	5	0.000	0.000	1.327	1.022	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5b	76i6L	97.87	0.05	5775	155	U-NII-3	29.3	18.50	17.27	Bottom	5	0.019	0.006	1.327	1.022	0.026	0.008	0.016	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5b	76i6L	97.87	-0.06	5775	155	U-NII-3	29.3	18.50	17.27	Right	5	0.578	0.211	1.327	1.022	0.784	0.289	0.460	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5b	76i6L	97.87	0.06	5775	155	U-NII-3	29.3	18.50	17.27	Left	5	0.010	0.002	1.327	1.022	0.014	0.003	0.009	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.32 6 GHz WIFI SISO Standalone SAR and APD

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	P17X6	97.95	0.00	6025	15	68.1	15.75	14.93	Back	5	0.281	0.098	1.208	1.021	0.347	0.121	0.217		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.15	6345	79	68.1	13.25	11.45	Back	5	0.132	0.045	1.514	1.021	0.204	0.070	0.128		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.20	6505	111	68.1	14.00	12.30	Back	5	0.159	0.053	1.479	1.021	0.240	0.080	0.150		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.14	6665	143	68.1	13.75	12.35	Back	5	0.130	0.047	1.380	1.021	0.183	0.066	0.114		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.07	6885	207	68.1	14.50	13.95	Back	5	0.115	0.039	1.195	1.021	0.133	0.045	0.083		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	0.03	6025	15	68.1	15.75	14.93	Top	5	0.006	0.002	1.208	1.021	0.007	0.002	0.004		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.13	6025	15	68.1	15.75	14.93	Bottom	5	0.099	0.038	1.208	1.021	0.122	0.047	0.076		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.21	6025	15	68.1	15.75	14.93	Right	5	0.064	0.025	1.208	1.021	0.079	0.031	0.049		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	0.04	6025	15	68.1	15.75	14.93	Left	5	0.002	0.000	1.208	1.021	0.002	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							

Table 10-113 Absorbed Power Density Data - 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 APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	0.00	6025.00	15	68.1	15.8	14.93	Back	5	2.210	1.208	1.011	2.699	0.135	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.15	6345.00	79	68.1	13.3	11.45	Back	5	1.010	1.514	1.011	1.546	0.077	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.20	6505.00	111	68.1	14.0	12.30	Back	5	1.200	1.479	1.011	1.794	0.090	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.14	6665.00	143	68.1	13.8	12.35	Back	5	1.040	1.380	1.011	1.451	0.073	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.07	6885.00	207	68.1	14.5	13.95	Back	5	0.862	1.135	1.011	0.989	0.049	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	0.03	6025.00	15	68.1	15.8	14.93	Top	5	0.053	1.208	1.011	0.065	0.003	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.13	6025.00	15	68.1	15.8	14.93	Bottom	5	0.831	1.208	1.011	1.015	0.051	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	-0.21	6025.00	15	68.1	15.8	14.93	Right	5	0.553	1.208	1.011	0.675	0.034	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	2a	P17X6	97.95	0.04	6025.00	15	68.1	15.8	14.93	Left	5	0.006	1.208	1.011	0.024	0.001	

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RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Tablet Device

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Table 10-114 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)	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.14	6025	15	68.1	12.75	11.78	Back	5	0.335	0.108	1.250	1.021	0.428	0.138	0.268	A32
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.03	6345	79	68.1	14.00	12.78	Back	5	0.313	0.102	1.324	1.021	0.423	0.138	0.264	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.09	5505	111	68.1	13.50	12.15	Back	5	0.329	0.107	1.365	1.021	0.459	0.149	0.287	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.12	6665	143	68.1	14.50	12.98	Back	5	0.300	0.099	1.419	1.021	0.435	0.143	0.272	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.19	6985	207	68.1	13.75	13.60	Back	5	0.205	0.078	1.035	1.021	0.217	0.082	0.136	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.05	6665	143	68.1	14.50	12.98	Top	5	0.115	0.041	1.419	1.021	0.167	0.059	0.104	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.01	6665	143	68.1	14.50	12.98	Bottom	5	0.012	0.005	1.419	1.021	0.017	0.007	0.011	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.01	6665	143	68.1	14.50	12.98	Right	5	0.000	0.000	1.419	1.021	0.000	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.04	6665	143	68.1	14.50	12.98	Left	5	0.144	0.047	1.419	1.021	0.209	0.068	0.131	
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 10-115 Absorbed Power Density Data - 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 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	P17X6	97.95	-0.14	6025	15	68.1	12.75	11.78	Back	5	2.450	1.250	1.011	3.096	0.155	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.03	6345	79	68.1	14.00	12.78	Back	5	2.320	1.324	1.011	3.105	0.155	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.09	5505	111	68.1	13.50	12.15	Back	5	2.440	1.365	1.011	3.367	0.168	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.12	6665	143	68.1	14.50	12.98	Back	5	2.250	1.419	1.011	3.228	0.161	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.19	6985	207	68.1	13.75	13.60	Back	5	1.740	1.035	1.011	1.821	0.091	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	-0.05	6665	143	68.1	14.50	12.98	Top	5	0.927	1.419	1.011	1.330	0.067	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.01	6665	143	68.1	14.50	12.98	Bottom	5	0.103	1.419	1.011	0.148	0.007	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.01	6665	143	68.1	14.50	12.98	Right	5	0.000	1.419	1.011	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	P17X6	97.95	0.04	6665	143	68.1	14.50	12.98	Left	5	1.060	1.419	1.011	1.521	0.076	

Table 10-116 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	P17X6	97.95	0.05	6345	79	68.1	14.75	14.39	Back	5	0.029	0.011	1.086	1.021	0.032	0.012	0.020	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.04	6345	79	68.1	14.75	14.39	Top	5	0.000	0.000	1.086	1.021	0.000	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.01	6345	79	68.1	14.75	14.39	Bottom	5	0.060	0.003	1.086	1.021	0.011	0.003	0.007	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	-0.07	6025	15	68.1	14.75	13.70	Right	5	0.235	0.089	1.274	1.021	0.306	0.116	0.191	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.02	6345	79	68.1	14.75	14.39	Right	5	0.268	0.102	1.086	1.021	0.297	0.113	0.186	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	-0.10	5505	111	68.1	13.75	13.20	Right	5	0.275	0.104	1.135	1.021	0.319	0.121	0.199	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	-0.04	6665	143	68.1	13.50	13.24	Right	5	0.291	0.110	1.062	1.021	0.316	0.119	0.198	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.01	6985	207	68.1	13.75	12.70	Right	5	0.233	0.085	1.274	1.021	0.303	0.111	0.189	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.03	6345	79	68.1	14.75	14.39	Left	5	0.016	0.007	1.086	1.021	0.018	0.008	0.011	
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 10-117 Absorbed Power Density Data - 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 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	WF5B	P17X6	97.95	0.05	6345	79	68.1	14.75	14.39	Back	5	0.239	1.086	1.011	0.262	0.013	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.04	6345	79	68.1	14.75	14.39	Top	5	0.000	1.086	1.011	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.01	6345	79	68.1	14.75	14.39	Bottom	5	0.075	1.086	1.011	0.082	0.004	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	-0.07	6025	15	68.1	14.75	13.70	Right	5	1.990	1.274	1.011	2.563	0.128	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.02	6345	79	68.1	14.75	14.39	Right	5	2.280	1.086	1.011	2.503	0.125	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	-0.10	5505	111	68.1	13.75	13.20	Right	5	2.320	1.135	1.011	2.662	0.133	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	-0.04	6665	143	68.1	13.50	13.24	Right	5	2.440	1.062	1.011	2.620	0.131	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.01	6985	207	68.1	13.75	12.70	Right	5	1.910	1.274	1.011	2.460	0.123	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	P17X6	97.95	0.03	6345	79	68.1	14.75	14.39	Left	5	0.163	1.086	1.011	0.179	0.009	

10.33 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-118 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	GYQ4V	76.76	0.00	2402	0	1	18.00	17.40	Back	5	0.342	0.177	1.148	1.303	0.511	0.265	0.319	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	-0.02	2441	39	1	18.00	17.35	Back	5	0.319	0.166	1.161	1.303	0.482	0.251	0.301	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.00	2480	78	1	18.00	17.32	Back	5	0.410	0.210	1.169	1.303	0.624	0.320	0.390	A33
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.07	2402	0	1	18.00	17.40	Top	5	0.011	0.004	1.197	1.303	0.017	0.006	0.011	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	-0.06	2402	0	1	18.00	17.40	Bottom	5	0.155	0.061	1.148	1.303	0.232	0.091	0.145	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.03	2402	0	1	18.00	17.40	Right	5	0.315	0.151	1.148	1.303	0.471	0.226	0.294	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.01	2402	0	1	18.00	17.40	Left	5	0.000	0.000	1.148	1.303	0.000	0.000	0.000	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																					
													1.6 W/kg (mW/g) averaged over 1 gram								

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Table 10-119 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.00	2402	0	1	17.75	17.40	Back	5	0.342	0.177	1.084	1.303	0.483	0.250	0.302	16.15	0.330	0.206	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	-0.02	2441	39	1	17.75	17.35	Back	5	0.319	0.166	1.096	1.303	0.455	0.237	0.284	16.15	0.310	0.194	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.00	2480	78	1	17.75	17.32	Back	5	0.410	0.210	1.104	1.303	0.590	0.302	0.369	16.15	0.400	0.250	A33
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.07	2402	0	1	17.75	17.40	Top	5	0.011	0.004	1.187	1.303	0.017	0.006	0.011	16.15	0.010	0.006	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	-0.02	2402	0	1	17.75	17.40	Bottom	5	0.155	0.061	1.084	1.303	0.219	0.086	0.137	16.15	0.150	0.084	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.03	2402	0	1	17.75	17.40	Right	5	0.315	0.151	1.084	1.303	0.445	0.213	0.276	16.15	0.300	0.188	
Body	2.4 GHz Bluetooth	FHSS	2a	GYQ4V	76.76	0.01	2402	0	1	17.75	17.40	Left	5	0.000	0.000	1.084	1.303	0.000	0.000	0.000	16.15	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												

Table 10-120 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	GYQ4V	76.76	-0.11	2402	0	1	17.50	16.59	Back	5	0.121	0.170	1.233	1.303	0.516	0.273	0.323	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.04	2441	39	1	17.50	16.35	Back	5	0.344	0.180	1.303	1.303	0.584	0.306	0.365	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.02	2480	78	1	17.50	16.37	Back	5	0.392	0.204	1.297	1.303	0.662	0.345	0.414	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.01	2402	0	1	17.50	16.59	Top	5	0.193	0.075	1.233	1.303	0.310	0.120	0.194	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	0.05	2402	0	1	17.50	16.59	Bottom	5	0.011	0.005	1.233	1.303	0.018	0.008	0.011	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	0.08	2402	0	1	17.50	16.59	Right	5	0.001	0.000	1.233	1.303	0.002	0.000	0.001	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	0.01	2402	0	1	17.50	16.59	Left	5	0.338	0.159	1.233	1.303	0.543	0.255	0.339	
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 10-121 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.11	2402	0	1	17.00	16.59	Back	5	0.321	0.170	1.099	1.303	0.460	0.243	0.288	15.40	0.310	0.194	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.04	2441	39	1	17.00	16.35	Back	5	0.344	0.180	1.161	1.303	0.520	0.272	0.325	15.40	0.350	0.219	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.02	2480	78	1	17.00	16.37	Back	5	0.392	0.204	1.156	1.303	0.590	0.307	0.369	15.40	0.400	0.250	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	-0.01	2402	0	1	17.00	16.59	Top	5	0.193	0.075	1.099	1.303	0.276	0.107	0.173	15.40	0.190	0.119	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	0.05	2402	0	1	17.00	16.59	Bottom	5	0.011	0.005	1.099	1.303	0.016	0.007	0.010	15.40	0.010	0.006	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	0.08	2402	0	1	17.00	16.59	Right	5	0.001	0.000	1.099	1.303	0.001	0.000	0.001	15.40	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	4a	GYQ4V	76.76	0.01	2402	0	1	17.00	16.59	Left	5	0.338	0.159	1.099	1.303	0.484	0.228	0.303	15.40	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												

10.34 802.15.4 Standalone SAR

Table 10-122 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	GYQ4V	-0.03	2405	11	1	18.25	17.32	Back	5	0.465	0.250	1.472	0.684	0.368	0.428	
Body	802.15.4	2a	GYQ4V	-0.04	2440	18	1	18.25	17.20	Back	5	0.456	0.244	1.514	0.690	0.369	0.431	
Body	802.15.4	2a	GYQ4V	-0.02	2475	25	1	18.25	17.37	Back	5	0.479	0.238	1.455	0.697	0.346	0.436	
Body	802.15.4	2a	GYQ4V	0.01	2475	25	1	18.25	17.37	Top	5	0.012	0.006	1.455	0.017	0.009	0.011	
Body	802.15.4	2a	GYQ4V	-0.01	2475	25	1	18.25	17.37	Bottom	5	0.246	0.096	1.455	0.358	0.140	0.224	
Body	802.15.4	2a	GYQ4V	-0.02	2475	25	1	18.25	17.37	Right	5	0.414	0.198	1.455	0.602	0.288	0.376	
Body	802.15.4	2a	GYQ4V	0.04	2475	25	1	18.25	17.37	Left	5	0.000	0.000	1.455	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								

Table 10-123 Reduced 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	GYQ4V	-0.03	2405	11	1	18.25	17.32	Back	5	0.465	0.250	1.239	0.576	0.310	0.360	16.65	0.390	0.244	
Body	802.15.4	2a	GYQ4V	-0.04	2440	18	1	18.25	17.20	Back	5	0.456	0.244	1.274	0.581	0.311	0.363	16.65	0.400	0.250	
Body	802.15.4	2a	GYQ4V	-0.02	2475	25	1	18.25	17.37	Back	5	0.479	0.238	1.225	0.587	0.292	0.367	16.65	0.400	0.250	
Body	802.15.4	2a	GYQ4V	0.01	2475	25	1	18.25	17.37	Top	5	0.012	0.006	1.225	0.015	0.007	0.009	16.65	0.010	0.006	
Body	802.15.4	2a	GYQ4V	-0.01	2475	25	1	18.25	17.37	Bottom	5	0.246	0.096	1.225	0.301	0.118	0.188	16.65	0.210	0.131	
Body	802.15.4	2a	GYQ4V	-0.02	2475	25	1	18.25	17.37	Right	5	0.414	0.198	1.225	0.507	0.243	0.317	16.65	0.390	0.219	
Body	802.15.4	2a	GYQ4V	0.04	2475	25	1	18.25	17.37	Left	5	0.000	0.000	1.225	0.000	0.000	0.000	16.65	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									

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Table 10-124 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	GYQ4V	-0.01	2405	11	1	18.00	17.15	Back	5	0.621	0.313	1.216	0.755	0.381	0.472	
Body	802.15.4	4a	GYQ4V	-0.02	2440	18	1	18.00	17.05	Back	5	0.654	0.330	1.245	0.814	0.411	0.509	A34
Body	802.15.4	4a	GYQ4V	-0.01	2475	25	1	18.00	17.26	Back	5	0.638	0.325	1.186	0.757	0.385	0.473	
Body	802.15.4	4a	GYQ4V	0.03	2475	25	1	18.00	17.26	Top	5	0.323	0.128	1.186	0.383	0.152	0.239	
Body	802.15.4	4a	GYQ4V	-0.06	2475	25	1	18.00	17.26	Bottom	5	0.016	0.007	1.186	0.019	0.008	0.012	
Body	802.15.4	4a	GYQ4V	0.06	2475	25	1	18.00	17.26	Right	5	0.000	0.000	1.186	0.000	0.000	0.000	
Body	802.15.4	4a	GYQ4V	-0.01	2475	25	1	18.00	17.26	Left	5	0.536	0.253	1.186	0.636	0.300	0.398	
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 10-125 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	4a	GYQ4V	0.01	2475	25	1	16.25	15.94	Back	5	0.529	0.273	1.074	0.580	0.299	0.363	14.65	0.400	0.250	
Body	802.15.4	4a	GYQ4V	0.02	2475	25	1	16.25	15.94	Top	5	0.262	0.106	1.074	0.287	0.116	0.179	14.65	0.200	0.125	
Body	802.15.4	4a	GYQ4V	-0.02	2475	25	1	16.25	15.94	Left	5	0.484	0.227	1.074	0.530	0.249	0.331	14.65	0.370	0.231	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

10.35 NB U-NII 1 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	NB U-NII 1	HDR	2a	7616L	78.25	0.04	5245	High	8	12.50	11.53	Back	5	0.293	0.093	1.250	0.468	0.149	0.293	11.90	0.400	0.250		
Body	NB U-NII 1	HDR	2a	7616L	78.25	0.02	5245	High	8	12.50	11.53	Top	5	0.000	0.000	1.250	0.000	0.000	0.000	11.90	0.000	0.000		
Body	NB U-NII 1	HDR	2a	7616L	78.25	0.05	5245	High	8	12.50	11.53	Bottom	5	0.029	0.008	1.250	0.046	0.013	0.029	11.90	0.040	0.025		
Body	NB U-NII 1	HDR	2a	7616L	78.25	0.08	5245	High	8	12.50	11.53	Right	5	0.056	0.015	1.250	0.089	0.024	0.056	11.90	0.080	0.050		
Body	NB U-NII 1	HDR	2a	7616L	78.25	0.03	5245	High	8	12.50	11.53	Left	5	0.000	0.000	1.250	0.000	0.000	0.000	11.90	0.000	0.000		
ANSI/IEEE C95.3 1992 - SAFETY LIMIT														Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																								

Table 10-127 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	NB U-NII 1	HDR	4a	7616L	76.76	-0.12	5204	Mid	8	13.50	12.28	Back	5	0.279	0.093	1.324	0.481	0.160	0.301	12.70	0.400	0.250		
Body	NB U-NII 1	HDR	4a	7616L	76.76	0.01	5204	Mid	8	13.50	12.28	Top	5	0.076	0.027	1.324	0.131	0.047	0.082	12.70	0.110	0.069		
Body	NB U-NII 1	HDR	4a	7616L	76.76	0.01	5204	Mid	8	13.50	12.28	Bottom	5	0.000	0.000	1.324	0.000	0.000	0.000	12.70	0.000	0.000		
Body	NB U-NII 1	HDR	4a	7616L	76.76	0.05	5204	Mid	8	13.50	12.28	Right	5	0.000	0.000	1.324	0.000	0.000	0.000	12.70	0.000	0.000		
Body	NB U-NII 1	HDR	4a	7616L	76.76	0.09	5204	Mid	8	13.50	12.28	Left	5	0.065	0.019	1.324	0.112	0.033	0.070	12.70	0.090	0.056		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																								

Table 10-128 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	7616L	78.25	0.09	5245	High	8	12.50	11.61	Back	5	0.006	0.002	1.227	0.009	0.003	0.006	
Body	NB U-NII 1	HDR	WF5b	7616L	78.25	0.09	5245	High	8	12.50	11.61	Top	5	0.000	0.000	1.227	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF5b	7616L	78.25	0.03	5245	High	8	12.50	11.61	Bottom	5	0.001	0.000	1.227	0.002	0.000	0.001	
Body	NB U-NII 1	HDR	WF5b	7616L	78.25	0.20	5245	High	8	12.50	11.61	Right	5	0.086	0.031	1.227	0.135	0.049	0.084	
Body	NB U-NII 1	HDR	WF5b	7616L	78.25	0.05	5245	High	8	12.50	11.61	Left	5	0.000	0.000	1.227	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								

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DUT Type: Tablet Device		Technical Manager
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10.36 NB U-NII 3 Standalone SAR

Table 10-129 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	QNKQ6	76.76	0.02	5844	High	1	17.00	15.43	Back	5	0.349	0.113	1.435	0.652	0.211	0.408	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	-0.13	5733	Low	1	17.00	15.89	Back	5	0.697	0.229	1.291	1.172	0.385	0.733	A35
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	-0.08	5789	Mid	1	17.00	15.53	Back	5	0.572	0.188	1.403	1.045	0.344	0.653	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	0.05	5733	Low	1	17.00	15.89	Top	5	0.004	0.000	1.291	0.007	0.000	0.004	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	-0.13	5733	Low	1	17.00	15.89	Bottom	5	0.164	0.056	1.291	0.276	0.094	0.173	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	0.01	5733	Low	1	17.00	15.89	Right	5	0.094	0.032	1.291	0.158	0.054	0.099	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	0.04	5733	Low	1	17.00	15.89	Left	5	0.000	0.000	1.291	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							

Table 10-130 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	0.06	5733	Low	1	14.00	12.91	Back	5	0.306	0.100	1.285	0.512	0.167	0.320	13.00	0.400	0.250	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	0.03	5733	Low	1	14.00	12.91	Bottom	5	0.072	0.026	1.285	0.121	0.044	0.076	13.00	0.090	0.056	
Body	NB U-NII 3	FHSS	2a	QNKQ6	76.76	-0.18	5733	Low	1	14.00	12.91	Right	5	0.035	0.010	1.285	0.059	0.017	0.037	13.00	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										

Table 10-131 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)	Simultaneous Reported Exposure Ratio (1g SAR)	Simultaneous Reported Exposure Ratio (10g SAR)	Plot #
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	-0.12	5844	High	1	17.00	16.18	Back	5	0.614	0.208	1.208	0.966	0.327	0.604			
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	-0.17	5733	Low	1	17.00	15.99	Back	5	0.445	0.152	1.262	0.732	0.250	0.458			
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	-0.11	5789	Mid	1	17.00	16.15	Back	5	0.483	0.165	1.216	0.765	0.261	0.478			
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	-0.12	5844	High	1	17.00	16.18	Top	5	0.217	0.084	1.208	0.342	0.132	0.214			
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	0.01	5844	High	1	17.00	16.18	Bottom	5	0.022	0.008	1.208	0.035	0.013	0.022			
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	0.01	5844	High	1	17.00	16.18	Right	5	0.002	0.000	1.208	0.003	0.000	0.002			
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	-0.15	5844	High	1	17.00	16.18	Left	5	0.093	0.038	1.208	0.146	0.060	0.091			
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 10-132 Reduced 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	0.11	5733	Low	1	15.50	14.36	Back	5	0.325	0.109	1.300	0.550	0.185	0.344	14.20	0.400	0.250	
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	0.08	5733	Low	1	15.50	14.36	Top	5	0.099	0.035	1.300	0.168	0.059	0.105	14.20	0.120	0.075	
Body	NB U-NII 3	FHSS	4a	76J6L	76.76	0.09	5733	Low	1	15.50	14.36	Left	5	0.053	0.021	1.300	0.090	0.036	0.056	14.20	0.070	0.044	
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 10-133 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 3	FHSS	WF5b	N3L7H	76.76	0.06	5733	Low	1	18.50	17.81	Back	5	0.058	0.022	1.172	0.089	0.034	0.056		
Body	NB U-NII 3	FHSS	WF5b	N3L7H	76.76	0.05	5733	Low	1	18.50	17.81	Top	5	0.000	0.000	1.172	0.000	0.000	0.000		
Body	NB U-NII 3	FHSS	WF5b	N3L7H	76.76	0.05	5733	Low	1	18.50	17.81	Bottom	5	0.017	0.005	1.172	0.026	0.008	0.016		
Body	NB U-NII 3	FHSS	WF5b	N3L7H	76.76	0.16	5733	Low	1	18.50	17.81	Right	5	0.417	0.156	1.172	0.637	0.238	0.398		
Body	NB U-NII 3	FHSS	WF5b	N3L7H	76.76	0.01	5733	Low	1	18.50	17.81	Left	5	0.008	0.000	1.172	0.012	0.000	0.008		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body								
Spatial Peak													1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 1 gram								

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10.37 NB U-NII 5 Standalone SAR

Table 10-134 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	K7HVV	80.00	0.03	6109	6109000	8	1.25	0.88	Back	5	0.013	0.003	1.089	0.018	0.004	0.011	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.04	6186	6186000	8	1.25	1.01	Back	5	0.015	0.005	1.057	0.020	0.007	0.013	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.05	6340	6340000	8	1.25	0.51	Back	5	0.012	0.003	1.186	0.018	0.004	0.011	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.08	6417	6417000	8	1.25	0.47	Back	5	0.018	0.009	1.197	0.027	0.013	0.017	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.07	6263	Mid	8	1.25	0.54	Back	5	0.012	0.004	1.178	0.018	0.006	0.011	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.06	6186	6186000	8	1.25	1.01	Top	5	0.000	0.000	1.057	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.01	6186	6186000	8	1.25	1.01	Bottom	5	0.003	0.000	1.057	0.004	0.000	0.003	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.01	6186	6186000	8	1.25	1.01	Right	5	0.003	0.000	1.057	0.004	0.000	0.003	
Body	NB U-NII 5	HDR	2a	K7HVV	80.00	0.09	6186	6186000	8	1.25	1.01	Left	5	0.000	0.000	1.057	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																				

Table 10-135 Absorbed Power Density Data - 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 APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.03	6109	6109000	8	1.3	0.88	Back	5	0.069	1.089	0.094	0.005	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.04	6186	6186000	8	1.3	1.01	Back	5	0.105	1.057	0.139	0.007	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.05	6340	6340000	8	1.3	0.51	Back	5	0.077	1.186	0.114	0.006	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.08	6417	6417000	8	1.3	0.47	Back	5	0.196	1.197	0.293	0.015	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.07	6263	Mid	8	1.3	0.54	Back	5	0.084	1.178	0.124	0.006	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.06	6186	6186000	8	1.3	1.01	Top	5	0.003	1.057	0.004	0.000	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.01	6186	6186000	8	1.3	1.01	Bottom	5	0.021	1.057	0.028	0.001	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.01	6186	6186000	8	1.3	1.01	Right	5	0.015	1.057	0.020	0.001	
Body	NB U-NII 5	HDR	2a	K7HVV	80	0.09	6186	6186000	8	1.3	1.01	Left	5	0.000	1.057	0.000	0.000	

Table 10-136 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	K7HVV	80.00	0.05	6109	6109000	8	0.50	0.31	Back	5	0.011	0.002	1.045	0.014	0.003	0.009	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.02	6186	6186000	8	0.50	0.43	Back	5	0.014	0.004	1.016	0.018	0.005	0.011	
Body	NB U-NII 5	HDR	4a	P17M5	80.00	0.01	6186	6186000	8	0.50	0.48	Back	5	0.012	0.003	1.005	0.015	0.004	0.009	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.04	6340	6340000	8	0.50	-0.07	Back	5	0.009	0.002	1.140	0.013	0.003	0.008	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.01	6417	6417000	8	0.50	-0.21	Back	5	0.007	0.002	1.178	0.010	0.003	0.006	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.01	6263	Mid	8	0.50	0.12	Back	5	0.006	0.002	1.091	0.008	0.003	0.005	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.01	6186	6186000	8	0.50	0.43	Top	5	0.002	0.000	1.016	0.003	0.000	0.002	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.02	6186	6186000	8	0.50	0.43	Bottom	5	0.000	0.000	1.016	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.07	6186	6186000	8	0.50	0.43	Right	5	0.000	0.000	1.016	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	4a	K7HVV	80.00	0.01	6186	6186000	8	0.50	0.43	Left	5	0.000	0.000	1.016	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																				

Table 10-137 Absorbed Power Density Data - 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 APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.05	6109	6109000	8	0.5	0.31	Back	5	0.057	1.045	0.074	0.004	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.02	6186	6186000	8	0.5	0.43	Back	5	0.082	1.016	0.104	0.005	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.04	6340	6340000	8	0.5	-0.07	Back	5	0.054	1.140	0.077	0.004	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.01	6417	6417000	8	0.5	-0.21	Back	5	0.053	1.178	0.078	0.004	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.01	6263	Mid	8	0.5	0.12	Back	5	0.017	1.091	0.050	0.003	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.01	6186	6186000	8	0.5	0.43	Top	5	0.012	1.016	0.015	0.001	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.02	6186	6186000	8	0.5	0.43	Bottom	5	0.000	1.016	0.000	0.000	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.07	6186	6186000	8	0.5	0.43	Right	5	0.000	1.016	0.000	0.000	
Body	NB U-NII 5	HDR	4a	K7HVV	80	0.01	6186	6186000	8	0.5	0.43	Left	5	0.000	1.016	0.000	0.000	

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Table 10-138 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	K7HVV	80.00	0.02	6186	6186000	8	0.25	0.14	Back	5	0.002	0.000	1.026	0.003	0.000	0.002	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.04	6186	6186000	8	0.25	0.14	Top	5	0.000	0.000	1.026	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.07	6186	6186000	8	0.25	0.14	Bottom	5	0.000	0.000	1.026	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.09	6109	6109000	8	0.25	-0.20	Right	5	0.008	0.002	1.109	0.011	0.003	0.007	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.04	6186	6186000	8	0.25	0.14	Right	5	0.011	0.004	1.026	0.014	0.005	0.009	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.06	6340	6340000	8	0.25	-0.24	Right	5	0.005	0.002	1.119	0.007	0.003	0.004	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.01	6417	6417000	8	0.25	-0.39	Right	5	0.006	0.003	1.159	0.009	0.004	0.006	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.07	6263	Mid	8	0.25	0.11	Right	5	0.000	0.000	1.033	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80.00	0.01	6186	6186000	8	0.25	0.14	Left	5	0.000	0.000	1.026	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								

Table 10-139 Absorbed Power Density Data - 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 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	WF5B	K7HVV	80	0.02	6186	6186000	8	0.3	0.14	Back	5	0.017	1.026	0.022	0.001	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.04	6186	6186000	8	0.3	0.14	Top	5	0.000	1.026	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.07	6186	6186000	8	0.3	0.14	Bottom	5	0.000	1.026	0.000	0.000	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.09	6109	6109000	8	0.3	-0.20	Right	5	0.054	1.109	0.075	0.004	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.04	6186	6186000	8	0.3	0.14	Right	5	0.099	1.026	0.127	0.006	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.06	6340	6340000	8	0.3	-0.24	Right	5	0.041	1.119	0.057	0.003	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.01	6417	6417000	8	0.3	-0.39	Right	5	0.064	1.159	0.093	0.005	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.07	6263	Mid	8	0.3	0.11	Right	5	0.006	1.033	0.008	0.000	
Body	NB U-NII 5	HDR	WF5B	K7HVV	80	0.01	6186	6186000	8	0.3	0.14	Left	5	0.000	1.026	0.000	0.000	

10.38 WPT Standalone SAR

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Plot #
Body	NFC	B	wPT	QNQK6	0.01	13.60	Back	5	0.000	A36
Body	NFC	B	wPT	QNQK6	0.01	13.60	Top	5	0.000	
Body	NFC	B	wPT	QNQK6	0.06	13.60	Bottom	5	0.000	
Body	NFC	B	wPT	QNQK6	0.04	13.60	Right	5	0.000	
Body	NFC	B	wPT	QNQK6	0.07	13.60	Left	5	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 for 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/NB UNII SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 8.14 and 8.22 for the time domain plot and calculation for the duty factor of the device.

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10.40 Power Density Data

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 #
6505	111	802.11ax	OFDM	160	13.75	13.20	-0.04	2	5B	P17X6	68.1	Right	97.95	0.041	1.590	1.554	1.135	1.021	3.620	6.52	3.930	7.077	A37
6505	111	802.11ax	OFDM	160	13.75	13.20	-0.03	9.22	5B	P17X6	68.1	Right	97.95	0.041	1.090	1.554	1.135	1.021	1.500	2.70	1.690	3.043	
6505	111	802.11ax	OFDM	160	13.50	12.15	0.10	2	4a	P17X6	68.1	Back	97.95	0.041	1.090	1.554	1.365	1.021	2.490	5.39	3.260	7.060	
6505	111	802.11ax	OFDM	160	13.50	12.15	-0.16	9.22	4a	P17X6	68.1	Back	97.95	0.041	1.020	1.554	1.365	1.021	1.490	3.23	1.600	3.465	
6025	15	802.11ax	OFDM	160	15.75	14.93	-0.01	2	2a	P17X6	68.1	Back	97.95	0.041	0.990	1.554	1.208	1.021	2.930	5.62	3.680	7.053	
6025	15	802.11ax	OFDM	160	15.75	14.93	0.00	9.95	2a	P17X6	68.1	Back	97.95	0.041	0.494	1.554	1.208	1.021	0.862	1.65	1.070	2.051	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²													
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 #
6186	Low-Mid	NB UNII 5	HDR	8	0.25	0.14	0.09	2	5B	K7HVV	8	Right	80.00	0.041	0.213	1.554	1.026	1.250	0.250	0.50	0.270	0.538	
6186	Low-Mid	NB UNII 5	HDR	8	0.25	0.14	0.03	9.69	5B	K7HVV	8	Right	80.00	0.041	0.136	1.554	1.026	1.250	0.168	0.33	0.172	0.343	
6186	Low-Mid	NB UNII 5	HDR	8	0.50	0.43	0.02	2	4a	K7HVV	8	Back	80.00	0.041	0.199	1.554	1.016	1.250	0.285	0.56	0.334	0.659	A38
6186	Low-Mid	NB UNII 5	HDR	8	0.50	0.43	0.09	9.69	4a	K7HVV	8	Back	80.00	0.041	0.116	1.554	1.016	1.250	0.099	0.20	0.106	0.209	
6417	High	NB UNII 5	HDR	8	1.25	0.47	0.03	2	2a	K7HVV	8	Back	80.00	0.041	0.165	1.554	1.197	1.250	0.239	0.56	0.278	0.646	
6417	High	NB UNII 5	HDR	8	1.25	0.47	0.16	9.34	2a	K7HVV	8	Back	80.00	0.041	0.186	1.554	1.197	1.250	0.146	0.34	0.150	0.349	
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 $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ 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 $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
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
	MHz	Ch.							(W/kg)	(W/kg)	
750	793.0	158600	NR Band n14, 10 MHz Bandwidth	DFT-s-OFDM, QPSK, 50 RB, 0 RB Offset	1	N/A	Back	5 mm	1.090	1.010	1.08
835	836.50	20525	LTE Band 5, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	3	N/A	Back	5 mm	1.030	0.969	1.06
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 108 RB, 108 RB Offset	2b	N/A	Bottom	5 mm	1.030	0.978	1.05
1900	1880.00	9400	UMTS Band 2	RMC	4b	N/A	Top	5 mm	1.130	1.030	1.10
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	1	N/A	Bottom	5 mm	1.170	1.090	1.07
2450	2549.50	40185	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	4b	N/A	Top	5 mm	1.130	0.987	1.14
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	DFT-s-OFDM QPSK, 1 RB, 137 RB Offset	3	N/A	Back	5 mm	1.150	1.150	1.00
3500	3500.01	633334	NR Band n77 DoD, 100 MHz Bandwidth	DFT-s-OFDM QPSK, 1 RB, 137 RB Offset	1	N/A	Bottom	5mm	1.080	0.975	1.11
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM QPSK, 135 RB, 69 RB Offset	1	N/A	Left	5mm	1.020	0.952	1.07
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM QPSK, 1 RB, 137 RB Offset	2b	N/A	Bottom	5 mm	1.110	1.010	1.10
5250	5230	46	5 GHz WiFi/IEEE 802.11n, 40 MHz Bandwidth	OFDM	2a	13.5	Back	5 mm	1.100	1.080	1.02
5600	5610	122	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	2a	29.3	Back	5 mm	0.951	0.936	1.02
5750	5775	155	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	2a	29.3	Back	5 mm	0.964	0.948	1.02
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

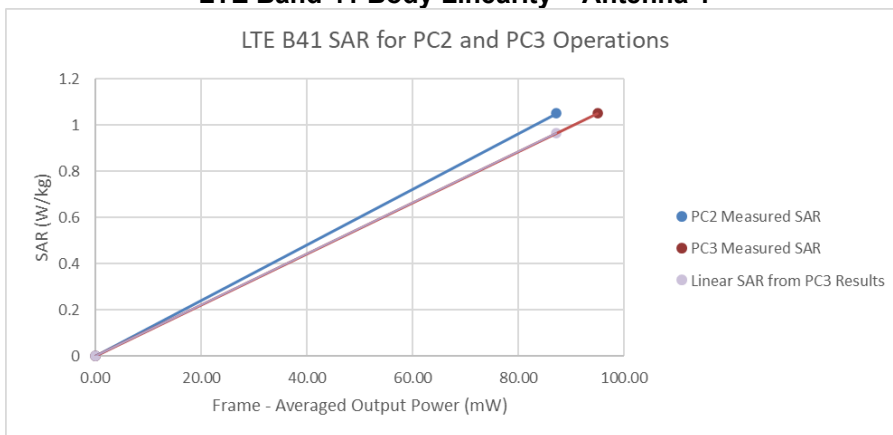
12.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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)	21.9	23.5
Measured Output Power (dBm)	21.76	23.04
Measured SAR (W/kg)	1.050	1.050
Measured Power (mW)	149.97	201.37
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	94.93	87.19
% deviation from expected linearity		8.87%

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



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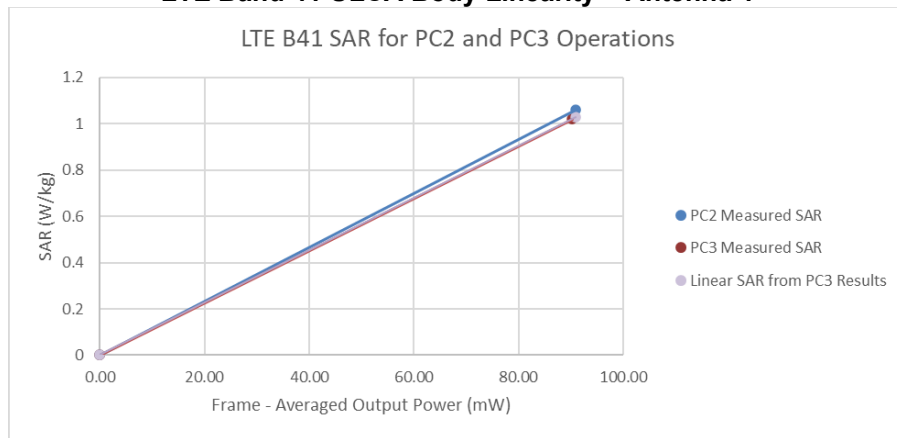
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Table 12-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.9	23.5
Measured Output Power (dBm)	21.54	23.22
Measured SAR (W/kg)	1.020	1.060
Measured Power (mW)	142.56	209.89
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	90.24	90.88
% deviation from expected linearity		3.19%

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



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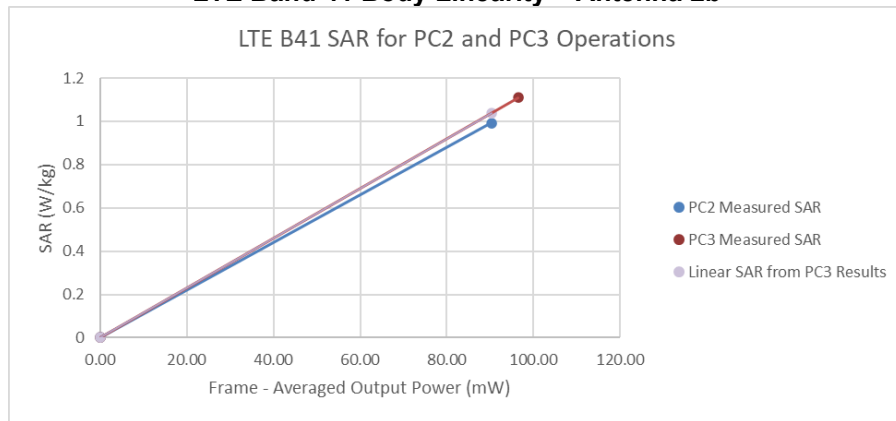
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Table 12-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.1	23.7
Measured Output Power (dBm)	21.83	23.19
Measured SAR (W/kg)	1.110	0.993
Measured Power (mW)	152.41	208.45
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	96.47	90.26
% deviation from expected linearity		-4.38%

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



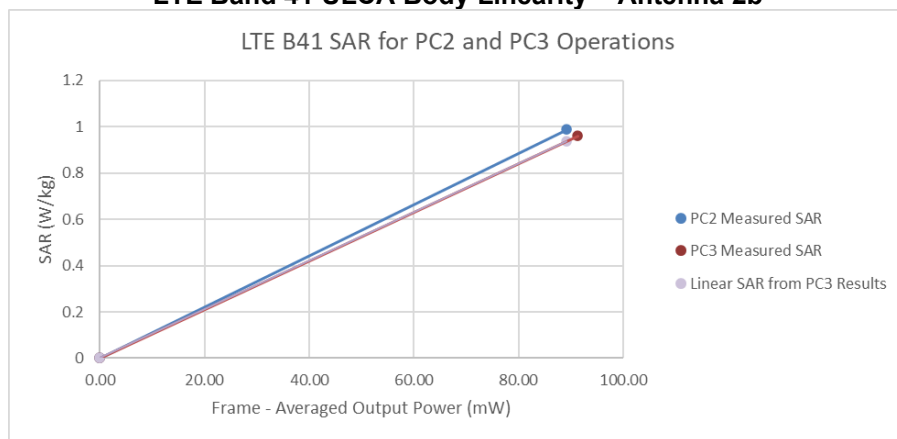
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Table 12-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.1	23.7
Measured Output Power (dBm)	21.59	23.14
Measured SAR (W/kg)	0.960	0.989
Measured Power (mW)	144.21	206.06
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	91.29	89.23
% deviation from expected linearity		5.40%

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



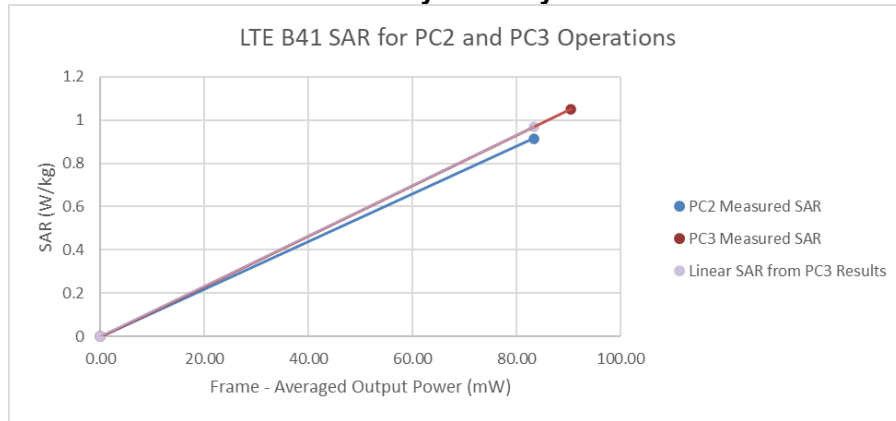
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Table 12-5
LTE Band 41 Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.90	23.50
Measured Output Power (dBm)	21.55	22.84
Measured SAR (W/kg)	1.050	0.915
Measured Power (mW)	142.89	192.31
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	90.45	83.27
% deviation from expected linearity		-5.34%

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



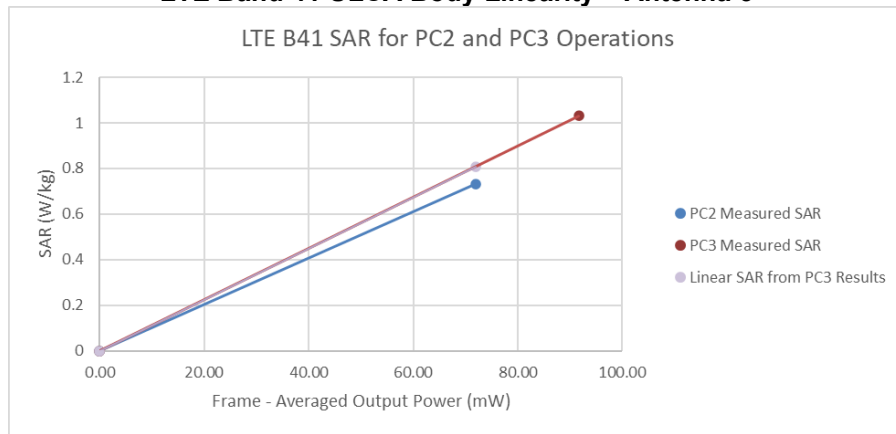
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Table 12-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.9	23.5
Measured Output Power (dBm)	21.61	22.21
Measured SAR (W/kg)	1.030	0.732
Measured Power (mW)	144.88	166.34
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	91.71	72.03
% deviation from expected linearity		-9.51%

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



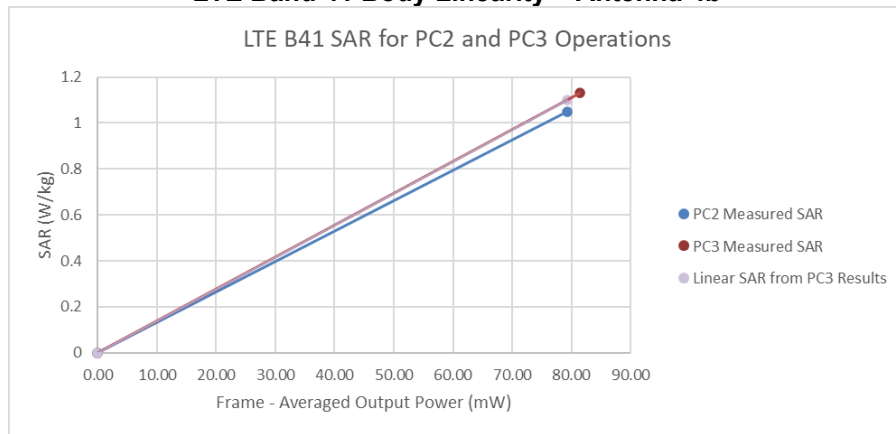
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Table 12-7
LTE Band 41 Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.3	22.9
Measured Output Power (dBm)	21.09	22.63
Measured SAR (W/kg)	1.130	1.050
Measured Power (mW)	128.53	183.23
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	81.36	79.34
% deviation from expected linearity		-4.71%

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



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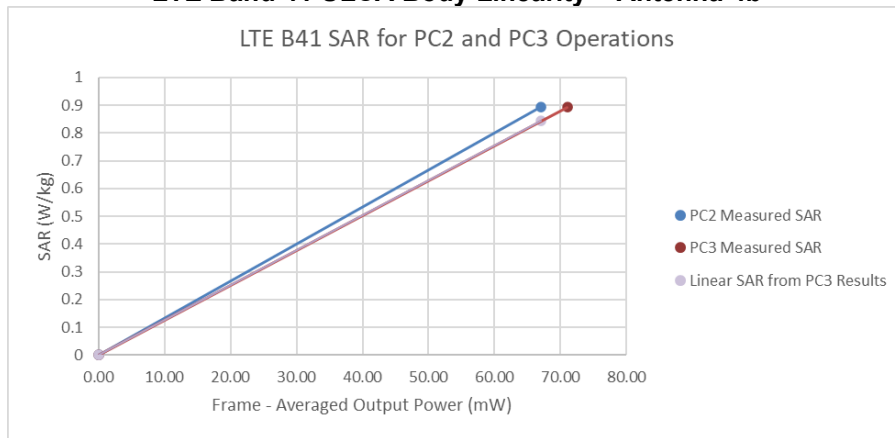
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Table 12-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.3	22.9
Measured Output Power (dBm)	20.50	21.90
Measured SAR (W/kg)	0.893	0.894
Measured Power (mW)	112.20	154.88
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	71.02	67.06
% deviation from expected linearity		6.02%

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



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13 EQUIPMENT LIST

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.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MP45113442
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MP45020382
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MP45020378
Agilent	N5182A	MMX Vector Signal Generator	5/30/2025	Annual	5/30/2026	MP46103186
Agilent	8733B	S-Parameter Vector Network Analyzer	1/26/2025	Annual	1/26/2026	MP46001477
Agilent	8733B	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MP46001841
Agilent	E5115C	Wireless Communications Test Set	CBT	N/A	CBT	GB46101718
Agilent	E5115C	Wireless Communications Test Set	CBT	N/A	CBT	GB46102275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	155106	Amplifier	CBT	N/A	CBT	481973
Amplifier Research	155106	Amplifier	CBT	N/A	CBT	481974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amtron	MN6120B	VCO Adapter	CBT	N/A	CBT	626174961
Amtron	ML2495A	Power Meter	6/27/2025	Annual	6/27/2026	1540005
Amtron	ML2495A	Power Meter	7/3/2025	Annual	7/3/2026	1059008
Amtron	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	172262
Amtron	MA2411B	Pulse Power Sensor	10/25/2024	Annual	10/25/2025	1027293
Instek	1108-150	Instek - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Amtron	MA2410A	USB Power Sensor	5/28/2025	Annual	5/28/2026	1244554
Amtron	MA2410A	USB Power Sensor	10/28/2024	Annual	10/28/2025	1248508
Mini-Circuits	PWR-400W	9-40W 400MHz USB Power Sensor	4/29/2025	Annual	4/29/2026	1250170057
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	240173919
Control Company	4040	Therm./Clock/Humidity Monitor	4/15/2024	Biennial	4/15/2026	240130380
Control Company	4040	Therm./Clock/Humidity Monitor	10/15/2024	Biennial	10/15/2026	240163503
Control Company	4040	Therm./Clock/Humidity Monitor	4/15/2024	Biennial	4/15/2026	240130382
Keyight Technologies	N9020A	MIXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MP46010213
Agilent	N9020A	MIXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MP56470082
NCL	BW-480W5+	6dB Attenuator	CBT	N/A	CBT	1139
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	7/9/2025	Annual	7/9/2026	318234
Mini-Circuits	BW-N200W5+	DC to 38 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-120W+	Low Pass Filter DC to 1200 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-N200W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	Z10K-20-18-5+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (SMB)	CBT	N/A	CBT	9406
Narda	BW-31W2	Attenuator (SMB)	CBT	N/A	CBT	120
Knacberger	374006-016	Torque Wrench	4/27/2024	Biennial	4/27/2026	N/A
Pedernack	NC-100	Torque Wrench	5/28/2025	Biennial	5/28/2027	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	105060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
SPEAR	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAR	DAK-3.5	Portable Dielectric Assessment Kit	6/21/2024	Annual	6/21/2025	1244
SPEAR	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAR	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAR	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1130
SPEAR	DAK-12	Dielectric Assessment Kit (DAK-12)	5/10/2025	Annual	5/10/2026	1102
GW Instek	GPS-3000D	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAR	LA-1.1	Confocal Load Antenna	11/11/2024	Annual	11/11/2025	1204
SPEAR	D1750V2	1750 MHz S&B Dipole	11/13/2022	Triennial	11/13/2025	1040
SPEAR	D1750V2	1750 MHz S&B Dipole	2/26/2025	Annual	2/26/2026	1083
SPEAR	D1800V2	1800 MHz S&B Dipole	10/23/2024	Annual	10/23/2025	14113
SPEAR	D2300V2	2300 MHz S&B Dipole	5/11/2024	Biennial	5/11/2026	1038
SPEAR	D2450V2	2450 MHz S&B Dipole	11/15/2022	Triennial	11/15/2025	895
SPEAR	D2450V2	2450 MHz S&B Dipole	10/31/2024	Annual	10/31/2025	511
SPEAR	D2450V2	2450 MHz S&B Dipole	5/13/2025	Annual	5/13/2026	750
SPEAR	D2600V2	2600 MHz S&B Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAR	D2600V2	2600 MHz S&B Dipole	6/12/2025	Biennial	6/12/2027	1260
SPEAR	D3500V2	3500 MHz S&B Dipole	8/17/2022	Triennial	8/17/2025	1055
SPEAR	D3500V2	3500 MHz S&B Dipole	6/10/2024	Biennial	6/10/2026	1126
SPEAR	D3700V2	3700 MHz S&B Dipole	10/21/2022	Triennial	10/21/2025	1002
SPEAR	D3800V2	3800 MHz S&B Dipole	11/7/2024	Annual	11/7/2025	1062
SPEAR	D5GHV2	5 GHz S&B Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAR	D5GHV2	5 GHz S&B Dipole	4/21/2025	Annual	4/21/2026	1163
SPEAR	D5GHV2	6 GHz S&B Dipole	10/10/2024	Annual	10/10/2025	1019
SPEAR	D750V1	750 MHz S&B Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAR	D750V1	750 MHz S&B Dipole	5/6/2025	Annual	5/6/2026	1057
SPEAR	D835V2	835 MHz S&B Dipole	11/18/2022	Triennial	11/18/2025	46108
SPEAR	D835V2	835 MHz S&B Dipole	10/25/2024	Annual	10/25/2025	46040
SPEAR	50 Verification Source 100W	300W System Verification Antenna	10/6/2024	Annual	10/6/2025	1006
SPEAR	DAE4	Day Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAR	DAE4	Day Data Acquisition Electronics	9/10/2024	Annual	9/10/2025	793
SPEAR	DAE4	Day Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAR	DAE4	Day Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAR	DAE4	Day Data Acquisition Electronics	5/12/2025	Annual	5/12/2026	124
SPEAR	DAE4	Day Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1644
SPEAR	DAE4	Day Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1084
SPEAR	DAE4	Day Data Acquisition Electronics	9/5/2024	Annual	9/5/2025	1446
SPEAR	DAE4	Day Data Acquisition Electronics	5/13/2025	Annual	5/13/2026	1083
SPEAR	DAE4	Day Data Acquisition Electronics	3/6/2025	Annual	3/6/2026	604
SPEAR	DAE4	Day Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1183
SPEAR	DAE4	Day Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1403
SPEAR	DAE4	Day Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1217
SPEAR	DAE4	Day Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1402
SPEAR	EK30V4	S&B Probe	4/11/2025	Annual	4/11/2026	7917
SPEAR	EK30V4	S&B Probe	4/14/2025	Annual	4/14/2026	7113
SPEAR	EK30V4	S&B Probe	2/10/2025	Annual	2/10/2026	7427
SPEAR	EK30V4	S&B Probe	3/6/2025	Annual	3/6/2026	7638
SPEAR	EK30V4	S&B Probe	9/6/2024	Annual	9/6/2025	1817
SPEAR	EK30V4	S&B Probe	3/6/2025	Annual	3/6/2026	7421
SPEAR	EK30V4	S&B Probe	12/5/2024	Annual	12/5/2025	7490
SPEAR	EK30V4	S&B Probe	5/14/2025	Annual	5/14/2026	7561
SPEAR	EK30V4	S&B Probe	3/7/2025	Annual	3/7/2026	7365
SPEAR	EK30V4	S&B Probe	9/12/2024	Annual	9/12/2025	7762
SPEAR	EK30V4	S&B Probe	9/6/2024	Annual	9/6/2025	5948
SPEAR	EK30V4	S&B Probe	9/6/2024	Annual	9/6/2025	7639
SPEAR	EK30V4	S&B Probe	10/15/2024	Annual	10/15/2025	7146
SPEAR	EK30V4	ElumWV3 Probe	10/6/2024	Annual	10/6/2025	9407

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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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