



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:

9/25/2025 – 1/26/2025

Test Report Issue Date:

1/29/2026

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2509100082-01.BCG-R2

FCC ID:

BCGA3462

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Models:

A3462, A3464

Model	Frequency	Power	SAR	Weight	Height	Width	Depth	Volume	Surface Area	Volume Weight	Surface Area Weight
A3462	700-960 MHz	2.0 W	1.6 W/kg	150 g	150 mm	75 mm	15 mm	168.75 cm ³	1125 cm ²	0.0015 kg/cm ³	0.0015 kg/cm ²
A3464	700-960 MHz	2.0 W	1.6 W/kg	150 g	150 mm	75 mm	15 mm	168.75 cm ³	1125 cm ²	0.0015 kg/cm ³	0.0015 kg/cm ²

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



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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Revision Summary

Revision	Description	Issue Date	Revised By:
-	Initial Release	12/18/2025	WKR0000010082
R1	Addressed Applicant's Comments	01/12/2026	WKR0000010082
R2	Addressed Applicant's Comments	01/29/2026	WKR0000010082

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2501.01 - 2685.0 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
NB UNII-5	Data	6106 - 6420 MHz
WPT	N/A	13.56 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

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.

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.

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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.

1.2.3 SAR_design_target Calculations

Table 1-1
Antenna 1a

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
LTE Band 48	0.94	1.2 W/kg	1.6 W/kg
LTE Band 48 ULCA	0.94		
NR Band n48	0.92		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.85		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.85		
NR Band n77 (PC3) - [Ch. 650000]	1.00		
NR Band n77 (PC2) - [Ch. 650000]	1.00		
NR Band n77 (PC3) - [Ch. 662000]	0.88		
NR Band n77 (PC2) - [Ch. 662000]	0.88		

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**Table 1-2
Antenna 1b**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	1.01	1.2 W/kg	1.6 W/kg
UMTS 1900	0.99		
LTE Band 4	1.01		
LTE Band 66	1.01		
LTE Band 2	0.99		
LTE Band 25	0.99		
LTE Band 30	1.02		
LTE Band 7	0.96		
LTE Band 7 ULCA	0.96		
LTE Band 41 (PC3)	1.00		
LTE Band 41 (PC3) ULCA	1.00		
LTE Band 41 (PC2)	1.00		
LTE Band 41 (PC2) ULCA	1.00		
NR Band n70	0.88		
NR Band n66	0.91		
NR Band n2	0.83		
NR Band n25	0.83		
NR Band n30	0.80		
NR Band n7	0.81		
NR Band n41 (PC3)	0.89		
NR Band n41 (PC2)	0.89		

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**Table 1-3
Antenna 2**

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	1.04		
LTE Band 71	1.02		
LTE Band 12	0.97		
LTE Band 17	0.97		
LTE Band 13	1.02		
LTE Band 14	1.04		
LTE Band 26	0.97		
LTE Band 5	1.02		
LTE Band 5 ULCA	1.02		
LTE Band 4	1.02		
LTE Band 66	1.02		
LTE Band 2	1.04		
LTE Band 25	1.04		
LTE Band 30	1.05		
LTE Band 7	1.05		
LTE Band 7 ULCA	1.05		
LTE Band 48	1.00		
LTE Band 48 ULCA	1.00		
LTE Band 41 (PC3)	1.02		
LTE Band 41 (PC3) ULCA	1.02		
LTE Band 41 (PC2)	1.02		
LTE Band 41 (PC2) ULCA	1.02		
NR Band n71	1.00		
NR Band n12	1.03		
NR Band n14	0.93		
NR Band n26	0.89		
NR Band n5	1.00		
NR Band n70	0.98		
NR Band n66	0.95		
NR Band n2	1.00		
NR Band n25	1.00		
NR Band n30	0.88		
NR Band n7	0.97		
NR Band n48	0.94		
NR Band n41 (PC3)	1.02		
NR Band n41 (PC2)	1.02		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.98		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.98		
NR Band n77 (PC3) - [Ch. 650000]	0.94		
NR Band n77 (PC2) - [Ch. 650000]	0.94		
NR Band n77 (PC3) - [Ch. 662000]	0.95		
NR Band n77 (PC2) - [Ch. 662000]	0.95		

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**Table 1-4
Antenna 3a**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
LTE Band 48	0.99	1.2 W/kg	1.6 W/kg
LTE Band 48 ULCA	0.99		
NR Band n48	0.98		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.95		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.95		
NR Band n77 (PC3) - [Ch. 650000]	1.02		
NR Band n77 (PC2) - [Ch. 650000]	1.02		
NR Band n77 (PC3) - [Ch. 662000]	0.92		
NR Band n77 (PC2) - [Ch. 662000]	0.92		

**Table 1-5
Antenna 3b**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	0.95	1.2 W/kg	1.6 W/kg
UMTS 1900	0.91		
LTE Band 4	0.95		
LTE Band 66	0.95		
LTE Band 2	0.91		
LTE Band 25	0.91		
LTE Band 30	1.03		
LTE Band 7	0.97		
LTE Band 7 ULCA	0.96		
LTE Band 41 (PC3)	0.97		
LTE Band 41 (PC3) ULCA	0.97		
LTE Band 41 (PC2)	0.97		
LTE Band 41 (PC2) ULCA	0.97		
NR Band n70	1.00		
NR Band n66	1.02		
NR Band n2	0.91		
NR Band n25	0.91		
NR Band n30	0.90		
NR Band n7	0.99		
NR Band n41 (PC3)	1.02		
NR Band n41 (PC2)	1.02		

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**Table 1-6
Antenna 4**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.04	1.2 W/kg	1.6 W/kg
UMTS 1750	1.01		
UMTS 1900	1.02		
LTE Band 71	1.02		
LTE Band 12	1.08		
LTE Band 17	1.08		
LTE Band 13	1.04		
LTE Band 14	1.07		
LTE Band 26	1.01		
LTE Band 5	1.04		
LTE Band 5 ULCA	1.04		
LTE Band 4	1.01		
LTE Band 66	1.01		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	1.06		
LTE Band 7	1.04		
LTE Band 7 ULCA	1.04		
LTE Band 48	0.98		
LTE Band 48 ULCA	0.98		
LTE Band 41 (PC3)	0.98		
LTE Band 41 (PC3) ULCA	0.98		
LTE Band 41 (PC2)	0.98		
LTE Band 41 (PC2) ULCA	0.98		
NR Band n71	1.00		
NR Band n12	1.01		
NR Band n14	0.98		
NR Band n26	1.05		
NR Band n5	1.07		
NR Band n70	1.08		
NR Band n66	0.98		
NR Band n2	0.96		
NR Band n25	0.96		
NR Band n30	0.95		
NR Band n7	0.97		
NR Band n48	0.89		
NR Band n41 (PC3)	1.03		
NR Band n41 (PC2)	1.03		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.94		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.94		
NR Band n77 (PC3) - [Ch. 650000]	0.87		
NR Band n77 (PC2) - [Ch. 650000]	0.87		
NR Band n77 (PC3) - [Ch. 662000]	0.95		
NR Band n77 (PC2) - [Ch. 662000]	0.95		

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Exposure Scenario:	Ant 1a	Ant 1a Maximum Tune-up Output Power*	Ant 1b	Ant 1b Maximum Tune-up Output Power*	Ant 2	Ant 2 Maximum Tune- up Output Power*	Ant 3a	Ant 3a Maximum Tune-up Output Power*	Ant 3b	Ant 3b Maximum Tune-up Output Power*	Ant 4	Ant 4 Maximum Tune- up Output Power*
Averaging Volume:	1g		1g		1g		1g		1g		1g	
Test Distance:	5 mm		5 mm		5 mm		5 mm		5 mm		5 mm	
OBS:	1, Body		1, Body		1, Body		1, Body		1, Body		1, Body	
Technology/Band	P _{limit} (Inclusive of Total Device Uncertainty)	P _{max} (Max Allowed Power)	P _{limit} (Inclusive of Total Device Uncertainty)	P _{max} (Max Allowed Power)	P _{limit} (Inclusive of Total Device Uncertainty)	P _{max} (Max Allowed Power)	P _{limit} (Inclusive of Total Device Uncertainty)	P _{max} (Max Allowed Power)	P _{limit} (Inclusive of Total Device Uncertainty)	P _{max} (Max Allowed Power)	P _{limit} (Inclusive of Total Device Uncertainty)	P _{max} (Max Allowed Power)
UMTS 850	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
UMTS 1750	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
UMTS 1900	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
LTE Band 71	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.50	25.70
LTE Band 12	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.20	25.70
LTE Band 17	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.20	25.70
LTE Band 13	N/A	N/A	N/A	N/A	25.10	25.20	N/A	N/A	N/A	N/A	25.30	25.70
LTE Band 14	N/A	N/A	N/A	N/A	25.10	25.20	N/A	N/A	N/A	N/A	25.30	25.70
LTE Band 26	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
LTE Band 5	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
LTE Band 5 ULCA	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
LTE Band 4	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
LTE Band 66	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
LTE Band 2	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.30
LTE Band 25	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
LTE Band 30	N/A	N/A	20.50	24.20	19.70	23.10	N/A	N/A	18.20	23.60	20.20	21.70
LTE Band 7	N/A	N/A	20.30	24.20	18.70	24.70	N/A	N/A	19.30	25.20	19.80	25.70
LTE Band 7 ULCA	N/A	N/A	20.30	24.20	18.70	24.70	N/A	N/A	19.30	25.20	19.80	25.70
LTE Band 41 (PC3)	N/A	N/A	19.3	23.7	18.7	23.7	N/A	N/A	19.5	23.7	19.2	23.7
LTE Band 41 (PC3) ULCA	N/A	N/A	19.3	23.7	19.7	23.7	N/A	N/A	19.5	23.7	19.2	23.7
LTE Band 41 (PC2)	N/A	N/A	19.3	25.1	19.7	25.1	N/A	N/A	19.5	24.6	19.2	25.1
LTE Band 41 (PC2) ULCA	N/A	N/A	19.3	24.6	19.7	25.1	N/A	N/A	19.5	24.1	19.2	25.1
LTE Band 48	21.0	21.5	N/A	N/A	17.2	17.2	19.1	19.1	N/A	N/A	19.0	19.0
LTE Band 48 ULCA	21.0	21.5	N/A	N/A	17.2	17.2	19.1	19.1	N/A	N/A	19.0	19.0
NR Band n71	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.5	25.7
NR Band n12	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.2	25.7
NR Band n14	N/A	N/A	N/A	N/A	25.10	25.20	N/A	N/A	N/A	N/A	25.30	25.70
NR Band n26	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
NR Band n5	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
NR Band n70	N/A	N/A	20.20	25.70	16.50	25.70	N/A	N/A	19.30	25.70	16.90	25.30
NR Band n66	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
NR Band n2	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
NR Band n25	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
NR Band n30	N/A	N/A	20.50	24.20	19.70	23.10	N/A	N/A	18.20	23.60	20.20	21.70
NR Band n7	N/A	N/A	20.30	24.20	18.70	24.70	N/A	N/A	19.30	25.20	19.80	25.70
NR Band n41 (PC3)	N/A	N/A	19.30	25.70	19.70	25.70	N/A	N/A	19.50	25.70	19.20	25.70
NR Band n41 (PC2)	N/A	N/A	19.30	28.70	19.70	28.70	N/A	N/A	19.50	28.20	19.20	28.70
NR Band n48	21.00	23.50	N/A	N/A	17.20	19.20	19.10	21.10	N/A	N/A	19.00	21.00
NR Band n77 DoD (PC3) - [Ch. 633334]	21.00	26.00	N/A	N/A	18.70	26.00	18.20	26.00	N/A	N/A	19.70	26.00
NR Band n77 DoD (PC2) - [Ch. 633334]	21.00	26.50	N/A	N/A	18.70	26.00	18.20	27.60	N/A	N/A	19.70	27.50
NR Band n77 (PC3) - [Ch. 650000]	21.00	26.00	N/A	N/A	18.60	26.00	19.30	26.00	N/A	N/A	19.30	26.00
NR Band n77 (PC2) - [Ch. 650000]	21.00	26.50	N/A	N/A	18.60	26.00	19.30	27.60	N/A	N/A	19.30	27.50
NR Band n77 (PC3) - [Ch. 662000]	19.60	26.00	N/A	N/A	18.50	26.00	18.10	26.00	N/A	N/A	19.90	26.00
NR Band n77 (PC2) - [Ch. 662000]	19.60	26.50	N/A	N/A	18.50	26.00	18.10	27.60	N/A	N/A	19.90	27.50

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

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

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1.3 Nominal and Maximum Output Power Specifications

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

1.3.1 WWAN Output Power

Table 1-7
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)					
			Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA			24.80			24.50
	Nominal	Rel 99			24.10			23.90
	Max allowed power	3GPP HSDPA			24.80			24.50
	Nominal	Rel 5			24.10			23.90
	Max allowed power	3GPP HSUPA			24.80			24.50
	Nominal	Rel 6			24.10			23.90
	Max allowed power	3GPP DC-			24.80			24.50
	Nominal	HSDPA Rel 8			24.10			23.90

Table 1-8
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)					
			Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA		19.60	16.80		19.30	15.80
	Nominal	Rel 99		18.90	16.10		18.30	15.10
	Max allowed power	3GPP HSDPA		19.60	16.80		19.30	15.80
	Nominal	Rel 5		18.90	16.10		18.30	15.10
	Max allowed power	3GPP HSUPA		19.60	16.80		19.30	15.80
	Nominal	Rel 6		18.90	16.10		18.30	15.10
	Max allowed power	3GPP DC-		19.60	16.80		19.30	15.80
	Nominal	HSDPA Rel 8		18.90	16.10		18.30	15.10

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Table 1-9
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)						
			Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4	
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA		18.70	17.30		19.10	16.50	
	Nominal	Rel 99		17.90	16.70		17.90	15.80	
	Max allowed power	3GPP HSDPA		18.70	17.30		19.10	16.50	
	Nominal	Rel 5		17.90	16.70		17.90	15.80	
	Max allowed power	3GPP HSUPA		18.70	17.30		19.10	16.50	
	Nominal	Rel 6		17.90	16.70		17.90	15.80	
	Max allowed power	3GPP DC-		18.70	17.30		19.10	16.50	
	Nominal	HSDPA Rel 8		17.90	16.70		17.90	15.80	

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Table 1-10
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4	
LTE FDD Band 71	Max allowed power			25.00			25.50	
	Nominal			24.30			24.80	
LTE FDD Band 12	Max allowed power			25.00			25.20	
	Nominal			24.10			24.80	
LTE FDD Band 17	Max allowed power			25.00			25.20	
	Nominal			24.10			24.80	
LTE FDD Band 13	Max allowed power			25.10			25.30	
	Nominal			24.40			24.70	
LTE FDD Band 14	Max allowed power			25.10			25.30	
	Nominal			24.50			24.80	
LTE FDD Band 26	Max allowed power			24.80			24.50	
	Nominal			23.90			23.80	
LTE FDD Band 5	Max allowed power			24.80			24.50	
	Nominal			24.10			23.90	
LTE FDD Band 5 Intra-band ULCA	Max allowed power			24.80			24.50	
	Nominal			24.10			23.90	
LTE FDD Band 4	Max allowed power		19.60	16.80		19.30	15.80	
	Nominal		18.90	16.10		18.30	15.10	
LTE FDD Band 66	Max allowed power		19.60	16.80		19.30	15.80	
	Nominal		18.90	16.10		18.30	15.10	
LTE FDD Band 2	Max allowed power		18.70	17.30		19.10	16.50	
	Nominal		17.90	16.70		17.90	15.80	
LTE FDD Band 25	Max allowed power		18.70	17.30		19.10	16.50	
	Nominal		17.90	16.70		17.90	15.80	
LTE FDD Band 30	Max allowed power		20.50	19.70		18.20	20.20	
	Nominal		19.80	19.20		17.60	19.70	
LTE FDD Band 7	Max allowed power		20.30	18.70		19.30	19.80	
	Nominal		19.30	18.10		18.40	19.20	
LTE FDD Band 7 Intra-band ULCA	Max allowed power		20.30	18.70		19.30	19.80	
	Nominal		19.30	18.10		18.40	19.20	
LTE TDD Band 41 (PC3)	Max allowed power		21.30	21.70		21.50	21.20	
	Nominal		20.50	21.00		20.60	20.40	
LTE TDD Band 41 (PC3) ULCA	Max allowed power		21.30	21.70		21.50	21.20	
	Nominal		20.50	21.00		20.60	20.40	
LTE TDD Band 41 (PC2)	Max allowed power		22.90	23.30		23.10	22.80	
	Nominal		22.10	22.60		22.20	22.00	
LTE TDD Band 41 (PC2) ULCA	Max allowed power		22.90	23.30		23.10	22.80	
	Nominal		22.10	22.60		22.20	22.00	
LTE TDD Band 48	Max allowed power	23.00		19.20	21.10		21.00	
	Nominal	22.00		18.40	20.30		20.10	
LTE TDD Band 48 Intra-band ULCA	Max allowed power	23.00		19.20	21.10		21.00	
	Nominal	22.00		18.40	20.30		20.10	

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Table 1-11
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4	
NR FDD Band n71	Max allowed power			25.00			25.50	
	Nominal			24.20			24.70	
NR FDD Band n12	Max allowed power			25.00			25.20	
	Nominal			24.30			24.50	
NR FDD Band n14	Max allowed power			25.10			25.30	
	Nominal			24.00			24.40	
NR FDD Band n26	Max allowed power			24.80			24.50	
	Nominal			23.60			24.00	
NR FDD Band n5	Max allowed power			24.80			24.50	
	Nominal			24.00			24.00	
NR FDD Band n70	Max allowed power		20.20	18.50		19.30	16.90	
	Nominal		18.90	17.60		18.50	16.50	
NR FDD Band n66	Max allowed power		19.60	16.80		19.30	15.80	
	Nominal		18.40	15.80		18.60	14.90	
NR FDD Band n2	Max allowed power		18.70	17.30		19.10	16.50	
	Nominal		17.10	16.50		17.90	15.60	
NR FDD Band n25	Max allowed power		18.70	17.30		19.10	16.50	
	Nominal		17.10	16.50		17.90	15.60	
NR FDD Band n30	Max allowed power		20.50	19.70		18.20	20.20	
	Nominal		18.70	18.40		17.00	19.20	
NR FDD Band n7	Max allowed power		20.30	18.70		19.30	19.80	
	Nominal		18.60	17.80		18.50	18.90	
NR TDD Band n41 (PC3)	Max allowed power		19.30	19.70		19.50	19.20	
	Nominal		18.10	19.00		18.80	18.60	
NR TDD Band n41 (PC2)	Max allowed power		19.30	19.70		19.50	19.20	
	Nominal		18.10	19.00		18.80	18.60	
NR TDD Band n48	Max allowed power	21.00		17.20	19.10		19.00	
	Nominal	19.90		16.10	18.20		17.70	
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	Max allowed power	21.00		18.70	18.20		19.70	
	Nominal	19.50		17.80	17.20		18.70	
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	Max allowed power	21.00		18.70	18.20		19.70	
	Nominal	19.50		17.80	17.20		18.70	
NR TDD Band n77 (PC3) - [Ch. 650000]	Max allowed power	21.00		18.60	19.30		19.30	
	Nominal	20.20		17.60	18.60		18.00	
NR TDD Band n77 (PC2) - [Ch. 650000]	Max allowed power	21.00		18.60	19.30		19.30	
	Nominal	20.20		17.60	18.60		18.00	
NR TDD Band n77 (PC3) - [Ch. 662000]	Max allowed power	19.60		18.50	18.10		19.90	
	Nominal	18.30		17.50	17.00		18.90	
NR TDD Band n77 (PC2) - [Ch. 662000]	Max allowed power	19.60		18.50	18.10		19.90	
	Nominal	18.30		17.50	17.00		18.90	

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1.3.2

Maximum WLAN Time-Averaged Output Power

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	19.50	18.50	15.30	14.30	15.30	14.30	15.30	14.30
	2	19.50	18.50	19.50	18.50	19.50	18.50	18.50	17.50
	3	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	4	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	5	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	6	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	7	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	8	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	9	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	10	19.50	18.50	19.30	18.30	19.30	18.30	18.00	17.00
	11	19.50	18.50	16.00	15.00	16.00	15.00	15.50	14.50
	12	17.80	16.80	15.00	14.00	15.00	14.00	14.50	13.50
	13	17.00	16.00	6.80	5.80	6.80	5.80	5.50	4.50
Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	2	18.80	17.80	18.30	17.30	18.80	17.80	18.30	17.30
	3	20.00	19.00	19.80	18.80	20.00	19.00	19.80	18.80
	4	21.00	20.00	20.50	19.50	21.00	20.00	20.50	19.50
	5	21.00	20.00	20.80	19.80	21.00	20.00	20.80	19.80
	6	21.00	20.00	20.80	19.80	21.00	20.00	20.80	19.80
	7	21.00	20.00	21.00	20.00	21.00	20.00	21.00	20.00
	8	20.50	19.50	19.80	18.80	20.50	19.50	19.80	18.80
	9	19.50	18.50	19.00	18.00	19.50	18.50	19.00	18.00
	10	18.50	17.50	17.80	16.80	18.50	17.50	17.80	16.80
	11	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	12	15.00	14.00	14.50	13.50	15.00	14.00	14.50	13.50
	13	6.80	5.80	5.50	4.50	6.80	5.80	5.50	4.50

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a							
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.75	19.75	15.30	14.30	15.30	14.30	15.30	14.30
	2	20.75	19.75	19.30	18.30	19.30	18.30	18.50	17.50
	3	20.75	19.75	20.50	19.50	20.50	19.50	20.00	19.00
	4	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	5	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	6	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	7	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	8	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	9	20.75	19.75	20.30	19.30	20.30	19.30	20.00	19.00
	10	20.75	19.75	18.80	17.80	18.80	17.80	18.50	17.50
	11	20.75	19.75	16.50	15.50	16.50	15.50	16.50	15.50
	12	17.80	16.80	15.50	14.50	15.50	14.50	15.00	14.00
	13	16.30	15.30	7.00	6.00	7.00	6.00	5.50	4.50
Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a							
		MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	2	18.80	17.80	18.30	17.30	18.80	17.80	18.30	17.30
	3	20.00	19.00	19.80	18.80	20.00	19.00	19.80	18.80
	4	21.00	20.00	20.50	19.50	21.00	20.00	20.50	19.50
	5	21.00	20.00	20.80	19.80	21.00	20.00	20.80	19.80
	6	21.00	20.00	20.80	19.80	21.00	20.00	20.80	19.80
	7	21.00	20.00	21.00	20.00	21.00	20.00	21.00	20.00
	8	20.50	19.50	19.80	18.80	20.50	19.50	19.80	18.80
	9	19.50	18.50	19.00	18.00	19.50	18.50	19.00	18.00
	10	18.50	17.50	17.80	16.80	18.50	17.50	17.80	16.80
	11	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	12	15.00	14.00	14.50	13.50	15.00	14.00	14.50	13.50
	13	6.80	5.80	5.50	4.50	6.80	5.80	5.50	4.50

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 51																							
		SISO		SISO		SISO		SISO		SISO		SISO		MIMO CDD		MIMO CDD		MIMO CDD		MIMO CDD		MIMO CDD		MIMO CDD	
		a (Maximum)	a (Normal)	a (a (Maximum)	a (a (Normal)	as (a (Maximum)	as (a (Normal)	as (a (Maximum)	as (a (Normal)	a (a (Maximum)	a (a (Normal)	a (a (Maximum)	a (a (Normal)	as (a (Maximum)	as (a (Normal)	as (a (Maximum)	as (a (Normal)	a (a (Maximum)	a (a (Normal)	a (a (Maximum)	a (a (Normal)	a (a (Maximum)	a (a (Normal)	a (a (Maximum)	a (a (Normal)
5 GHz WRT 30 MHz Bandwidth	36	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	40	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	44	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	48	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	52	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	56	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	60	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	64	18.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	140	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	144	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	148	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	152	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
5 GHz WRT 40 MHz Bandwidth	112	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	116	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	120	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	124	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	128	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	132	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	136	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	140	17.00	16.00	17.00	16.00	16.00	16.00	17.00	16.00	17.00	16.00	15.50	15.50	17.00	16.00	15.50	15.50	17.00	16.00	15.50	15.50	17.00	16.00	15.50	15.50
	144	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	148	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	152	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	156	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
5 GHz WRT 60 MHz Bandwidth	36	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	40	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	44	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	48	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	52	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	56	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	60	20.00	19.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	64	18.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	140	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	144	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	148	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	152	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
5 GHz WRT 80 MHz Bandwidth	112	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	116	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	120	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	124	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	128	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	132	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	136	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	140	17.00	16.00	17.00	16.00	16.00	16.00	17.00	16.00	17.00	16.00	15.50	15.50	17.00	16.00	15.50	15.50	17.00	16.00	15.50	15.50	17.00	16.00	15.50	15.50
	144	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	148	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	152	18.50	17.50	18.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	156	18.50	17.50	18.50	17.50	17.																			

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a															
		SISO a (Maximum)	SISO b (Normal)	SISO c/a (Maximum)	SISO c/a (Normal)	SISO ax SU (Maximum)	SISO ax SU (Normal)	SISO c/a (Maximum)	SISO c/a (Normal)	MIMO CSD c/a (Maximum)	MIMO CSD c/a (Normal)	MIMO CSD ax SU (Maximum)	MIMO CSD ax SU (Normal)	MIMO CSD c/a (Maximum)	MIMO CSD c/a (Normal)	MIMO CSD ax SU (Maximum)	MIMO CSD ax SU (Normal)
5 GHz WPI 40 MHz Bandwidth	36	17.00	16.00	17.00	17.00	16.00	17.00	16.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
	40	17.00	16.00	17.00	17.00	16.00	17.00	16.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
	44	17.00	16.00	17.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	16.00
	48	17.00	16.00	17.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	16.00
	52	17.00	16.00	17.00	17.00	16.00	17.00	16.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
	56	17.00	16.00	17.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	16.00
	60	17.00	16.00	17.00	17.00	16.00	17.00	16.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
	64	17.00	16.00	17.00	17.00	16.00	17.00	16.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00	17.00	16.00
	100	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	104	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	108	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	112	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	116	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	120	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	124	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	128	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
5 GHz WPI 80 MHz Bandwidth	132	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	136	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	140	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	144	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	15.50	14.50	15.50	14.50
	148	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	14.75
	152	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	14.75
	156	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	14.75
	160	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	14.75
	38	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	42	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	46	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	50	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	54	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	58	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	62	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	5 GHz WPI 160 MHz Bandwidth	66	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00
70		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
74		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
78		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
82		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
86		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
90		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
94		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
98		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
102		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
106		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
110		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
114		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
118		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
122		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
126		16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
5 GHz WPI 320 MHz Bandwidth	130	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	134	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	138	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	142	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	146	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	150	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	154	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	158	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	162	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	166	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	170	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	174	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	178	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	182	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	186	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00
	190	16.00	15.00	16.00	16.00	15.00	16.00	15.50	15.50	16.00	15.50	16.00	15.00	16.00	15.50	16.00	15.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T							
		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	4.80	3.80	4.90	3.90	0.10	-0.90	3.00	2.00
	5	5.70	4.70	5.80	4.80	1.00	0.00	3.90	2.90
	9-29	5.60	4.60	5.50	4.50	0.70	-0.30	3.60	2.60
	33-61	4.90	3.90	5.20	4.20	0.80	-0.20	3.60	2.60
	65-85	4.80	3.80	5.10	4.10	1.10	0.10	3.80	2.80
	89	5.00	4.00	5.00	4.00	1.00	0.00	3.70	2.70
	93	5.00	4.00	5.30	4.30	1.30	0.30	4.00	3.00
	97-113	5.00	4.00	5.00	4.00	0.60	-0.40	3.40	2.40
	117-181	4.80	3.80	5.10	4.10	0.80	-0.20	3.60	2.60
	185	4.20	3.20	4.30	3.30	0.30	-0.70	3.00	2.00
	189-225	4.00	3.00	4.00	3.00	0.40	-0.60	2.90	1.90
	229	4.20	3.20	4.50	3.50	0.90	-0.10	3.40	2.40
	233	3.60	2.60	3.50	2.50	-0.10	-1.10	2.40	1.40
6 GHz WiFi (40MHz BW) LP	3			7.70	6.70	2.90	1.90	5.80	4.80
	11			8.90	7.90	3.90	2.90	6.80	5.80
	19-27			8.90	7.90	4.00	3.00	6.90	5.90
	35-59			8.10	7.10	3.70	2.70	6.50	5.50
	67-75			8.10	7.10	4.10	3.10	6.80	5.80
	83			8.10	7.10	4.10	3.10	6.80	5.80
	91			8.10	7.10	4.10	3.10	6.80	5.80
	99-107			8.00	7.00	3.60	2.60	6.40	5.40
	115			8.20	7.20	3.80	2.80	6.60	5.60
	123-179			7.90	6.90	3.60	2.60	6.40	5.40
	187			7.20	6.20	3.20	2.20	5.90	4.90
	195-219			7.20	6.20	3.60	2.60	6.10	5.10
	227			7.40	6.40	3.80	2.80	6.30	5.30
6 GHz WiFi (80MHz BW) LP	7			10.90	9.90	6.10	5.10	9.00	8.00
	23			11.70	10.70	6.90	5.90	9.80	8.80
	39-55			11.20	10.20	6.70	5.70	9.50	8.50
	71			11.20	10.20	7.20	6.20	9.90	8.90
	87			11.10	10.10	6.90	5.90	9.60	8.60
	103			11.10	10.10	6.60	5.60	9.40	8.40
	119			11.00	10.00	6.40	5.40	9.20	8.20
	135-167			11.20	10.20	6.70	5.70	9.50	8.50
	183			10.30	9.30	6.20	5.20	8.90	7.90
	199			10.10	9.10	6.50	5.50	9.00	8.00
	215			10.30	9.30	6.60	5.60	9.10	8.10
6 GHz WiFi (160MHz BW) LP	15			13.25	12.25	9.00	8.00	11.90	10.90
	47			13.00	12.00	9.40	8.40	12.20	11.20
	79			12.75	11.75	9.80	8.80	12.50	11.50
	111			12.25	11.25	9.30	8.30	12.10	11.10
	143			12.00	11.00	9.10	8.10	11.90	10.90
	175			12.00	11.00	8.70	7.70	11.40	10.40
	207			11.50	10.50	9.30	8.30	11.50	10.50

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T							
		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	0.90	-0.10	1.20	0.20	-3.20	-4.20	-0.40	-1.40
	65-85	0.80	-0.20	1.10	0.10	-2.90	-3.90	-0.20	-1.20
	89	1.00	0.00	1.00	0.00	-3.00	-4.00	-0.30	-1.30
	93	1.00	0.00	1.30	0.30	-2.70	-3.70	0.00	-1.00
	97-113	1.00	0.00	1.00	0.00	-3.40	-4.40	-0.60	-1.60
	117-181	0.80	-0.20	1.10	0.10	-3.20	-4.20	-0.40	-1.40
	185	0.20	-0.80	0.30	-0.70	-3.70	-4.70	-1.00	-2.00
	189-225	0.00	-1.00	0.00	-1.00	-3.60	-4.60	-1.10	-2.10
	229	0.20	-0.80	0.50	-0.50	-3.10	-4.10	-0.60	-1.60
	233	-0.40	-1.40	-0.50	-1.50	-4.10	-5.10	-1.60	-2.60
	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			4.10	3.10	-0.30	-1.30	2.50	1.50
	67-75			4.10	3.10	0.10	-0.90	2.80	1.80
	83			4.10	3.10	0.10	-0.90	2.80	1.80
	91			4.10	3.10	0.10	-0.90	2.80	1.80
	99-107			4.00	3.00	-0.40	-1.40	2.40	1.40
	115			4.20	3.20	-0.20	-1.20	2.60	1.60
	123-179			3.90	2.90	-0.40	-1.40	2.40	1.40
	187			3.20	2.20	-0.80	-1.80	1.90	0.90
	195-219			3.20	2.20	-0.40	-1.40	2.10	1.10
	227			3.40	2.40	-0.20	-1.20	2.30	1.30
6 GHz WiFi (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			7.20	6.20	2.70	1.70	5.50	4.50
	71			7.20	6.20	3.20	2.20	5.90	4.90
	87			7.10	6.10	2.90	1.90	5.60	4.60
	103			7.10	6.10	2.60	1.60	5.40	4.40
	119			7.00	6.00	2.40	1.40	5.20	4.20
	135-167			7.20	6.20	2.70	1.70	5.50	4.50
	183			6.30	5.30	2.20	1.20	4.90	3.90
	199			6.10	5.10	2.50	1.50	5.00	4.00
	215			6.30	5.30	2.60	1.60	5.10	4.10
6 GHz WiFi (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			8.80	7.80	5.40	4.40	7.20	6.20
	79			8.80	7.80	5.80	4.80	7.50	6.50
	111			8.80	7.80	5.30	4.30	7.30	6.30
	143			8.80	7.80	5.10	4.10	7.30	6.30
	175			8.00	7.00	4.70	3.70	6.70	5.70
	207			8.00	7.00	5.00	4.00	6.90	5.90

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5T							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	5	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	9-29	13.25	12.25	13.25	12.25	13.25	12.25	13.25	12.25
	33-61	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00
	65-85	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	89	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	93	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	12.00	11.00	12.00	11.00	12.00	11.00	12.00	11.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			13.25	12.25	13.25	12.25	13.25	12.25
	11			13.25	12.25	13.25	12.25	13.25	12.25
	19-27			13.25	12.25	13.25	12.25	13.25	12.25
	35-59			13.00	12.00	13.00	12.00	13.00	12.00
	67-75			12.75	11.75	12.75	11.75	12.75	11.75
	83			12.75	11.75	12.75	11.75	12.75	11.75
	91			12.75	11.75	12.75	11.75	12.75	11.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			12.00	11.00	12.00	11.00	12.00	11.00
	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			13.25	12.25	13.25	12.25	13.25	12.25
	23			13.25	12.25	13.25	12.25	13.25	12.25
	39-55			13.00	12.00	13.00	12.00	13.00	12.00
	71			12.75	11.75	12.75	11.75	12.75	11.75
	87			12.75	11.75	12.75	11.75	12.75	11.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			12.00	11.00	12.00	11.00	12.00	11.00
	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			13.25	12.25	13.25	12.25	13.25	12.25
	47			13.00	12.00	13.00	12.00	13.00	12.00
	79			12.75	11.75	12.75	11.75	12.75	11.75
	111			NS	NS	NS	NS	NS	NS
	143			12.00	11.00	12.00	11.00	12.00	11.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3b							
		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	7.70	6.70	7.80	6.80	0.10	-0.90	3.00	2.00
	5	8.40	7.40	8.60	7.60	1.00	0.00	3.90	2.90
	9-29	8.30	7.30	8.50	7.50	0.70	-0.30	3.60	2.60
	33-61	8.60	7.60	8.90	7.90	0.80	-0.20	3.60	2.60
	65-85	9.70	8.70	10.00	9.00	1.10	0.10	3.80	2.80
	89	9.70	8.70	10.10	9.10	1.00	0.00	3.70	2.70
	93	10.00	9.00	10.10	9.10	1.30	0.30	4.00	3.00
	97-113	8.90	7.90	9.00	8.00	0.60	-0.40	3.40	2.40
	117-181	8.90	7.90	9.10	8.10	0.80	-0.20	3.60	2.60
	185	9.10	8.10	9.30	8.30	0.30	-0.70	3.00	2.00
	189-225	9.80	8.80	10.10	9.10	0.40	-0.60	2.90	1.90
	229	10.20	9.20	10.40	9.40	0.90	-0.10	3.40	2.40
	233	8.50	7.50	8.50	7.50	-0.10	-1.10	2.40	1.40
	3			10.60	9.60	2.90	1.90	5.80	4.80
6 GHz WiFi (40MHz BW) LP	11			11.40	10.40	3.90	2.90	6.80	5.80
	19-27			11.50	10.50	4.00	3.00	6.90	5.90
	35-59			11.90	10.90	3.70	2.70	6.50	5.50
	67-75			13.00	12.00	4.10	3.10	6.80	5.80
	83			12.90	11.90	4.10	3.10	6.80	5.80
	91			13.00	12.00	4.10	3.10	6.80	5.80
	99-107			12.10	11.10	3.60	2.60	6.40	5.40
	115			12.00	11.00	3.80	2.80	6.60	5.60
	123-179			12.00	11.00	3.60	2.60	6.40	5.40
	187			12.10	11.10	3.20	2.20	5.90	4.90
	195-219			13.00	12.00	3.60	2.60	6.10	5.10
	227			13.20	12.20	3.80	2.80	6.30	5.30
	7			12.50	11.50	6.10	5.10	9.00	8.00
	23			12.50	11.50	6.90	5.90	9.80	8.80
6 GHz WiFi (80MHz BW) LP	39-55			12.00	11.00	6.70	5.70	9.50	8.50
	71			14.25	13.25	7.20	6.20	9.90	8.90
	87			14.25	13.25	6.90	5.90	9.60	8.60
	103			14.80	13.80	6.60	5.60	9.40	8.40
	119			14.60	13.60	6.40	5.40	9.20	8.20
	135-167			14.75	13.75	6.70	5.70	9.50	8.50
	183			15.00	14.00	6.20	5.20	8.90	7.90
	199			13.25	12.25	6.50	5.50	9.00	8.00
	215			13.25	12.25	6.60	5.60	9.10	8.10
	15			12.50	11.50	9.00	8.00	11.90	10.90
6 GHz WiFi (160MHz BW) LP	47			12.00	11.00	9.40	8.40	12.00	11.00
	79			14.25	13.25	9.80	8.80	12.50	11.50
	111			15.25	14.25	9.30	8.30	12.10	11.10
	143			14.75	13.75	9.10	8.10	11.90	10.90
	175			15.50	14.50	8.70	7.70	11.40	10.40
	207			13.25	12.25	9.30	8.30	11.80	10.80

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 3b								
	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	4.60	3.60	4.90	3.90	-3.20	-4.20	-0.40	-1.40
	65-85	5.70	4.70	6.00	5.00	-2.90	-3.90	-0.20	-1.20
	89	5.70	4.70	6.10	5.10	-3.00	-4.00	-0.30	-1.30
	93	6.00	5.00	6.10	5.10	-2.70	-3.70	0.00	-1.00
	97-113	4.90	3.90	5.00	4.00	-3.40	-4.40	-0.60	-1.60
	117-181	4.90	3.90	5.10	4.10	-3.20	-4.20	-0.40	-1.40
	185	5.10	4.10	5.30	4.30	-3.70	-4.70	-1.00	-2.00
	189-225	5.80	4.80	6.10	5.10	-3.60	-4.60	-1.10	-2.10
	229	6.20	5.20	6.40	5.40	-3.10	-4.10	-0.60	-1.60
	233	5.30	4.30	5.40	4.40	-4.10	-5.10	-1.60	-2.60
	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			7.90	6.90	-0.30	-1.30	2.50	1.50
	67-75			9.00	8.00	0.10	-0.90	2.80	1.80
	83			8.90	7.90	0.10	-0.90	2.80	1.80
	91			9.00	8.00	0.10	-0.90	2.80	1.80
	99-107			8.10	7.10	-0.40	-1.40	2.40	1.40
	115			8.00	7.00	-0.20	-1.20	2.60	1.60
	123-179			8.00	7.00	-0.40	-1.40	2.40	1.40
	187			8.10	7.10	-0.80	-1.80	1.90	0.90
	195-219			9.00	8.00	-0.40	-1.40	2.10	1.10
	227			9.20	8.20	-0.20	-1.20	2.30	1.30
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.80	9.80	2.70	1.70	5.50	4.50
6 GHz WiFi (80MHz BW) VLP	71			12.00	11.00	3.20	2.20	5.90	4.90
	87			11.70	10.70	2.90	1.90	5.60	4.60
	103			10.80	9.80	2.60	1.60	5.40	4.40
	119			10.60	9.60	2.40	1.40	5.20	4.20
	135-167			11.00	10.00	2.70	1.70	5.50	4.50
	183			11.00	10.00	2.20	1.20	4.90	3.90
	199			12.00	11.00	2.50	1.50	5.00	4.00
	215			12.00	11.00	2.60	1.60	5.10	4.10
	15			NS	NS	NS	NS	NS	NS
	47			12.00	11.00	5.40	4.40	7.20	6.20
6 GHz WiFi (160MHz BW) VLP	79			13.60	12.60	5.80	4.80	7.50	6.50
	111			12.70	11.70	5.30	4.30	7.30	6.30
	143			12.80	11.80	5.10	4.10	7.30	6.30
	175			12.80	11.80	4.70	3.70	6.70	5.70
	207			13.25	12.25	5.00	4.00	6.90	5.90

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 3b								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	5	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	9-29	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	33-61	12.00	11.00	12.00	11.00	12.00	11.00	12.00	11.00
	65-85	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	89	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	93	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	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			12.50	11.50	12.50	11.50	12.50	11.50
	11			12.50	11.50	12.50	11.50	12.50	11.50
	19-27			12.50	11.50	12.50	11.50	12.50	11.50
	35-59			12.00	11.00	12.00	11.00	12.00	11.00
	67-75			14.25	13.25	14.25	13.25	14.25	13.25
	83			14.25	13.25	14.25	13.25	14.25	13.25
	91			14.25	13.25	14.25	13.25	14.25	13.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			14.75	13.75	14.75	13.75	14.75	13.75
	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			12.50	11.50	12.50	11.50	12.50	11.50
	23			12.50	11.50	12.50	11.50	12.50	11.50
	39-55			12.00	11.00	12.00	11.00	12.00	11.00
	71			14.25	13.25	14.25	13.25	14.25	13.25
	87			14.25	13.25	14.25	13.25	14.25	13.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			14.75	13.75	14.75	13.75	14.75	13.75
	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			12.50	11.50	12.50	11.50	12.50	11.50
	47			12.00	11.00	12.00	11.00	12.00	11.00
	79			14.25	13.25	14.25	13.25	14.25	13.25
	111			NS	NS	NS	NS	NS	NS
	143			14.75	13.75	14.75	13.75	14.75	13.75
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		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	7.70	6.70	7.80	6.80	0.10	-0.90	3.00	2.00
	5	8.40	7.40	8.60	7.60	1.00	0.00	3.90	2.90
	9-29	8.30	7.30	8.50	7.50	0.70	-0.30	3.60	2.60
	33-61	8.60	7.60	8.90	7.90	0.80	-0.20	3.60	2.60
	65-85	9.70	8.70	10.00	9.00	1.10	0.10	3.80	2.80
	89	9.70	8.70	10.10	9.10	1.00	0.00	3.70	2.70
	93	10.00	9.00	10.10	9.10	1.30	0.30	4.00	3.00
	97-113	8.90	7.90	9.00	8.00	0.60	-0.40	3.40	2.40
	117-181	8.90	7.90	9.10	8.10	0.80	-0.20	3.60	2.60
	185	9.10	8.10	9.30	8.30	0.30	-0.70	3.00	2.00
	189-225	9.80	8.80	10.10	9.10	0.40	-0.60	2.90	1.90
	229	10.20	9.20	10.40	9.40	0.90	-0.10	3.40	2.40
	233	8.50	7.50	8.50	7.50	-0.10	-1.10	2.40	1.40
6 GHz WiFi (40MHz BW) LP	3			10.25	9.25	2.90	1.90	5.80	4.80
	11			10.25	9.25	3.90	2.90	6.80	5.80
	19-27			10.25	9.25	4.00	3.00	6.90	5.90
	35-59			10.75	9.75	3.70	2.70	6.50	5.50
	67-75			12.50	11.50	4.10	3.10	6.80	5.80
	83			12.50	11.50	4.10	3.10	6.80	5.80
	91			12.50	11.50	4.10	3.10	6.80	5.80
	99-107			11.00	10.00	3.60	2.60	6.40	5.40
	115			11.00	10.00	3.80	2.80	6.60	5.60
	123-179			11.00	10.00	3.60	2.60	6.40	5.40
	187			11.50	10.50	3.20	2.20	5.90	4.90
	195-219			13.00	12.00	3.60	2.60	6.10	5.10
	227			13.20	12.20	3.80	2.80	6.30	5.30
6 GHz WiFi (80MHz BW) LP	7			10.25	9.25	6.10	5.10	9.00	8.00
	23			10.25	9.25	6.90	5.90	9.80	8.80
	39-55			10.75	9.75	6.70	5.70	9.50	8.50
	71			12.50	11.50	7.20	6.20	9.90	8.90
	87			12.50	11.50	6.90	5.90	9.60	8.60
	103			11.00	10.00	6.60	5.60	9.40	8.40
	119			11.00	10.00	6.40	5.40	9.20	8.20
	135-167			11.50	10.50	6.70	5.70	9.50	8.50
	183			11.50	10.50	6.20	5.20	8.90	7.90
	199			13.25	12.25	6.50	5.50	9.00	8.00
	215			13.25	12.25	6.60	5.60	9.10	8.10
6 GHz WiFi (160MHz BW) LP	15			10.25	9.25	9.00	8.00	10.25	9.25
	47			10.75	9.75	9.40	8.40	10.75	9.75
	79			12.50	11.50	9.80	8.80	12.50	11.50
	111			11.00	10.00	9.30	8.30	11.00	10.00
	143			11.50	10.50	9.10	8.10	11.50	10.50
	175			11.50	10.50	8.70	7.70	11.40	10.40
	207			13.25	12.25	9.30	8.30	11.80	10.80

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 1b								
	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	4.60	3.60	4.90	3.90	-3.20	-4.20	-0.40	-1.40
	65-85	5.70	4.70	6.00	5.00	-2.90	-3.90	-0.20	-1.20
	89	5.70	4.70	6.10	5.10	-3.00	-4.00	-0.30	-1.30
	93	6.00	5.00	6.10	5.10	-2.70	-3.70	0.00	-1.00
	97-113	4.90	3.90	5.00	4.00	-3.40	-4.40	-0.60	-1.60
	117-181	4.90	3.90	5.10	4.10	-3.20	-4.20	-0.40	-1.40
	185	5.10	4.10	5.30	4.30	-3.70	-4.70	-1.00	-2.00
	189-225	5.80	4.80	6.10	5.10	-3.60	-4.60	-1.10	-2.10
	229	6.20	5.20	6.40	5.40	-3.10	-4.10	-0.60	-1.60
	233	5.30	4.30	5.40	4.40	-4.10	-5.10	-1.60	-2.60
	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			7.90	6.90	-0.30	-1.30	2.50	1.50
	67-75			9.00	8.00	0.10	-0.90	2.80	1.80
	83			8.90	7.90	0.10	-0.90	2.80	1.80
	91			9.00	8.00	0.10	-0.90	2.80	1.80
	99-107			8.10	7.10	-0.40	-1.40	2.40	1.40
	115			8.00	7.00	-0.20	-1.20	2.60	1.60
	123-179			8.00	7.00	-0.40	-1.40	2.40	1.40
	187			8.10	7.10	-0.80	-1.80	1.90	0.90
	195-219			9.00	8.00	-0.40	-1.40	2.10	1.10
	227			9.20	8.20	-0.20	-1.20	2.30	1.30
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.75	9.75	2.70	1.70	5.50	4.50
6 GHz WiFi (80MHz BW) VLP	71			12.00	11.00	3.20	2.20	5.90	4.90
	87			11.70	10.70	2.90	1.90	5.60	4.60
	103			10.80	9.80	2.60	1.60	5.40	4.40
	119			10.60	9.60	2.40	1.40	5.20	4.20
	135-167			11.00	10.00	2.70	1.70	5.50	4.50
	183			11.00	10.00	2.20	1.20	4.90	3.90
	199			12.00	11.00	2.50	1.50	5.00	4.00
	215			12.00	11.00	2.60	1.60	5.10	4.10
	15			NS	NS	NS	NS	NS	NS
	47			10.75	9.75	5.40	4.40	7.20	6.20
6 GHz WiFi (160MHz BW) VLP	79			12.50	11.50	5.80	4.80	7.50	6.50
	111			11.00	10.00	5.30	4.30	7.30	6.30
	143			11.50	10.50	5.10	4.10	7.30	6.30
	175			11.50	10.50	4.70	3.70	6.70	5.70
	207			13.25	12.25	5.00	4.00	6.90	5.90

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		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	10.25	9.25	10.25	9.25	10.25	9.25	10.25	9.25
	5	10.25	9.25	10.25	9.25	10.25	9.25	10.25	9.25
	9-29	10.25	9.25	10.25	9.25	10.25	9.25	10.25	9.25
	33-61	10.75	9.75	10.75	9.75	10.75	9.75	10.75	9.75
	65-85	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	89	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	93	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			10.25	9.25	10.25	9.25	10.25	9.25
	11			10.25	9.25	10.25	9.25	10.25	9.25
	19-27			10.25	9.25	10.25	9.25	10.25	9.25
	35-59			10.75	9.75	10.75	9.75	10.75	9.75
	67-75			12.50	11.50	12.50	11.50	12.50	11.50
	83			12.50	11.50	12.50	11.50	12.50	11.50
	91			12.50	11.50	12.50	11.50	12.50	11.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			11.00	10.00	11.00	10.00	11.00	10.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			10.25	9.25	10.25	9.25	10.25	9.25
6 GHz WiFi (80MHz BW) SP	23			10.25	9.25	10.25	9.25	10.25	9.25
	39-55			10.75	9.75	10.75	9.75	10.75	9.75
	71			12.50	11.50	12.50	11.50	12.50	11.50
	87			12.50	11.50	12.50	11.50	12.50	11.50
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			11.50	10.50	11.50	10.50	11.50	10.50
	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			10.25	9.25	10.25	9.25	10.25	9.25
	47			10.75	9.75	10.75	9.75	10.75	9.75
	79			12.50	11.50	12.50	11.50	12.50	11.50
	111			NS	NS	NS	NS	NS	NS
	143			11.50	10.50	11.50	10.50	11.50	10.50
	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 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
BDR	Maximum	19.50	9.00	17.00	9.00
	Nominal	18.50	8.00	16.00	8.00
EDR	Maximum	16.50	6.00	13.50	6.00
	Nominal	15.50	5.00	12.50	5.00
LE Adv	Maximum	19.50	9.00	19.50	9.00
	Nominal	18.50	8.00	18.50	8.00
LE1M	Maximum	19.50	9.00	19.50	9.00
	Nominal	18.50	8.00	18.50	8.00
LE2M	Maximum	19.50	9.00	17.00	9.00
	Nominal	18.50	8.00	16.00	8.00
HDR4	Maximum	13.50	6.00	13.50	6.00
	Nominal	12.50	5.00	12.50	5.00
HDR8	Maximum	13.50	6.00	13.50	6.00
	Nominal	12.50	5.00	12.50	5.00
XHDR HDRPS 2	Maximum	13.50	6.00	13.50	6.00
	Nominal	12.50	5.00	12.50	5.00
XHDRP HDRPM 4/6/8	Maximum	13.50	6.00	13.50	6.00
	Nominal	12.50	5.00	12.50	5.00
XHDRPM HDRPM 12/16	Maximum	11.50	3.00	11.50	3.00
	Nominal	10.50	2.00	10.50	2.00
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	13.50	6.00	13.50	6.00
	Nominal	12.50	5.00	12.50	5.00
HDT4	Maximum	13.50	6.00	13.50	6.00
	Nominal	12.50	5.00	12.50	5.00
HDT 6/8	Maximum	11.50	3.00	11.50	3.00
	Nominal	10.50	2.00	10.50	2.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.50	9.00	9.50	9.00
	Nominal	11.50	8.00	8.50	8.00

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Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
BDR	Maximum	20.00	8.00	17.00	8.00
	Nominal	19.00	7.00	16.00	7.00
EDR	Maximum	16.00	6.00	13.50	6.00
	Nominal	15.00	5.00	12.50	5.00
LE Adv	Maximum	20.00	8.00	19.50	8.00
	Nominal	19.00	7.00	18.50	7.00
LE1M	Maximum	20.00	8.00	19.50	8.00
	Nominal	19.00	7.00	18.50	7.00
LE2M	Maximum	20.00	8.00	17.00	8.00
	Nominal	19.00	7.00	16.00	7.00
HDR4	Maximum	13.00	6.00	13.00	6.00
	Nominal	12.00	5.00	12.00	5.00
HDR8	Maximum	13.00	6.00	13.00	6.00
	Nominal	12.00	5.00	12.00	5.00
XHDR HDRPS 2	Maximum	13.00	6.00	13.00	6.00
	Nominal	12.00	5.00	12.00	5.00
XHDRP HDRPM 4/6/8	Maximum	13.00	6.00	13.00	6.00
	Nominal	12.00	5.00	12.00	5.00
XHDRPM HDRPM 12/16	Maximum	12.00	3.00	12.00	3.00
	Nominal	11.00	2.00	11.00	2.00
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	6.00	13.00	6.00
	Nominal	12.00	5.00	12.00	5.00
HDT4	Maximum	13.00	6.00	13.00	6.00
	Nominal	12.00	5.00	12.00	5.00
HDT 6/8	Maximum	12.00	3.00	12.00	3.00
	Nominal	11.00	2.00	11.00	2.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.50	8.00	9.50	8.00
	Nominal	11.50	7.00	8.50	7.00

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1.3.4**802.15.4 Maximum Output Power**

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	19.25	9.00
	Nominal	18.25	8.00

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	20.00	9.00
	Nominal	19.00	8.00

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1.3.5

NB UNII Maximum Output Power

NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WFST	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WFST	Modulated Average (ePA) TXBF (dBm) Antenna WFST	Modulated Average (iPA) TXBF (dBm) Antenna WFST
BDR	Maximum	10.00	6.00	7.00	6.00
	Nominal	9.00	5.00	6.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE1M	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE2M	Maximum	11.00	6.00	8.00	6.00
	Nominal	10.00	5.00	7.00	5.00
HDR4	Maximum	12.25	2.00	9.25	2.00
	Nominal	11.25	1.00	8.25	1.00
HDR8	Maximum	14.00	2.00	11.50	2.00
	Nominal	13.00	1.00	10.50	1.00
XHDP HDRPS 2	Maximum	12.25	2.00	9.25	2.00
	Nominal	11.25	1.00	8.25	1.00
XHDP HDRPM 4/6/8	Maximum	14.00	2.00	11.75	2.00
	Nominal	13.00	1.00	10.75	1.00
XHDP HDRPM 12/16	Maximum	11.00	-1.00	11.00	-1.00
	Nominal	10.00	-2.00	10.00	-2.00
XHDP HDRPL 8/12/16	Maximum	14.00	2.00	14.00	2.00
	Nominal	13.00	1.00	13.00	1.00
HDRPL 24/32	Maximum	11.00	-1.00	11.00	-1.00
	Nominal	10.00	-2.00	10.00	-2.00
HDT 2/3	Maximum	12.50	2.00	9.50	2.00
	Nominal	11.50	1.00	8.50	1.00
HDT4	Maximum	12.50	2.00	9.50	2.00
	Nominal	11.50	1.00	8.50	1.00
HDT 6/8	Maximum	11.00	-1.00	9.25	-1.00
	Nominal	10.00	-2.00	8.25	-2.00
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 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
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	0.00	9.25	0.00
	Nominal	11.25	-1.00	8.25	-1.00
HDR8	Maximum	12.50	0.00	11.50	0.00
	Nominal	11.50	-1.00	10.50	-1.00
XHDP HDRPS 2	Maximum	12.25	0.00	9.25	0.00
	Nominal	11.25	-1.00	8.25	-1.00
XHDP HDRPM 4/6/8	Maximum	12.50	0.00	11.75	0.00
	Nominal	11.50	-1.00	10.75	-1.00
XHDP HDRPM 12/16	Maximum	9.50	-3.00	9.50	-3.00
	Nominal	8.50	-4.00	8.50	-4.00
XHDP HDRPL 8/12/16	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDRPL 24/32	Maximum	9.50	-3.00	9.50	-3.00
	Nominal	8.50	-4.00	8.50	-4.00
HDT 2/3	Maximum	12.50	0.00	9.50	0.00
	Nominal	11.50	-1.00	8.50	-1.00
HDT4	Maximum	12.50	0.00	9.50	0.00
	Nominal	11.50	-1.00	8.50	-1.00
HDT 6/8	Maximum	9.50	-3.00	9.25	-3.00
	Nominal	8.50	-4.00	8.25	-4.00
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 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (ePA) TXBF (dBm) Antenna 1b	Modulated Average (iPA) TXBF (dBm) Antenna 1b
BDR	Maximum	10.00	3.00	7.00	3.00
	Nominal	9.00	2.00	6.00	2.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	3.00	7.25	3.00
	Nominal	9.25	2.00	6.25	2.00
LE1M	Maximum	10.25	3.00	7.25	3.00
	Nominal	9.25	2.00	6.25	2.00
LE2M	Maximum	11.00	3.00	8.00	3.00
	Nominal	10.00	2.00	7.00	2.00
HDR4	Maximum	10.50	-1.50	9.25	-1.50
	Nominal	9.50	-2.50	8.25	-2.50
HDR8	Maximum	10.50	-1.50	10.50	-1.50
	Nominal	9.50	-2.50	9.50	-2.50
XHDR HDRPS 2	Maximum	10.50	-1.50	9.25	-1.50
	Nominal	9.50	-2.50	8.25	-2.50
XHDRP HDRPM 4/6/8	Maximum	10.50	-1.50	10.50	-1.50
	Nominal	9.50	-2.50	9.50	-2.50
XHDRPM HDRPM 12/16	Maximum	7.50	-4.50	7.50	-4.50
	Nominal	6.50	-5.50	6.50	-5.50
XHDRPL HDRPL 8/12/16	Maximum	10.50	-1.50	10.50	-1.50
	Nominal	9.50	-2.50	9.50	-2.50
HDRPL 24/32	Maximum	7.50	-4.50	7.50	-4.50
	Nominal	6.50	-5.50	6.50	-5.50
HDT 2/3	Maximum	10.50	-1.50	9.50	-1.50
	Nominal	9.50	-2.50	8.50	-2.50
HDT4	Maximum	10.50	-1.50	9.50	-1.50
	Nominal	9.50	-2.50	8.50	-2.50
HDT 6/8	Maximum	7.50	-4.50	7.50	-4.50
	Nominal	6.50	-5.50	6.50	-5.50
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 WF5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5T	Modulated Average (ePA) TXBF (dBm) Antenna WF5T	Modulated Average (iPA) TXBF (dBm) Antenna WF5T
BDR	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
LE1M	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
LE2M	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
HDR4	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
HDR8	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
XHDR HDRPS 2	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
XHDRP HDRPM 4/6/8	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
XHDRPM HDRPM 12/16	Maximum	11.50	-1.50	11.50	-1.50
	Nominal	10.50	-2.50	10.50	-2.50
XHDRPL HDRPL 8/12/16	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
HDRPL 24/32	Maximum	11.50	-1.50	11.50	-1.50
	Nominal	10.50	-2.50	10.50	-2.50
HDT 2/3	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
HDT4	Maximum	14.50	1.50	14.50	1.50
	Nominal	13.50	0.50	13.50	0.50
HDT 6/8	Maximum	11.50	-1.50	11.50	-1.50
	Nominal	10.50	-2.50	10.50	-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 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
BDR	Maximum	15.50	4.00	15.50	4.00
	Nominal	14.50	3.00	14.50	3.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	15.50	4.00	15.50	4.00
	Nominal	14.50	3.00	14.50	3.00
LE1M	Maximum	15.50	4.00	15.50	4.00
	Nominal	14.50	3.00	14.50	3.00
LE2M	Maximum	15.50	4.00	15.50	4.00
	Nominal	14.50	3.00	14.50	3.00
HDR4	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDR8	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
XHDR HDRPS 2	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
XHDRP HDRPM 4/6/8	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
XHDRPM HDRPM 12/16	Maximum	9.50	-3.00	9.50	-3.00
	Nominal	8.50	-4.00	8.50	-4.00
XHDRPL HDRPL 8/12/16	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDRPL 24/32	Maximum	9.50	-3.00	9.50	-3.00
	Nominal	8.50	-4.00	8.50	-4.00
HDT 2/3	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDT4	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDT 6/8	Maximum	9.50	-3.00	9.50	-3.00
	Nominal	8.50	-4.00	8.50	-4.00
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 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (ePA) TXBF (dBm) Antenna 1b	Modulated Average (iPA) TXBF (dBm) Antenna 1b
BDR	Maximum	16.50	3.00	16.50	3.00
	Nominal	15.50	2.00	15.50	2.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	16.50	3.00	16.50	3.00
	Nominal	15.50	2.00	15.50	2.00
LE1M	Maximum	16.50	3.00	16.50	3.00
	Nominal	15.50	2.00	15.50	2.00
LE2M	Maximum	16.50	3.00	16.50	3.00
	Nominal	15.50	2.00	15.50	2.00
HDR4	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
HDR8	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
XHDR HDRPS 2	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
XHDRP HDRPM 4/6/8	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
XHDRPM HDRPM 12/16	Maximum	8.50	-4.00	8.50	-4.00
	Nominal	7.50	-5.00	7.50	-5.00
XHDRPL HDRPL 8/12/16	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
HDRPL 24/32	Maximum	8.50	-4.00	8.50	-4.00
	Nominal	7.50	-5.00	7.50	-5.00
HDT 2/3	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
HDT4	Maximum	11.50	-1.00	11.50	-1.00
	Nominal	10.50	-2.00	10.50	-2.00
HDT 6/8	Maximum	8.50	-4.00	8.50	-4.00
	Nominal	7.50	-5.00	7.50	-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 5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 5T	Modulated Average (ePA) TXBF (dBm) Antenna 5T	Modulated Average (iPA) TXBF (dBm) Antenna 5T
BDR	Maximum	-10.25	-10.25	-15.00	-15.00
	Nominal	-11.25	-11.25	-16.00	-16.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-10.00	-10.00	-14.50	-14.50
	Nominal	-11.00	-11.00	-15.50	-15.50
LE1M	Maximum	-10.00	-10.00	-14.50	-14.50
	Nominal	-11.00	-11.00	-15.50	-15.50
LE2M	Maximum	-9.25	-9.25	-14.00	-14.00
	Nominal	-10.25	-10.25	-15.00	-15.00
HDR4	Maximum	-8.00	-8.00	-12.50	-12.50
	Nominal	-9.00	-9.00	-13.50	-13.50
HDR8	Maximum	-6.25	-6.25	-11.00	-11.00
	Nominal	-7.25	-7.25	-12.00	-12.00
XHDR HDRPS 2	Maximum	-8.00	-8.00	-12.75	-12.75
	Nominal	-9.00	-9.00	-13.75	-13.75
XHDRP HDRPM 4/6/8	Maximum	-5.25	-5.25	-10.00	-10.00
	Nominal	-6.25	-6.25	-11.00	-11.00
XHDRPM HDRPM 12/16	Maximum	-5.25	-5.25	-10.00	-10.00
	Nominal	-6.25	-6.25	-11.00	-11.00
XHDRPL HDRPL 8/12/16	Maximum	-2.25	-2.25	-7.00	-7.00
	Nominal	-3.25	-3.25	-8.00	-8.00
HDRPL 24/32	Maximum	-2.50	-2.50	-7.00	-7.00
	Nominal	-3.50	-3.50	-8.00	-8.00
HDT 2/3	Maximum	-7.75	-7.75	-12.25	-12.25
	Nominal	-8.75	-8.75	-13.25	-13.25
HDT4	Maximum	-7.75	-7.75	-12.25	-12.25
	Nominal	-8.75	-8.75	-13.25	-13.25
HDT 6/8	Maximum	-8.00	-8.00	-12.50	-12.50
	Nominal	-9.00	-9.00	-13.50	-13.50
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 3b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3b	Modulated Average (ePA) TXBF (dBm) Antenna 3b	Modulated Average (iPA) TXBF (dBm) Antenna 3b
BDR	Maximum	-7.00	-7.00	-15.00	-15.00
	Nominal	-8.00	-8.00	-16.00	-16.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-6.75	-6.75	-14.50	-14.50
	Nominal	-7.75	-7.75	-15.50	-15.50
LE1M	Maximum	-6.75	-6.75	-14.50	-14.50
	Nominal	-7.75	-7.75	-15.50	-15.50
LE2M	Maximum	-6.00	-6.00	-14.00	-14.00
	Nominal	-7.00	-7.00	-15.00	-15.00
HDR4	Maximum	-4.75	-4.75	-12.50	-12.50
	Nominal	-5.75	-5.75	-13.50	-13.50
HDR8	Maximum	-3.00	-3.00	-11.00	-11.00
	Nominal	-4.00	-4.00	-12.00	-12.00
XHDR HDRPS 2	Maximum	-4.75	-4.75	-12.75	-12.75
	Nominal	-5.75	-5.75	-13.75	-13.75
XHDRP HDRPM 4/6/8	Maximum	-2.00	-2.00	-10.00	-10.00
	Nominal	-3.00	-3.00	-11.00	-11.00
XHDRPM HDRPM 12/16	Maximum	-2.00	-3.00	-10.00	-10.00
	Nominal	-3.00	-4.00	-11.00	-11.00
XHDRPL HDRPL 8/12/16	Maximum	1.00	0.00	-7.00	-7.00
	Nominal	0.00	-1.00	-8.00	-8.00
HDRPL 24/32	Maximum	0.75	-3.00	-7.00	-7.00
	Nominal	-0.25	-4.00	-8.00	-8.00
HDT 2/3	Maximum	-4.50	-4.50	-12.25	-12.25
	Nominal	-5.50	-5.50	-13.25	-13.25
HDT4	Maximum	-4.50	-4.50	-12.25	-12.25
	Nominal	-5.50	-5.50	-13.25	-13.25
HDT 6/8	Maximum	-4.75	-4.75	-12.50	-12.50
	Nominal	-5.75	-5.75	-13.50	-13.50
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 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (ePA) TXBF (dBm) Antenna 1b	Modulated Average (iPA) TXBF (dBm) Antenna 1b
BDR	Maximum	-6.50	-6.50	-14.50	-14.50
	Nominal	-7.50	-7.50	-15.50	-15.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-6.25	-6.25	-14.50	-14.50
	Nominal	-7.25	-7.25	-15.50	-15.50
LE1M	Maximum	-6.25	-6.25	-14.50	-14.50
	Nominal	-7.25	-7.25	-15.50	-15.50
LE2M	Maximum	-5.50	-5.50	-13.50	-13.50
	Nominal	-6.50	-6.50	-14.50	-14.50
HDR4	Maximum	-4.00	-4.00	-12.25	-12.25
	Nominal	-5.00	-5.00	-13.25	-13.25
HDR8	Maximum	-2.50	-2.50	-10.50	-10.50
	Nominal	-3.50	-3.50	-11.50	-11.50
XHDR HDRPS 2	Maximum	-4.25	-4.25	-12.50	-12.50
	Nominal	-5.25	-5.25	-13.50	-13.50
XHDRP HDRPM 4/6/8	Maximum	-1.50	-1.50	-9.50	-9.50
	Nominal	-2.50	-2.50	-10.50	-10.50
XHDRPM HDRPM 12/16	Maximum	-1.50	-4.00	-9.50	-9.50
	Nominal	-2.50	-5.00	-10.50	-10.50
XHDRPL HDRPL 8/12/16	Maximum	1.50	-1.00	-6.50	-6.50
	Nominal	0.50	-2.00	-7.50	-7.50
HDRPL 24/32	Maximum	1.50	-4.00	-6.75	-6.75
	Nominal	0.50	-5.00	-7.75	-7.75
HDT 2/3	Maximum	-3.75	-3.75	-12.00	-12.00
	Nominal	-4.75	-4.75	-13.00	-13.00
HDT4	Maximum	-3.75	-3.75	-12.00	-12.00
	Nominal	-4.75	-4.75	-13.00	-13.00
HDT 6/8	Maximum	-4.00	-4.00	-12.25	-12.25
	Nominal	-5.00	-5.00	-13.25	-13.25
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 1-12
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)	Yes
8	Cellular + NB U-NII (TXBF)	Yes
9	Cellular + 2.4 GHz Bluetooth + NB U-NII	Yes
10	Cellular + 2.4 GHz Bluetooth + NB U-NII (TXBF)	Yes
11	Cellular + 2.4 GHz Bluetooth (TXBF) + NB U-NII	Yes
12	Cellular + 2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF)	Yes
13	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
14	Cellular + 2.4 GHz Wi-Fi + NB U-NII	Yes
15	Cellular + 2.4 GHz Wi-Fi + NB U-NII (TXBF)	Yes
16	Cellular + 2.4 GHz Wi-Fi MIMO + NB U-NII	Yes
17	Cellular + 2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF)	Yes
18	Cellular + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth	Yes
19	Cellular + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF)	Yes
20	Cellular + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth	Yes
21	Cellular + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF)	Yes
22	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth*	Yes
23	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth*	Yes
24	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII*	Yes
25	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF)*	Yes
26	Cellular + 2.4 GHz Wi-Fi + 802.15.4**	Yes
27	Cellular + 5/6 GHz Wi-Fi + 802.15.4	Yes
28	Cellular + 5/6 GHz Wi-Fi MIMO + 802.15.4	Yes
29	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4**	Yes
30	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4**	Yes
31	Cellular + 802.15.4 + NB U-NII	Yes
32	Cellular + 802.15.4 + NB U-NII (TXBF)	Yes
33	Cellular + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII**	Yes
34	Cellular + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF)**	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)	Yes
42	NB U-NII (TXBF)	Yes
43	2.4 GHz Bluetooth + NB U-NII	Yes
44	2.4 GHz Bluetooth + NB U-NII (TXBF)	Yes
45	2.4 GHz Bluetooth (TXBF) + NB U-NII	Yes
46	2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF)	Yes
47	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
48	2.4 GHz Wi-Fi + NB U-NII	Yes
49	2.4 GHz Wi-Fi + NB U-NII (TXBF)	Yes
50	2.4 GHz Wi-Fi MIMO + NB U-NII	Yes
51	2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF)	Yes
52	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth	Yes
53	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF)	Yes
54	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth	Yes
55	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF)	Yes
56	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth*	Yes
57	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth*	Yes
58	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII*	Yes
59	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF)*	Yes
60	2.4 GHz Wi-Fi + 802.15.4**	Yes
61	5/6 GHz Wi-Fi + 802.15.4	Yes
62	5/6 GHz Wi-Fi MIMO + 802.15.4	Yes
63	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4**	Yes
64	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4**	Yes
65	802.15.4 + NB U-NII	Yes
66	802.15.4 + NB U-NII (TXBF)	Yes
67	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII**	Yes
68	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF)**	Yes

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Table 1-13
Simultaneous Transmission Scenarios of Inter-Band ULCA

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

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

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Table 1-14
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)	Yes
8	LTE Inter-Band ULCA + NB U-NII (TXBF)	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + NB U-NII	Yes
10	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + NB U-NII (TXBF)	Yes
11	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + NB U-NII	Yes
12	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF)	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	Yes
15	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + NB U-NII (TXBF)	Yes
16	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + NB U-NII	Yes
17	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF)	Yes
18	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth	Yes
19	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF)	Yes
20	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth	Yes
21	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF)	Yes
22	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth*	Yes
23	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth*	Yes
24	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII*	Yes
25	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF)*	Yes
26	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 802.15.4**	Yes
27	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + 802.15.4	Yes
28	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + 802.15.4	Yes
29	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4**	Yes
30	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4**	Yes
31	LTE Inter-Band ULCA + 802.15.4 + NB U-NII	Yes
32	LTE Inter-Band ULCA + 802.15.4 + NB U-NII (TXBF)	Yes
33	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII**	Yes
34	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF)**	Yes

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

- There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/Wi-Fi antennas.
- 2.4 GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas. Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
- Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
- 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
- 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.
- LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
- This device supports VoWIFI.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

This device supports IEEE 802.11ac with the following features:

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

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 3 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

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

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

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(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.

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 12).

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.

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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.

1.9 Bibliography

Report Type	Report Serial Number
BCGA3462 FCC TAS Connectivity Validation Report	1C2509100082-02.BCG
BCGA3462 FCC TAS Cellular Validation Report	1C2509100082-03.BCG

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2 LTE AND NR INFORMATION

LTE Information				
Form Factor	Tablet			
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)			
	LTE Band 12 (699.7 - 715.3 MHz)			
	LTE Band 17 (706.5 - 713.5 MHz)			
	LTE Band 13 (779.5 - 784.5 MHz)			
	LTE Band 14 (790.5 - 795.5 MHz)			
	LTE Band 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 - 2587.5 MHz)			
	LTE Band 48 (3552.5 - 3697.5 MHz)			
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 17: 5 MHz, 10 MHz			
	LTE Band 13: 5 MHz, 10 MHz			
	LTE Band 14: 5 MHz, 10 MHz			
Channel Bandwidths	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
	665.5 (133147)	680.5 (133297)	695.5 (133447)	
LTE Band 71: 5 MHz	668 (133172)	680.5 (133297)	693 (133422)	
LTE Band 71: 10 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 15 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 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19967)	1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26947)	1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26955)	1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26965)	1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26990)	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 (27365)	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			
LAA 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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NR Information				
Form Factor	Tablet			
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz) NR Band n12 (701.5 - 713.5 MHz) NR Band n14 (756.5 - 765.5 MHz) NR Band n28 (Cell) (816.5 - 846.5 MHz) NR Band n5 (Cell) (825.5 - 846.5 MHz) NR Band n77 (1087.5 - 1107.5 MHz) NR Band n66 (AWS) (1712.5 - 1777.5 MHz) NR Band n25 (PCS) (1852.5 - 1912.5 MHz) NR Band n2 (PCS) (1852.5 - 1907.5 MHz) NR Band n30 (2307.5 - 2312.5 MHz) NR Band n7 (2602.5 - 2607.5 MHz) NR Band n4 (2501.01 - 2585 MHz) NR Band n66 (AWS) (3698.0 - 3698.98 MHz) NR Band n77 DoD (3455.01 - 3544.98 MHz) NR Band n77 C (3705.0 - 3975.0 MHz) NR Band n71 (5 MHz, 10 MHz, 15 MHz, 20 MHz) NR Band n12 (5 MHz, 10 MHz, 15 MHz) NR Band n14 (5 MHz, 10 MHz) NR Band n28 (Cell) (5 MHz, 10 MHz, 15 MHz, 20 MHz) NR Band n5 (Cell) (5 MHz, 10 MHz, 15 MHz, 20 MHz) NR Band n70 (5 MHz, 10 MHz) NR Band n25 (AWS) (5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz) NR Band n25 (PCS) (5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz) NR Band n2 (PCS) (5 MHz, 10 MHz, 15 MHz, 20 MHz) NR Band n66 (AWS) (5 MHz, 10 MHz, 15 MHz, 20 MHz) NR Band n7 (5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz) NR Band n4 (10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz) NR Band n77 DoD (10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz) NR Band n77 C (10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz)			
Channel Bandwidths	NR Band n71 (5 MHz) NR Band n71 (10 MHz) NR Band n71 (15 MHz) NR Band n71 (20 MHz) NR Band n12 (5 MHz) NR Band n12 (10 MHz) NR Band n12 (15 MHz) NR Band n12 (20 MHz) NR Band n14 (5 MHz) NR Band n14 (10 MHz) NR Band n28 (Cell) (5 MHz) NR Band n28 (Cell) (10 MHz) NR Band n28 (Cell) (15 MHz) NR Band n28 (Cell) (20 MHz) NR Band n5 (Cell) (5 MHz) NR Band n5 (Cell) (10 MHz) NR Band n5 (Cell) (15 MHz) NR Band n5 (Cell) (20 MHz) NR Band n70 (5 MHz) NR Band n70 (10 MHz) NR Band n70 (15 MHz) NR Band n66 (AWS) (5 MHz) NR Band n66 (AWS) (10 MHz) NR Band n66 (AWS) (15 MHz) NR Band n66 (AWS) (20 MHz) NR Band n66 (AWS) (25 MHz) NR Band n66 (AWS) (30 MHz) NR Band n66 (AWS) (35 MHz) NR Band n66 (AWS) (40 MHz) NR Band n25 (PCS) (5 MHz) NR Band n25 (PCS) (10 MHz) NR Band n25 (PCS) (15 MHz) NR Band n25 (PCS) (20 MHz) NR Band n25 (PCS) (30 MHz) NR Band n25 (PCS) (35 MHz) NR Band n25 (PCS) (40 MHz) NR Band n2 (PCS) (5 MHz) NR Band n2 (PCS) (10 MHz) NR Band n2 (PCS) (15 MHz) NR Band n2 (PCS) (20 MHz) NR Band n30 (5 MHz) NR Band n30 (10 MHz) NR Band n7 (5 MHz) NR Band n7 (10 MHz) NR Band n7 (15 MHz) NR Band n7 (20 MHz) NR Band n7 (25 MHz) NR Band n7 (30 MHz) NR Band n7 (40 MHz) NR Band n7 (50 MHz) NR Band n7 (60 MHz) NR Band n7 (70 MHz) NR Band n7 (80 MHz) NR Band n7 (90 MHz) NR Band n7 (100 MHz) NR Band n4 (10 MHz) NR Band n4 (15 MHz) NR Band n4 (20 MHz) NR Band n4 (30 MHz) NR Band n4 (40 MHz) NR Band n4 (50 MHz) NR Band n4 (60 MHz) NR Band n4 (70 MHz) NR Band n4 (80 MHz) NR Band n4 (90 MHz) NR Band n4 (100 MHz) NR Band n77 DoD (10 MHz) NR Band n77 DoD (15 MHz) NR Band n77 DoD (20 MHz) NR Band n77 DoD (25 MHz) NR Band n77 DoD (30 MHz) NR Band n77 DoD (40 MHz) NR Band n77 DoD (50 MHz) NR Band n77 DoD (60 MHz) NR Band n77 DoD (70 MHz) NR Band n77 DoD (80 MHz) NR Band n77 DoD (90 MHz) NR Band n77 DoD (100 MHz) NR Band n77 C (10 MHz) NR Band n77 C (15 MHz) NR Band n77 C (20 MHz) NR Band n77 C (25 MHz) NR Band n77 C (30 MHz) NR Band n77 C (40 MHz) NR Band n77 C (50 MHz) NR Band n77 C (60 MHz) NR Band n77 C (70 MHz) NR Band n77 C (80 MHz) NR Band n77 C (90 MHz) NR Band n77 C (100 MHz)			
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High
NR Band n71 (5 MHz)	665.5 (13010)	665.5 (13010)	665.5 (13010)	665.5 (13010)
NR Band n71 (10 MHz)	668 (13060)	668.5 (13060)	669 (13060)	669.5 (13060)
NR Band n71 (15 MHz)	670.5 (13410)	680.5 (13810)	690.5 (13910)	695.5 (13910)
NR Band n71 (20 MHz)	673 (13860)	680.5 (13810)	688 (13760)	695.5 (13910)
NR Band n12 (5 MHz)	701.5 (14010)	707.5 (14160)	713.5 (14210)	717.5 (14260)
NR Band n12 (10 MHz)	704 (14060)	707.5 (14160)	711 (14210)	717.5 (14260)
NR Band n12 (15 MHz)	706.5 (14160)	717.5 (14160)	728.5 (14160)	735.5 (14160)
NR Band n12 (20 MHz)	703.5 (13810)	703.5 (13810)	705.5 (13810)	705.5 (13810)
NR Band n14 (5 MHz)	N/A	753 (15860)	N/A	N/A
NR Band n28 (Cell) (5 MHz)	816.5 (16330)	831.5 (16830)	846.5 (16830)	846.5 (16830)
NR Band n28 (Cell) (10 MHz)	819 (16380)	831.5 (16830)	844 (16880)	844 (16880)
NR Band n28 (Cell) (15 MHz)	821.5 (16430)	831.5 (16830)	841.5 (16830)	841.5 (16830)
NR Band n28 (Cell) (20 MHz)	N/A	831.5 (16830)	N/A	N/A
NR Band n5 (Cell) (5 MHz)	826.5 (16830)	836.5 (16830)	846.5 (16830)	846.5 (16830)
NR Band n5 (Cell) (10 MHz)	829 (16880)	836.5 (16830)	844 (16880)	844 (16880)
NR Band n5 (Cell) (15 MHz)	831.5 (16830)	836.5 (16830)	841.5 (16830)	841.5 (16830)
NR Band n5 (Cell) (20 MHz)	834 (16880)	836.5 (16830)	839 (16830)	839 (16830)
NR Band n70 (5 MHz)	1087.5 (31950)	1702.5 (34050)	1707.5 (34150)	1707.5 (34150)
NR Band n70 (10 MHz)	1700 (34000)	1702.5 (34050)	1705 (34100)	1705 (34100)
NR Band n70 (15 MHz)	N/A	1702.5 (34050)	N/A	N/A
NR Band n66 (AWS) (5 MHz)	1712.5 (34250)	1745 (34800)	1777.5 (35050)	1777.5 (35050)
NR Band n66 (AWS) (10 MHz)	1715 (34300)	1745 (34800)	1775 (35000)	1775 (35000)
NR Band n66 (AWS) (15 MHz)	1717.5 (34350)	1745 (34800)	1772.5 (35050)	1772.5 (35050)
NR Band n66 (AWS) (20 MHz)	1720 (34400)	1745 (34800)	1770 (35000)	1770 (35000)
NR Band n66 (AWS) (25 MHz)	1722.5 (34450)	1745 (34800)	1767.5 (35050)	1767.5 (35050)
NR Band n66 (AWS) (30 MHz)	1725 (34500)	1745 (34800)	1765 (35000)	1765 (35000)
NR Band n66 (AWS) (35 MHz)	1727.5 (34550)	1745 (34800)	1762.5 (35050)	1762.5 (35050)
NR Band n66 (AWS) (40 MHz)	1730 (34600)	1745 (34800)	1760 (35000)	1760 (35000)
NR Band n25 (PCS) (5 MHz)	1852.5 (37050)	1862.5 (37050)	1912.5 (38250)	1912.5 (38250)
NR Band n25 (PCS) (10 MHz)	1855 (37100)	1862.5 (37050)	1910 (38200)	1910 (38200)
NR Band n25 (PCS) (15 MHz)	1857.5 (37150)	1862.5 (37050)	1907.5 (38150)	1907.5 (38150)
NR Band n25 (PCS) (20 MHz)	1860 (37200)	1862.5 (37050)	1905 (38100)	1905 (38100)
NR Band n25 (PCS) (30 MHz)	1865 (37300)	1862.5 (37050)	1900 (38000)	1900 (38000)
NR Band n25 (PCS) (35 MHz)	1867.5 (37350)	1862.5 (37050)	1897.5 (37950)	1897.5 (37950)
NR Band n25 (PCS) (40 MHz)	1870 (37400)	1862.5 (37050)	1895 (37900)	1895 (37900)
NR Band n2 (PCS) (5 MHz)	1862.5 (37050)	1860 (37000)	1907.5 (38150)	1907.5 (38150)
NR Band n2 (PCS) (10 MHz)	1865 (37100)	1860 (37000)	1905 (38100)	1905 (38100)
NR Band n2 (PCS) (15 MHz)	1867.5 (37150)	1860 (37000)	1902.5 (38050)	1902.5 (38050)
NR Band n2 (PCS) (20 MHz)	1860 (37200)	1860 (37000)	1900 (38000)	1900 (38000)
NR Band n30 (5 MHz)	2307.5 (48150)	2310 (48200)	2312.5 (48250)	2312.5 (48250)
NR Band n30 (10 MHz)	N/A	2310 (48200)	N/A	N/A
NR Band n7 (5 MHz)	2602.5 (66050)	2635 (66700)	2667.5 (67350)	2667.5 (67350)
NR Band n7 (10 MHz)	2605 (66100)	2635 (66700)	2665 (67300)	2665 (67300)
NR Band n7 (15 MHz)	2607.5 (66150)	2635 (66700)	2662.5 (67250)	2662.5 (67250)
NR Band n7 (20 MHz)	2610 (66200)	2635 (66700)	2660 (67200)	2660 (67200)
NR Band n7 (25 MHz)	2612.5 (66250)	2635 (66700)	2657.5 (67150)	2657.5 (67150)
NR Band n7 (30 MHz)	2615 (66300)	2635 (66700)	2655 (67100)	2655 (67100)
NR Band n7 (35 MHz)	2617.5 (66350)	2635 (66700)	2652.5 (67050)	2652.5 (67050)
NR Band n7 (40 MHz)	2620 (66400)	2635 (66700)	2650 (67000)	2650 (67000)
NR Band n41 (5 MHz)	2501.01 (63010)	2547 (63660)	2582 (64310)	2585 (64360)
NR Band n41 (10 MHz)	2503.5 (63060)	2548.26 (63660)	2582.99 (64310)	2582.99 (64310)
NR Band n41 (15 MHz)	2506.02 (63110)	2549.49 (63660)	2583.49 (64310)	2583.49 (64310)
NR Band n41 (20 MHz)	2511 (63210)	2552.01 (63710)	2588.01 (64310)	2588.01 (64310)
NR Band n41 (25 MHz)	2516.01 (63310)	2557.34 (63760)	N/A	2593.01 (64310)
NR Band n41 (30 MHz)	2521.02 (63410)	2562.99 (63810)	2598.01 (64310)	2598.01 (64310)
NR Band n41 (35 MHz)	2526.03 (63510)	2568.64 (63860)	2603.01 (64310)	2603.01 (64310)
NR Band n41 (40 MHz)	2531.04 (63610)	N/A	2608.01 (64310)	2608.01 (64310)
NR Band n41 (45 MHz)	2536.05 (63710)	N/A	2613.01 (64310)	2613.01 (64310)
NR Band n41 (50 MHz)	2541.06 (63810)	N/A	2618.01 (64310)	2618.01 (64310)
NR Band n41 (55 MHz)	2546.07 (63910)	N/A	2623.01 (64310)	2623.01 (64310)
NR Band n41 (60 MHz)	2551.08 (64010)	N/A	2628.01 (64310)	2628.01 (64310)
NR Band n41 (65 MHz)	2556.09 (64110)	N/A	2633.01 (64310)	2633.01 (64310)
NR Band n41 (70 MHz)	2561.10 (64210)	N/A	2638.01 (64310)	2638.01 (64310)
NR Band n41 (75 MHz)	2566.11 (64310)	N/A	2643.01 (64310)	2643.01 (64310)
NR Band n41 (80 MHz)	2571.12 (64410)	N/A	2648.01 (64310)	2648.01 (64310)
NR Band n41 (85 MHz)	2576.13 (64510)	N/A	2653.01 (64310)	2653.01 (64310)
NR Band n41 (90 MHz)	2581.14 (64610)	N/A	2658.01 (64310)	2658.01 (64310)
NR Band n41 (95 MHz)	2586.15 (64710)	N/A	2663.01 (64310)	2663.01 (64310)
NR Band n41 (100 MHz)	2591.16 (64810)	N/A	2668.01 (64310)	2668.01 (64310)
NR Band n48 (5 MHz)	3557.52 (83716)	3602.49 (84016)	3647.46 (84316)	3692.43 (84616)
NR Band n48 (10 MHz)	3560.01 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n48 (15 MHz)	3562.52 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n48 (20 MHz)	3565.03 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n48 (25 MHz)	3567.54 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n48 (30 MHz)	3570.05 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n48 (35 MHz)	3572.56 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n48 (40 MHz)	3575.07 (83766)	3603.34 (84066)	3648.68 (84366)	3693.68 (84666)
NR Band n77 DoD (10 MHz)	3455.01 (83034)	N/A	3500.01 (83334)	3544.98 (83634)
NR Band n77 DoD (15 MHz)	3457.5 (83034)	N/A	3500.01 (83334)	3547.48 (83634)
NR Band n77 DoD (20 MHz)	3460.02 (83034)	N/A	3500.01 (83334)	3550.02 (83634)
NR Band n77 DoD (25 MHz)	3462.53 (83034)	N/A	3500.01 (83334)	3552.53 (83634)
NR Band n77 DoD (30 MHz)	3465.04 (83034)	N/A	3500.01 (83334)	3555.04 (83634)
NR Band n77 DoD (35 MHz)	3467.55 (83034)	N/A	3500.01 (83334)	3557.55 (83634)
NR Band n77 DoD (40 MHz)	3470.06 (83034)	N/A	3500.01 (83334)	3560.06 (83634)
NR Band n77 DoD (45 MHz)	3472.57 (83034)	N/A	3500.01 (83334)	3562.57 (83634)
NR Band n77 DoD (50 MHz)	3475.08 (83034)	N/A	3500.01 (83334)	3565.08 (83634)
NR Band n77 DoD (55 MHz)	3477.59 (83034)	N/A	3500.01 (83334)	3567.59 (83634)
NR Band n77 DoD (60 MHz)	3480.1 (83034)	N/A	3500.01 (83334)	3570.1 (83634)
NR Band n77 DoD (65 MHz)	3482.61 (83034)	N/A	3500.01 (83334)	3572.61 (83634)
NR Band n77 DoD (70 MHz)	3485.12 (83034)	N/A	3500.01 (83334)	3575.12 (83634)
NR Band n77 DoD (75 MHz)	3487.63 (83034)	N/A	3500.01 (83334)	3577.63 (83634)
NR Band n77 DoD (80 MHz)	3490.14 (83034)	N/A	3500.01 (83334)	3580.14 (83634)
NR Band n77 DoD (85 MHz)	3492.65 (83034)	N/A	3500.01 (83334)	3582.65 (83634)
NR Band n77 DoD (90 MHz)	3495.16 (83034)	N/A	3500.01 (83334)	3585.16 (83634)
NR Band n77 DoD (95 MHz)	3497.67 (83034)	N/A	3500.01 (83334)	3587.67 (83634)
NR Band n77 DoD (100 MHz)	3500.18 (83034)	N/A	3500.01 (83334)	3590.18 (83634)
NR Band n77 C (10 MHz)	3705 (64700)	3769 (65000)	3813 (65400)	3867 (65700)
NR Band n77 C (15 MHz)	3707.52 (64716)	3769.5 (65000)	3813.51 (65424)	3868.49 (65716)
NR Band n77 C (20 MHz)	3710.03 (64732)	3770.02 (65000)	3813.99 (65440)	3868.98 (65732)
NR Band n77 C (25 MHz)	3712.54 (64748)	3770.51 (65000)	3814.47 (65456)	3869.47 (65748)
NR Band n77 C (30 MHz)	3715.05 (64764)	3771.01 (65000)	3814.95 (65472)	3869.96 (65764)
NR Band n77 C (35 MHz)	3717.56 (64780)	3771.51 (65000)	3815.43 (65488)	3870.45 (65780)
NR Band n77 C (40 MHz)	3720.07 (64796)	3772.01 (65000)	3815.91 (65504)	3870.94 (65796)
NR Band n77 C (45 MHz)	3722.58 (64812)	3772.51 (65000)	3816.39 (65520)	3871.43 (65812)
NR Band n77 C (50 MHz)	3725.09 (64828)	3773.01 (65000)	3816.87 (65536)	3871.92 (65828)
NR Band n77 C (55 MHz)	3727.6 (64844)	3773.51 (65000)	3817.35 (65552)	3872.41 (65844)
NR Band n77 C (60 MHz)	3730.11 (64860)	3774.01 (65000)	3817.83 (65568)	3872.9 (65860)
NR Band n77 C (65 MHz)	3732.62 (64876)	3774.51 (65000)	3818.31 (65584)	3873.39 (65876)
NR Band n77 C (70 MHz)	3735.13 (64892)	3775.01 (65000)	3818.79 (65600)	3873.88 (65892)
NR Band n77 C (75 MHz)	3737.64 (64908)	3775.51 (65000)	3819.27 (65616)	3874.37 (65908)
NR Band n77 C (80 MHz)	3740.15 (64924)	3776.01 (65000)	3819.75 (65632)	3874.86 (65924)
NR Band n77 C (85 MHz)	3742.66 (64940)	3776.51 (65000)	3820.23 (65648)	3875.35 (65940)
NR Band n77 C (90 MHz)	3745.17 (64956)	3777.01 (65000)	3820.71 (65664)	3875.84 (65956)
NR Band n77 C (95 MHz)	3747.68 (64972)	3777.51 (65000)	3821.19 (65680)	3876.33 (65972)
NR Band n77 C (100 MHz)	3750.19 (64988)	3778.01 (65000)	3821.67 (65696)	3876.82 (65988)
SCS for NR Band	3750 (65000)	N/A	N/A	N/A
SCS for NR Band n41/n48/n77 DoD/n77 C	3750 (65000)	N/A		

3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

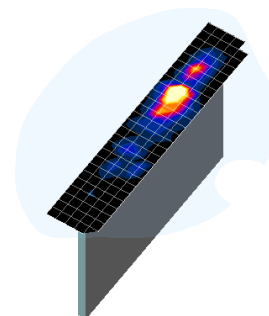


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which people who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes people in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which people are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

6.3 RF Exposure Limits for Frequencies below 6 GHz

Table 6-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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6.4 RF Exposure Limits for Frequencies above 6 GHz

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

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

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

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

Note: 1.0 mW/cm² is 10 W/m²

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in an RF shielded chamber. Establishing connections in this manner ensures a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1-gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

Maximum output power is verified on the High, Middle, and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCH, DPDCH_n and spreading codes, HS-DPCH etc.) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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7.4.2 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.3 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.4 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

7.4.5 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensures a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

7.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

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7.5.3 A-MPR

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

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth.
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with the highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

7.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance with KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

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7.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset-based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

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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.
- 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.

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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.

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 1b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	19.16	19.21	19.11	17.39	17.45	17.32	-
6	HSDPA	Subtest 1	19.12	19.19	19.10	17.38	17.42	17.25	0
6		Subtest 2	19.11	19.14	19.04	17.35	17.38	17.25	0
6		Subtest 3	18.60	18.65	18.59	16.87	16.93	16.78	0.5
6		Subtest 4	18.64	18.65	18.57	16.88	16.89	16.76	0.5
6	HSUPA	Subtest 1	19.15	19.17	19.05	17.37	17.39	17.25	0
6		Subtest 2	17.12	17.19	17.09	15.32	15.39	15.31	2
6		Subtest 3	18.14	18.16	18.05	16.35	16.41	16.25	1
6		Subtest 4	17.06	17.17	17.09	15.35	15.41	15.22	2
6		Subtest 5	19.06	19.09	19.01	17.29	17.35	17.24	0
8	DC-HSDPA	Subtest 1	18.54	18.62	18.54	17.32	17.37	17.26	0
8		Subtest 2	19.07	19.18	19.05	17.37	17.37	17.23	0
8		Subtest 3	18.58	18.61	18.47	16.80	16.84	16.73	0.5
8		Subtest 4	18.04	18.10	18.07	16.86	16.92	16.72	0.5

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Table 8-2
Measured P_{Limit} Antenna 2

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.50	23.50	23.56	16.29	16.27	16.38	16.64	16.66	16.44	-
6	HSDPA	Subtest 1	23.47	23.47	23.51	16.25	16.22	16.36	16.61	16.60	16.43	0
6		Subtest 2	23.49	23.48	23.49	16.26	16.26	16.34	16.61	16.65	16.41	0
6		Subtest 3	22.95	22.95	23.03	15.78	15.74	15.85	16.13	16.11	15.93	0.5
6		Subtest 4	22.94	22.98	23.02	15.77	15.75	15.83	16.13	16.10	15.90	0.5
6	HSUPA	Subtest 1	23.45	23.43	23.54	16.23	16.24	16.34	16.63	16.65	16.42	0
6		Subtest 2	21.45	21.43	21.53	14.28	14.26	14.34	14.61	14.65	14.37	2
6		Subtest 3	22.48	22.43	22.51	15.23	15.20	15.37	15.58	15.61	15.43	1
6		Subtest 4	21.42	21.41	21.50	14.22	14.17	14.31	14.57	14.56	14.42	2
6		Subtest 5	23.45	23.47	23.48	16.23	16.22	16.33	16.60	16.59	16.35	0
8	DC-HSDPA	Subtest 1	23.43	23.41	23.49	16.24	16.22	16.26	16.11	16.04	15.91	0
8		Subtest 2	23.40	23.46	23.47	16.18	16.20	16.32	16.60	16.57	16.39	0
8		Subtest 3	22.93	22.92	22.93	15.74	15.75	15.77	16.06	16.14	15.88	0.5
8		Subtest 4	22.83	22.89	22.98	15.26	15.20	15.30	15.62	15.59	15.39	0.5

Table 8-3
Measured P_{Limit} Antenna 3b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.33	18.36	18.37	18.12	18.07	17.95	-
6	HSDPA	Subtest 1	18.29	18.29	18.32	18.06	18.01	17.91	0
6		Subtest 2	18.31	18.33	18.33	18.09	18.01	17.88	0
6		Subtest 3	17.78	17.80	17.82	17.61	17.50	17.38	0.5
6		Subtest 4	17.79	17.81	17.84	17.58	17.52	17.38	0.5
6	HSUPA	Subtest 1	18.30	18.31	18.36	18.07	18.06	17.93	0
6		Subtest 2	16.32	16.33	16.32	16.06	16.04	15.92	2
6		Subtest 3	17.31	17.33	17.30	17.06	17.01	16.94	1
6		Subtest 4	16.28	16.26	16.29	15.99	15.99	15.84	2
6		Subtest 5	18.24	18.28	18.30	18.02	17.94	17.86	0
8	DC-HSDPA	Subtest 1	17.74	17.79	17.79	17.54	17.49	17.41	0
8		Subtest 2	18.25	18.22	18.27	18.00	17.98	17.85	0
8		Subtest 3	17.75	17.78	17.76	17.58	17.50	17.32	0.5
8		Subtest 4	17.23	17.27	17.25	17.05	16.98	16.97	0.5

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Table 8-4
Measured P_{Limit} Antenna 4

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.42	23.52	23.43	14.87	14.85	14.93	15.51	15.43	15.52	-
6	HSDPA	Subtest 1	23.41	23.48	23.38	14.81	14.83	14.89	15.42	15.37	15.42	0
6		Subtest 2	23.38	23.51	23.39	14.85	14.79	14.89	15.50	15.40	15.46	0
6		Subtest 3	22.90	22.99	22.92	14.30	14.30	14.36	14.98	14.90	14.97	0.5
6		Subtest 4	22.91	22.98	22.87	14.36	14.30	14.42	14.96	14.89	14.95	0.5
6	HSUPA	Subtest 1	23.41	23.50	23.37	14.81	14.83	14.86	15.41	15.36	15.48	0
6		Subtest 2	21.40	21.50	21.40	12.81	12.79	12.86	13.48	13.36	13.48	2
6		Subtest 3	22.40	22.46	22.42	13.85	13.82	13.90	14.45	14.36	14.46	1
6		Subtest 4	21.40	21.41	21.36	12.74	12.79	12.86	13.42	13.35	13.48	2
6		Subtest 5	23.32	23.50	23.36	14.78	14.78	14.83	15.46	15.37	15.44	0
8	DC-HSDPA	Subtest 1	23.38	23.40	23.36	14.85	14.80	14.84	15.40	15.42	15.39	0
8		Subtest 2	23.37	23.41	23.33	14.79	14.82	14.83	15.41	15.35	15.48	0
8		Subtest 3	22.82	22.96	22.87	14.31	14.22	14.34	14.96	14.87	14.89	0.5
8		Subtest 4	22.83	22.96	22.88	14.53	14.58	14.59	14.93	14.99	14.92	0.5

DC-HSDPA considerations

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



Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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

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

8.2.1

LTE Band 71

Table 8-5

LTE Band 71 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.56	0	0
	1	50	24.64		0
	1	99	24.50		0
	50	0	23.83	0-1	0.8
	50	25	23.76		0.8
	50	50	23.78		0.8
	100	0	23.81		0.8
16QAM	1	0	23.05	0-1	0.8
	1	50	23.21		0.8
	1	99	22.97		0.8
	50	0	22.51	0-2	1.8
	50	25	22.52		1.8
	50	50	22.47		1.8
	100	0	22.60		1.8
64QAM	1	0	22.48	0-2	1.8
	1	50	22.82		1.8
	1	99	22.45		1.8
	50	0	21.89	0-3	2.8
	50	25	21.87		2.8
	50	50	21.83		2.8
	100	0	21.95		2.8
256QAM	1	0	19.55	0-5	4.8
	1	50	19.76		4.8
	1	99	19.46		4.8
	50	0	19.61		4.8
	50	25	19.62		4.8
	50	50	19.58		4.8
	100	0	19.71		4.8

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Table 8-6
LTE Band 71 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.43	0	0
	1	50	24.72		0
	1	99	24.38		0
	50	0	24.12	0-1	0.8
	50	25	24.30		0.8
	50	50	24.14		0.8
	100	0	24.21		0.8
16QAM	1	0	23.57	0-1	0.8
	1	50	23.73		0.8
	1	99	23.57		0.8
	50	0	22.90	0-2	1.8
	50	25	22.83		1.8
	50	50	22.91		1.8
	100	0	22.91		1.8
64QAM	1	0	22.72	0-2	1.8
	1	50	22.84		1.8
	1	99	22.58		1.8
	50	0	22.03	0-3	2.8
	50	25	21.95		2.8
	50	50	22.01		2.8
	100	0	22.03		2.8
256QAM	1	0	19.85	0-5	4.8
	1	50	20.05		4.8
	1	99	19.72		4.8
	50	0	20.02		4.8
	50	25	19.95		4.8
	50	50	20.01		4.8
	100	0	20.03		4.8

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8.2.2

LTE Band 12

Table 8-7

LTE Band 12 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.85	0	0
	1	25	23.82		0
	1	49	23.83		0
	25	0	23.32	0-1	0.8
	25	12	23.33		0.8
	25	25	23.36		0.8
	50	0	23.30		0.8
16QAM	1	0	23.29	0-1	0.8
	1	25	23.22		0.8
	1	49	23.25		0.8
	25	0	22.72	0-2	1.8
	25	12	22.60		1.8
	25	25	22.62		1.8
	50	0	22.68		1.8
64QAM	1	0	22.36	0-2	1.8
	1	25	22.37		1.8
	1	49	22.44		1.8
	25	0	21.56	0-3	2.8
	25	12	21.48		2.8
	25	25	21.51		2.8
	50	0	21.56		2.8
256QAM	1	0	19.32	0-5	4.8
	1	25	19.42		4.8
	1	49	19.45		4.8
	25	0	19.56		4.8
	25	12	19.47		4.8
	25	25	19.49		4.8
	50	0	19.55		4.8

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.31	0	0
	1	25	24.24		0
	1	49	24.23		0
	25	0	23.89	0-1	0.5
	25	12	23.84		0.5
	25	25	23.80		0.5
	50	0	23.79		0.5
16QAM	1	0	23.74	0-1	0.5
	1	25	23.60		0.5
	1	49	23.71		0.5
	25	0	22.77	0-2	1.5
	25	12	22.72		1.5
	25	25	22.74		1.5
	50	0	22.76		1.5
64QAM	1	0	22.60	0-2	1.5
	1	25	22.60		1.5
	1	49	22.66		1.5
	25	0	21.64	0-3	2.5
	25	12	21.62		2.5
	25	25	21.68		2.5
	50	0	21.61		2.5
256QAM	1	0	19.71	0-5	4.5
	1	25	19.69		4.5
	1	49	19.74		4.5
	25	0	19.80		4.5
	25	12	19.76		4.5
	25	25	19.80		4.5
	50	0	19.83		4.5

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8.2.3

LTE Band 13

Table 8-9

LTE Band 13 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.70	0	0
	1	25	23.74		0
	1	49	23.72		0
	25	0	23.18	0-1	0.9
	25	12	23.19		0.9
	25	25	23.21		0.9
	50	0	23.20		0.9
16QAM	1	0	23.17	0-1	0.9
	1	25	23.27		0.9
	1	49	23.41		0.9
	25	0	22.35	0-2	1.9
	25	12	22.31		1.9
	25	25	22.42		1.9
	50	0	22.32		1.9
64QAM	1	0	22.15	0-2	1.9
	1	25	22.25		1.9
	1	49	22.30		1.9
	25	0	21.14	0-3	2.9
	25	12	21.11		2.9
	25	25	21.23		2.9
	50	0	21.20		2.9
256QAM	1	0	18.98	0-5	4.9
	1	25	19.01		4.9
	1	49	19.03		4.9
	25	0	19.12		4.9
	25	12	19.09		4.9
	25	25	19.22		4.9
	50	0	19.18		4.9

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Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.27	0	0
	1	25	24.22		0
	1	49	24.33		0
	25	0	24.08	0-1	0.6
	25	12	24.03		0.6
	25	25	24.06		0.6
	50	0	24.05		0.6
16QAM	1	0	23.62	0-1	0.6
	1	25	23.69		0.6
	1	49	23.77		0.6
	25	0	22.85	0-2	1.6
	25	12	22.87		1.6
	25	25	22.93		1.6
	50	0	23.01		1.6
64QAM	1	0	22.51	0-2	1.6
	1	25	22.64		1.6
	1	49	22.53		1.6
	25	0	21.47	0-3	2.6
	25	12	21.49		2.6
	25	25	21.43		2.6
	50	0	21.45		2.6
256QAM	1	0	19.81	0-5	4.6
	1	25	19.90		4.6
	1	49	19.79		4.6
	25	0	19.88		4.6
	25	12	19.90		4.6
	25	25	19.96		4.6
	50	0	19.86		4.6

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8.2.4

LTE Band 14

Table 8-11

LTE Band 14 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.95	0	0
	1	25	24.18		0
	1	49	24.05		0
	25	0	23.42	0-1	0.9
	25	12	23.32		0.9
	25	25	23.40		0.9
	50	0	23.41		0.9
16QAM	1	0	23.16	0-1	0.9
	1	25	23.35		0.9
	1	49	23.19		0.9
	25	0	22.27	0-2	1.9
	25	12	22.35		1.9
	25	25	22.36		1.9
	50	0	22.36		1.9
64QAM	1	0	22.15	0-2	1.9
	1	25	22.33		1.9
	1	49	22.18		1.9
	25	0	21.07	0-3	2.9
	25	12	21.16		2.9
	25	25	21.16		2.9
	50	0	21.21		2.9
256QAM	1	0	18.87	0-5	4.9
	1	25	19.08		4.9
	1	49	18.92		4.9
	25	0	19.04		4.9
	25	12	19.13		4.9
	25	25	19.13		4.9
	50	0	19.19		4.9

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

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.35	0	0
	1	25	24.31		0
	1	49	24.44		0
	25	0	23.88	0-1	0.6
	25	12	23.85		0.6
	25	25	23.84		0.6
	50	0	23.87		0.6
16QAM	1	0	23.68	0-1	0.6
	1	25	23.58		0.6
	1	49	23.67		0.6
	25	0	22.90	0-2	1.6
	25	12	22.88		1.6
	25	25	22.89		1.6
	50	0	22.85		1.6
64QAM	1	0	22.60	0-2	1.6
	1	25	22.52		1.6
	1	49	22.54		1.6
	25	0	21.55	0-3	2.6
	25	12	21.58		2.6
	25	25	21.53		2.6
	50	0	21.51		2.6
256QAM	1	0	19.80	0-5	4.6
	1	25	19.77		4.6
	1	49	19.81		4.6
	25	0	19.94		4.6
	25	12	19.91		4.6
	25	25	19.90		4.6
	50	0	19.90		4.6

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8.2.5

LTE Band 26

Table 8-13

LTE Band 26 (Cell) Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.67	23.71	23.74	0	0
	1	25	23.70	23.73	23.78		0
	1	49	23.69	23.69	23.72		0
	25	0	23.11	23.16	23.19	0-1	0.6
	25	12	23.16	23.08	23.17		0.6
	25	25	23.18	23.19	23.24		0.6
	50	0	23.21	23.23	23.22	0.6	
16QAM	1	0	22.81	22.97	23.04	0-1	0.6
	1	25	22.88	23.06	22.91		0.6
	1	49	22.89	23.02	22.90		0.6
	25	0	22.36	22.43	22.49	0-2	1.6
	25	12	22.43	22.48	22.45		1.6
	25	25	22.46	22.48	22.42		1.6
	50	0	22.50	22.54	22.49	1.6	
64QAM	1	0	22.27	22.31	22.44	0-2	1.6
	1	25	22.40	22.42	22.42		1.6
	1	49	22.30	22.39	22.44		1.6
	25	0	21.42	21.48	21.55	0-3	2.6
	25	12	21.48	21.51	21.48		2.6
	25	25	21.48	21.53	21.47		2.6
	50	0	21.55	21.57	21.54	2.6	
256QAM	1	0	19.55	19.71	19.66	0-5	4.6
	1	25	19.68	19.74	19.63		4.6
	1	49	19.57	19.70	19.67		4.6
	25	0	19.69	19.73	19.80		4.6
	25	12	19.74	19.78	19.74		4.6
	25	25	19.75	19.79	19.72		4.6
	50	0	19.81	19.85	19.79		4.6

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Table 8-14
LTE Band 26 (Cell) Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.64	23.70	23.61	0	0
	1	25	23.74	23.73	23.71		0
	1	49	23.52	23.55	23.61		0
	25	0	23.75	23.72	23.70	0-1	0
	25	12	23.65	23.70	23.69		0
	25	25	23.63	23.71	23.61		0
	50	0	23.71	23.72	23.69		0
16QAM	1	0	23.44	23.68	23.61	0-1	0
	1	25	23.46	23.60	23.72		0
	1	49	23.43	23.62	23.52		0
	25	0	22.83	22.87	22.79	0-2	0.8
	25	12	22.79	22.86	22.85		0.8
	25	25	22.87	22.84	22.89		0.8
	50	0	22.87	22.88	22.89		0.8
64QAM	1	0	22.56	22.50	22.56	0-2	0.8
	1	25	22.58	22.50	22.65		0.8
	1	49	22.51	22.55	22.54		0.8
	25	0	21.60	21.58	21.56	0-3	1.8
	25	12	21.53	21.54	21.52		1.8
	25	25	21.54	21.57	21.52		1.8
	50	0	21.51	21.53	21.56		1.8
256QAM	1	0	19.75	19.69	19.71	0-5	3.8
	1	25	19.75	19.82	19.70		3.8
	1	49	19.67	19.77	19.71		3.8
	25	0	19.86	19.84	19.78		3.8
	25	12	19.83	19.85	19.84		3.8
	25	25	19.89	19.84	19.88		3.8
	50	0	19.90	19.90	19.88		3.8

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8.2.6

LTE Band 5

Table 8-15

LTE Band 5 (Cell) Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.82	0	0
	1	25	23.84		0
	1	49	23.77		0
	25	0	23.42	0-1	0.6
	25	12	23.41		0.6
	25	25	23.40		0.6
	50	0	23.41		0.6
16QAM	1	0	23.19	0-1	0.6
	1	25	23.24		0.6
	1	49	23.31		0.6
	25	0	22.41	0-2	1.6
	25	12	22.49		1.6
	25	25	22.55		1.6
	50	0	22.53		1.6
64QAM	1	0	22.37	0-2	1.6
	1	25	22.42		1.6
	1	49	22.39		1.6
	25	0	21.53	0-3	2.6
	25	12	21.51		2.6
	25	25	21.59		2.6
	50	0	21.56		2.6
256QAM	1	0	19.42	0-5	4.6
	1	25	19.43		4.6
	1	49	19.45		4.6
	25	0	19.49		4.6
	25	12	19.48		4.6
	25	25	19.59		4.6
	50	0	19.56		4.6

Table 8-16

LTE Band 5 (Cell) Measured P_{Limit} Antenna 2 Uplink Carrier Aggregation

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC					PCC UL# RB	PCC UL RB Offset	SCC							Power	
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	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	23.79	23.77

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Table 8-17
LTE Band 5 (Cell) Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.75	0	0
	1	25	23.60		0
	1	49	23.67		0
	25	0	23.77	0-1	0
	25	12	23.72		0
	25	25	23.61		0
	50	0	23.65		0
16QAM	1	0	23.63	0-1	0
	1	25	23.51		0
	1	49	23.63		0
	25	0	22.79	0-2	0.8
	25	12	22.82		0.8
	25	25	22.81		0.8
	50	0	22.89		0.8
64QAM	1	0	22.66	0-2	0.8
	1	25	22.77		0.8
	1	49	22.61		0.8
	25	0	21.52	0-3	1.8
	25	12	21.55		1.8
	25	25	21.53		1.8
	50	0	21.50		1.8
256QAM	1	0	19.73	0-5	3.8
	1	25	19.83		3.8
	1	49	19.71		3.8
	25	0	19.83		3.8
	25	12	19.87		3.8
	25	25	19.88		3.8
	50	0	19.94		3.8

Table 8-18
LTE Band 5 (Cell) Measured P_{Limit} Antenna 4 Uplink Carrier Aggregation

Combination	PCC									SCC								Power		
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	12	13	23.49	23.77

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LTE Band 66

Table 8-19

LTE Band 66 (AWS) Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.95	18.97	18.59	0	0
	1	50	19.14	19.16	18.90		0
	1	99	18.93	18.87	18.62		0
	50	0	19.09	19.13	19.05	0-1	0
	50	25	19.10	19.12	19.07		0
	50	50	19.14	19.16	19.11		0
16QAM	100	0	19.14	19.15	19.14	0	
	1	0	18.78	19.03	18.78	0-1	0
	1	50	19.03	19.08	18.95		0
	1	99	18.86	19.02	18.83		0
	50	0	18.89	18.87	18.77	0-2	0
	50	25	18.88	18.89	18.75		0
50	50	18.87	18.83	18.81	0		
64QAM	100	0	18.94	18.96	18.82	0	
	1	0	18.78	19.11	18.80	0-2	0
	1	50	19.00	19.08	18.93		0
	1	99	18.82	19.05	18.81		0
	50	0	18.90	18.90	18.77	0-3	0
	50	25	18.87	18.91	18.75		0
50	50	18.85	18.85	18.80	0		
256QAM	100	0	18.93	18.97	18.81	0	
	1	0	18.77	19.04	18.78	0-5	0
	1	50	19.01	19.07	18.94		0
	1	99	18.84	19.03	18.89		0
	50	0	18.89	18.89	18.76		0
	50	25	18.88	18.91	18.74		0
50	50	18.87	18.85	18.82	0		
	100	0	18.94	18.97	18.81	0	

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

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.03	15.98	15.95	0	0
	1	50	16.09	16.20	16.18		0
	1	99	16.02	15.96	15.80		0
	50	0	16.13	16.13	16.16	0-1	0
	50	25	16.03	16.19	16.09		0
	50	50	16.12	16.22	15.97		0
	100	0	16.07	16.18	16.12		0
16QAM	1	0	15.96	16.06	16.03	0-1	0
	1	50	16.19	16.17	16.14		0
	1	99	15.99	16.11	15.90		0
	50	0	16.12	15.91	15.93	0-2	0
	50	25	16.10	15.88	15.90		0
	50	50	16.11	15.87	15.86		0
	100	0	16.16	15.95	15.94		0
64QAM	1	0	15.93	16.03	16.01	0-2	0
	1	50	16.18	16.18	16.09		0
	1	99	15.97	16.15	15.92		0
	50	0	16.10	15.91	15.93	0-3	0
	50	25	16.10	15.88	15.89		0
	50	50	16.10	15.87	15.87		0
	100	0	16.16	15.95	15.95		0
256QAM	1	0	16.00	16.02	16.06	0-5	0
	1	50	16.19	16.15	16.13		0
	1	99	15.97	16.14	15.90		0
	50	0	16.12	15.91	15.94		0
	50	25	16.10	15.88	15.91		0
	50	50	16.09	15.86	15.87		0
	100	0	16.15	15.95	15.95		0

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

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.23	18.25	18.00	0	0
	1	50	18.38	18.45	18.11		0
	1	99	18.22	18.26	18.09		0
	50	0	18.39	18.48	18.29	0-1	0
	50	25	18.40	18.45	18.21		0
	50	50	18.41	18.53	18.32		0
	100	0	18.42	18.43	18.30		0
16QAM	1	0	18.53	18.43	18.43	0-1	0
	1	50	18.53	18.66	18.62		0
	1	99	18.29	18.35	18.55		0
	50	0	18.31	18.37	18.12	0-2	0
	50	25	18.24	18.34	18.08		0
	50	50	18.18	18.33	18.08		0
	100	0	18.28	18.40	18.15		0
64QAM	1	0	18.49	18.44	18.44	0-2	0
	1	50	18.54	18.62	18.61		0
	1	99	18.36	18.35	18.52		0
	50	0	18.25	18.37	18.10	0-3	0
	50	25	18.20	18.34	18.09		0
	50	50	18.18	18.33	18.07		0
	100	0	18.25	18.40	18.15		0
256QAM	1	0	18.48	18.42	18.47	0-5	0
	1	50	18.49	18.67	18.63		0
	1	99	18.30	18.36	18.53		0
	50	0	18.26	18.37	18.11		0
	50	25	18.20	18.35	18.08		0
	50	50	18.14	18.34	18.08		0
	100	0	18.26	18.40	18.16		0

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

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.60	14.62	14.59	0	0
	1	50	14.74	14.88	14.76		0
	1	99	14.69	14.60	14.55		0
	50	0	14.74	14.79	14.74	0-1	0
	50	25	14.73	14.84	14.73		0
	50	50	14.75	14.89	14.65		0
	100	0	14.81	14.87	14.78		0
16QAM	1	0	14.71	14.56	14.64	0-1	0
	1	50	14.62	14.74	14.74		0
	1	99	14.65	14.44	14.54		0
	50	0	14.62	14.58	14.45	0-2	0
	50	25	14.60	14.62	14.43		0
	50	50	14.62	14.65	14.41		0
	100	0	14.68	14.70	14.49		0
64QAM	1	0	14.70	14.58	14.61	0-2	0
	1	50	14.72	14.76	14.76		0
	1	99	14.67	14.49	14.53		0
	50	0	14.66	14.60	14.46	0-3	0
	50	25	14.64	14.64	14.43		0
	50	50	14.63	14.64	14.41		0
	100	0	14.69	14.70	14.50		0
256QAM	1	0	14.67	14.56	14.61	0-5	0
	1	50	14.65	14.79	14.70		0
	1	99	14.70	14.48	14.51		0
	50	0	14.64	14.60	14.46		0
	50	25	14.62	14.63	14.44		0
	50	50	14.62	14.65	14.40		0
	100	0	14.68	14.69	14.49		0

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8.2.8

LTE Band 25

Table 8-23

LTE Band 25 (PCS) Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.44	17.32	17.45	0	0
	1	50	17.65	17.45	17.52		0
	1	99	17.50	17.37	17.40		0
	50	0	17.72	17.68	17.52	0-1	0
	50	25	17.71	17.67	17.53		0
	50	50	17.70	17.65	17.51		0
	100	0	17.63	17.61	17.60		0
16QAM	1	0	17.27	17.59	17.21	0-1	0
	1	50	17.53	17.62	17.35		0
	1	99	17.31	17.45	17.30		0
	50	0	17.37	17.29	17.28	0-2	0
	50	25	17.39	17.29	17.24		0
	50	50	17.46	17.35	17.20		0
	100	0	17.45	17.35	17.21		0
64QAM	1	0	17.31	17.52	17.22	0-2	0
	1	50	17.51	17.64	17.38		0
	1	99	17.38	17.48	17.33		0
	50	0	17.36	17.31	17.28	0-3	0
	50	25	17.40	17.29	17.30		0
	50	50	17.48	17.34	17.20		0
	100	0	17.47	17.36	17.21		0
256QAM	1	0	17.27	17.51	17.23	0-5	0
	1	50	17.57	17.63	17.34		0
	1	99	17.30	17.49	17.32		0
	50	0	17.36	17.30	17.30		0
	50	25	17.42	17.30	17.27		0
	50	50	17.48	17.34	17.26		0
	100	0	17.48	17.36	17.20		0

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

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.27	16.51	16.34	0	0
	1	50	16.50	16.69	16.42		0
	1	99	16.35	16.47	16.34		0
	50	0	16.67	16.70	16.47	0-1	0
	50	25	16.62	16.59	16.41		0
	50	50	16.68	16.58	16.46		0
	100	0	16.60	16.68	16.47		0
16QAM	1	0	16.43	16.37	16.23	0-1	0
	1	50	16.53	16.50	16.42		0
	1	99	16.50	16.22	16.24		0
	50	0	16.47	16.32	16.11	0-2	0
	50	25	16.49	16.30	16.10		0
	50	50	16.45	16.29	16.15		0
	100	0	16.54	16.37	16.14		0
64QAM	1	0	16.49	16.35	16.27	0-2	0
	1	50	16.50	16.48	16.42		0
	1	99	16.48	16.24	16.23		0
	50	0	16.47	16.32	16.11	0-3	0
	50	25	16.48	16.31	16.08		0
	50	50	16.45	16.30	16.16		0
	100	0	16.52	16.37	16.14		0
256QAM	1	0	16.49	16.38	16.28	0-5	0
	1	50	16.67	16.47	16.41		0
	1	99	16.53	16.25	16.21		0
	50	0	16.46	16.34	16.12		0
	50	25	16.48	16.33	16.09		0
	50	50	16.44	16.32	16.15		0
	100	0	16.54	16.39	16.13		0

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Table 8-25
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.95	17.85	17.86	0	0
	1	50	18.11	18.09	17.95		0
	1	99	17.93	17.92	17.83		0
	50	0	18.27	18.20	17.94	0-1	0
	50	25	18.25	18.22	17.97		0
	50	50	18.24	18.14	17.89		0
	100	0	18.06	18.07	18.00		0
16QAM	1	0	18.14	18.27	18.02	0-1	0
	1	50	18.28	18.46	18.10		0
	1	99	18.12	18.15	18.05		0
	50	0	18.18	18.09	17.88	0-2	0
	50	25	18.20	18.07	17.89		0
	50	50	18.20	18.06	17.92		0
	100	0	18.26	18.12	17.93		0
64QAM	1	0	18.18	18.27	18.04	0-2	0
	1	50	18.30	18.47	18.08		0
	1	99	18.12	18.19	18.01		0
	50	0	18.20	18.09	17.89	0-3	0
	50	25	18.19	18.08	17.86		0
	50	50	18.20	18.07	17.91		0
	100	0	18.25	18.14	17.93		0
256QAM	1	0	18.18	18.31	18.00	0-5	0
	1	50	18.24	18.45	18.07		0
	1	99	18.13	18.19	18.01		0
	50	0	18.20	18.09	17.89		0
	50	25	18.18	18.08	17.87		0
	50	50	18.20	18.07	17.91		0
	100	0	18.25	18.13	17.92		0

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

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	15.47	15.64	15.13	0	0
	1	50	15.52	15.70	15.15		0
	1	99	15.44	15.67	15.12		0
	50	0	15.51	15.63	15.36	0-1	0
	50	25	15.54	15.58	15.28		0
	50	50	15.59	15.56	15.32		0
	100	0	15.55	15.62	15.36		0
16QAM	1	0	15.90	15.70	15.53	0-1	0
	1	50	16.07	15.88	15.55		0
	1	99	15.88	15.56	15.42		0
	50	0	15.51	15.61	15.37	0-2	0
	50	25	15.63	15.59	15.33		0
	50	50	15.59	15.58	15.34		0
	100	0	15.69	15.64	15.42		0
64QAM	1	0	15.92	15.71	15.51	0-2	0
	1	50	16.07	15.87	15.58		0
	1	99	15.88	15.61	15.36		0
	50	0	15.52	15.61	15.37	0-3	0
	50	25	15.63	15.58	15.34		0
	50	50	15.58	15.58	15.34		0
	100	0	15.68	15.64	15.43		0
256QAM	1	0	15.86	15.72	15.54	0-5	0
	1	50	16.07	15.89	15.57		0
	1	99	15.87	15.60	15.36		0
	50	0	15.51	15.61	15.37		0
	50	25	15.63	15.58	15.33		0
	50	50	15.59	15.58	15.33		0
	100	0	15.68	15.64	15.43		0

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8.2.9

LTE Band 30

Table 8-27

LTE Band 30 Measured P_{Limit} Antenna 1b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.09	0	0
	1	25	20.29		0
	1	49	20.15		0
	25	0	20.41	0-1	0
	25	12	20.28		0
	25	25	20.23		0
	50	0	20.20		0
16QAM	1	0	20.50	0-1	0
	1	25	20.38		0
	1	49	20.30		0
	25	0	20.16	0-2	0
	25	12	20.14		0
	25	25	20.15		0
	50	0	20.15		0
64QAM	1	0	20.36	0-2	0
	1	25	20.44		0
	1	49	20.42		0
	25	0	20.16	0-3	0
	25	12	20.14		0
	25	25	20.13		0
	50	0	20.17		0
256QAM	1	0	18.60	0-5	1.3
	1	25	18.67		1.3
	1	49	18.61		1.3
	25	0	18.70		1.3
	25	12	18.75		1.3
	25	25	18.75		1.3
	50	0	18.82		1.3

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

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.74	0	0
	1	25	18.82		0
	1	49	18.79		0
	25	0	18.70	0-1	0
	25	12	18.77		0
	25	25	18.66		0
	50	0	18.70		0
16QAM	1	0	18.90	0-1	0
	1	25	18.90		0
	1	49	18.94		0
	25	0	18.66	0-2	0
	25	12	18.57		0
	25	25	18.66		0
	50	0	18.70		0
64QAM	1	0	18.91	0-2	0
	1	25	18.94		0
	1	49	18.91		0
	25	0	18.67	0-3	0
	25	12	18.58		0
	25	25	18.65		0
	50	0	18.70		0
256QAM	1	0	17.10	0-5	1.6
	1	25	17.09		1.6
	1	49	17.08		1.6
	25	0	17.17		1.6
	25	12	17.11		1.6
	25	25	17.16		1.6
	50	0	17.22		1.6

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Table 8-29
LTE Band 30 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.25	0	0
	1	25	17.33		0
	1	49	17.24		0
	25	0	17.49	0-1	0
	25	12	17.42		0
	25	25	17.47		0
	50	0	17.32		0
16QAM	1	0	17.36	0-1	0
	1	25	17.40		0
	1	49	17.42		0
	25	0	17.13	0-2	0
	25	12	17.11		0
	25	25	17.10		0
	50	0	17.17		0
64QAM	1	0	17.37	0-2	0
	1	25	17.41		0
	1	49	17.44		0
	25	0	17.13	0-3	0
	25	12	17.13		0
	25	25	17.09		0
	50	0	17.17		0
256QAM	1	0	17.38	0-5	0
	1	25	17.44		0
	1	49	17.39		0
	25	0	17.14		0
	25	12	17.12		0
	25	25	17.11		0
	50	0	17.15		0

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

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.82	0	0
	1	25	18.87		0
	1	49	18.91		0
	25	0	18.99	0-1	0
	25	12	18.82		0
	25	25	18.81		0
	50	0	18.87		0
16QAM	1	0	19.59	0-1	0
	1	25	19.61		0
	1	49	19.58		0
	25	0	19.21	0-2	0.3
	25	12	19.22		0.3
	25	25	19.29		0.3
	50	0	19.26		0.3
64QAM	1	0	18.55	0-2	0.3
	1	25	18.56		0.3
	1	49	18.52		0.3
	25	0	17.61	0-3	1.3
	25	12	17.56		1.3
	25	25	17.58		1.3
	50	0	17.53		1.3
256QAM	1	0	15.50	0-5	3.3
	1	25	15.52		3.3
	1	49	15.50		3.3
	25	0	15.60		3.3
	25	12	15.58		3.3
	25	25	15.67		3.3
	50	0	15.65		3.3

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8.2.10

LTE Band 7

Table 8-31

LTE Band 7 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.42	19.46	19.30	0	0
	1	50	19.57	19.43	19.40		0
	1	99	19.47	19.49	19.35		0
	50	0	19.50	19.55	19.35	0-1	0
	50	25	19.63	19.57	19.53		0
	50	50	19.58	19.54	19.47		0
	100	0	19.54	19.49	19.42		0
16QAM	1	0	19.38	19.33	19.49	0-1	0
	1	50	19.68	19.38	19.63		0
	1	99	19.45	19.30	19.51		0
	50	0	19.43	19.30	19.26	0-2	0
	50	25	19.38	19.28	19.32		0
	50	50	19.31	19.28	19.32		0
	100	0	19.42	19.33	19.38		0
64QAM	1	0	19.44	19.29	19.51	0-2	0
	1	50	19.70	19.43	19.64		0
	1	99	19.43	19.26	19.53		0
	50	0	19.43	19.30	19.26	0-3	0
	50	25	19.37	19.28	19.31		0
	50	50	19.30	19.27	19.32		0
	100	0	19.42	19.33	19.38		0
256QAM	1	0	18.08	18.26	18.32	0-5	1.1
	1	50	18.34	18.39	18.43		1.1
	1	99	18.10	18.21	18.35		1.1
	50	0	18.50	18.35	18.30		1.1
	50	25	18.44	18.33	18.36		1.1
	50	50	18.37	18.32	18.35		1.1
	100	0	18.49	18.39	18.43		1.1

Table 8-32

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

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	19.40	19.30

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

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.05	18.04	18.01	0	0
	1	50	18.06	18.05	18.02		0
	1	99	18.05	18.03	18.00		0
	50	0	18.22	18.30	18.28	0-1	0
	50	25	18.30	18.25	18.30		0
	50	50	18.35	18.24	18.33		0
	100	0	18.05	18.04	18.03		0
16QAM	1	0	18.03	18.02	18.23	0-1	0
	1	50	18.38	18.28	18.54		0
	1	99	18.16	18.03	18.48		0
	50	0	18.14	18.05	18.15	0-2	0
	50	25	18.14	18.03	18.23		0
	50	50	18.15	18.06	18.23		0
	100	0	18.19	18.11	18.27		0
64QAM	1	0	18.16	18.05	18.24	0-2	0
	1	50	18.37	18.29	18.61		0
	1	99	18.24	18.10	18.46		0
	50	0	18.14	18.06	18.16	0-3	0
	50	25	18.14	18.05	18.21		0
	50	50	18.16	18.07	18.23		0
	100	0	18.20	18.13	18.27		0
256QAM	1	0	18.10	18.05	18.23	0-5	0
	1	50	18.41	18.30	18.56		0
	1	99	18.22	18.11	18.49		0
	50	0	18.14	18.07	18.15		0
	50	25	18.13	18.06	18.22		0
	50	50	18.15	18.08	18.22		0
	100	0	18.19	18.13	18.25		0

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

	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	17.75	18.05

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Table 8-35
LTE Band 7 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.55	18.54	18.58	0	0
	1	50	18.76	18.77	18.70		0
	1	99	18.59	18.66	18.41		0
	50	0	18.72	18.72	18.65	0-1	0
	50	25	18.73	18.72	18.74		0
	50	50	18.77	18.78	18.72		0
	100	0	18.71	18.75	18.70	0	
16QAM	1	0	18.51	18.71	18.45	0-1	0
	1	50	18.68	18.82	18.73		0
	1	99	18.57	18.72	18.62		0
	50	0	18.44	18.44	18.51	0-2	0
	50	25	18.36	18.40	18.50		0
	50	50	18.43	18.45	18.51		0
	100	0	18.41	18.46	18.57	0	
64QAM	1	0	18.55	18.76	18.46	0-2	0
	1	50	18.72	18.83	18.73		0
	1	99	18.54	18.73	18.63		0
	50	0	18.44	18.47	18.51	0-3	0
	50	25	18.36	18.43	18.50		0
	50	50	18.42	18.46	18.50		0
	100	0	18.40	18.47	18.56	0	
256QAM	1	0	18.55	18.75	18.47	0-5	0
	1	50	18.63	18.82	18.67		0
	1	99	18.55	18.70	18.62		0
	50	0	18.42	18.48	18.51		0
	50	25	18.37	18.41	18.51		0
	50	50	18.44	18.46	18.51		0
	100	0	18.42	18.47	18.56		0

Table 8-36
LTE Band 7 Measured P_{Limit} Antenna 3b 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	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	18.46	18.58

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

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.95	18.50	18.68	0	0
	1	50	19.11	18.80	18.83		0
	1	99	18.82	18.51	18.68		0
	50	0	18.99	19.01	18.85	0-1	0
	50	25	19.07	19.06	18.86		0
	50	50	18.97	19.01	18.82		0
	100	0	19.02	19.03	18.89		0
16QAM	1	0	18.90	18.66	18.52	0-1	0
	1	50	19.02	18.86	18.70		0
	1	99	18.87	18.65	18.55		0
	50	0	18.59	18.61	18.55	0-2	0
	50	25	18.51	18.59	18.54		0
	50	50	18.58	18.57	18.54		0
	100	0	18.56	18.65	18.58		0
64QAM	1	0	18.94	18.67	18.56	0-2	0
	1	50	19.07	18.84	18.65		0
	1	99	18.90	18.66	18.59		0
	50	0	18.61	18.61	18.54	0-3	0
	50	25	18.53	18.59	18.58		0
	50	50	18.59	18.58	18.57		0
	100	0	18.57	18.66	18.55		0
256QAM	1	0	18.98	18.67	18.53	0-5	0
	1	50	19.07	18.83	18.65		0
	1	99	18.92	18.64	18.54		0
	50	0	18.60	18.60	18.58		0
	50	25	18.53	18.58	18.60		0
	50	50	18.60	18.57	18.62		0
	100	0	18.57	18.64	18.52		0

Table 8-38
LTE Band 7 Measured P_{Limit} Antenna 4 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	18.91	18.85

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LTE Band 41

Table 8-39

LTE Band 41 PC3 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
			Conducted Power [dBm]							
QPSK	1	0	20.53	20.42	20.44	20.45	20.50	0	0	
	1	50	20.75	20.45	20.51	20.50	20.56		0-1	0
	1	99	20.58	20.40	20.41	20.48	20.37			0
	50	0	20.60	20.55	20.54	20.50	20.32	0		
	50	25	20.68	20.57	20.56	20.53	20.33	0		0
	50	50	20.76	20.54	20.61	20.59	20.34		0	
	100	0	20.73	20.66	20.62	20.57	20.37		0	
16QAM	1	0	20.31	20.15	20.37	20.34	20.14	0-1	0	
	1	50	20.70	20.40	20.49	20.45	20.49		0-2	0
	1	99	20.55	20.27	20.35	20.23	20.06			0
	50	0	20.30	20.14	20.38	20.35	20.18	0		0
	50	25	20.70	20.41	20.47	20.46	20.50			0
	50	50	20.55	20.26	20.34	20.19	20.05		0	
	100	0	20.57	20.32	20.34	20.20	20.09	0		
64QAM	1	0	20.26	20.13	20.36	20.30	20.09	0-2	0	
	1	50	20.67	20.34	20.44	20.38	20.47		0-3	0
	1	99	20.48	20.23	20.31	20.18	20.04			0
	50	0	20.29	20.12	20.36	20.31	20.07	0		
	50	25	20.67	20.39	20.43	20.44	20.48	0		0
	50	50	20.53	20.24	20.34	20.20	20.05		0	
	100	0	20.24	20.13	20.36	20.30	20.08		0	
256QAM	1	0	19.69	19.51	19.76	19.68	19.51	0-5	0.6	
	1	50	20.04	19.80	19.82	19.83	19.88		0.6	
	1	99	19.88	19.67	19.73	19.57	19.44		0.6	
	50	0	19.66	19.52	19.78	19.71	19.51		0.6	
	50	25	20.01	19.77	19.85	19.85	19.91		0.6	
	50	50	19.91	19.62	19.77	19.53	19.45		0.6	
	100	0	19.70	19.55	19.72	19.70	19.52		0.6	

Table 8-40

LTE Band 41 PC3 Measured P_{Limit} Antenna 1b 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	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	19.69	20.20

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Table 8-41
LTE Band 41 PC2 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.83	21.71	21.84	21.96	21.91	0	0
	1	50	22.13	21.92	21.96	22.15	22.19		0
	1	99	21.98	21.97	21.78	21.92	22.18		0
	50	0	22.07	21.93	22.07	22.19	22.15	0-1	0
	50	25	22.12	21.95	22.07	22.20	22.14		0
	50	50	22.21	22.02	22.08	22.21	22.22		0
	100	0	22.18	22.01	22.07	22.18	22.18		0

Table 8-42
LTE Band 41 PC2 Measured P_{Limit} Antenna 1b 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	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	21.72	21.91

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

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	20.95	20.98	21.08	21.20	21.22	0	0
	1	50	21.14	21.19	21.26	21.22	21.25		0
	1	99	20.93	21.05	21.20	21.10	21.16		0
	50	0	21.18	21.23	21.30	21.23	21.24	0-1	0
	50	25	21.22	21.26	21.32	21.29	21.27		0
	50	50	21.15	21.24	21.28	21.24	21.25		0
	100	0	21.13	21.24	21.25	21.20	21.22		0
16QAM	1	0	20.57	20.62	20.91	21.09	21.13	0-1	0
	1	50	20.74	20.87	21.18	21.44	21.30		0
	1	99	20.58	20.77	21.06	21.30	21.21		0
	50	0	20.49	20.55	20.87	20.95	20.94	0-2	0
	50	25	20.49	20.53	20.86	20.98	20.93		0
	50	50	20.51	20.54	20.89	21.06	20.94		0
	100	0	20.55	20.60	20.93	21.02	20.99		0
64QAM	1	0	20.60	20.63	20.90	21.07	21.10	0-2	0
	1	50	20.74	20.69	21.16	21.22	21.27		0
	1	99	20.66	20.68	21.05	21.20	21.13		0
	50	0	20.51	20.56	20.89	20.97	20.97	0-3	0
	50	25	20.49	20.56	20.89	21.00	20.97		0
	50	50	20.51	20.57	20.90	21.09	20.98		0
	100	0	20.57	20.63	20.95	21.04	21.01		0
256QAM	1	0	19.40	19.42	19.51	19.62	19.72	0-5	1
	1	50	19.38	19.35	19.71	19.84	19.84		1
	1	99	19.35	19.35	19.63	19.80	19.77		1
	50	0	19.58	19.58	19.94	20.03	20.03		1
	50	25	19.58	19.59	19.95	20.05	20.03		1
	50	50	19.59	19.62	19.96	20.15	20.05		1
	100	0	19.65	19.67	20.00	20.12	20.07		1

Table 8-44
LTE Band 41 PC3 Measured P_{Limit} Antenna 2 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	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	21.19	21.20

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

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.15	22.22	22.61	22.45	22.62	0	0
	1	50	22.39	22.46	22.79	22.72	22.68		0
	1	99	22.22	22.25	22.76	22.59	22.55		0
	50	0	22.36	22.45	22.68	22.70	22.69	0-1	0
	50	25	22.42	22.50	22.75	22.72	22.71		0
	50	50	22.37	22.44	22.69	22.68	22.67		0
	100	0	22.35	22.43	22.70	22.68	22.69		0

Table 8-46
LTE Band 41 PC2 Measured P_{Limit} Antenna 2 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	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	22.75	22.76

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Table 8-47
LTE Band 41 PC3 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	20.28	20.36	20.43	20.18	20.23	0	0
	1	50	20.53	20.63	20.73	20.46	20.55		0
	1	99	20.27	20.49	20.51	20.23	20.25		0
	50	0	20.52	20.62	20.71	20.23	20.25	0-1	0
	50	25	20.56	20.67	20.76	20.28	20.30		0
	50	50	20.54	20.66	20.69	20.27	20.29		0
	100	0	20.57	20.63	20.71	20.57	20.57		0
16QAM	1	0	20.23	20.35	20.42	20.12	20.16	0-1	0
	1	50	20.51	20.61	20.68	20.41	20.54		0
	1	99	20.25	20.48	20.44	20.22	20.18		0
	50	0	20.21	20.29	20.37	20.14	20.17	0-2	0
	50	25	20.52	20.56	20.69	20.42	20.49		0
	50	50	20.22	20.45	20.48	20.18	20.18		0
	100	0	20.24	20.43	20.45	20.19	20.19		0
64QAM	1	0	20.18	20.28	20.38	20.14	20.11	0-2	0
	1	50	20.49	20.58	20.66	20.34	20.49		0
	1	99	20.23	20.43	20.40	20.15	20.17		0
	50	0	20.21	20.33	20.39	20.14	20.13	0-3	0
	50	25	20.48	20.59	20.61	20.40	20.48		0
	50	50	20.19	20.42	20.37	20.19	20.13		0
	100	0	20.18	20.29	20.37	20.21	20.11		0
256QAM	1	0	19.56	19.68	19.72	19.52	19.50	0-5	0.8
	1	50	19.88	19.90	20.04	19.78	19.88		0.8
	1	99	19.59	19.82	19.80	19.55	19.54		0.8
	50	0	19.57	19.67	19.70	19.55	19.49		0.8
	50	25	19.90	19.92	20.00	19.80	19.88		0.8
	50	50	19.54	19.83	19.81	19.50	19.59		0.8
	100	0	19.58	19.67	19.76	19.55	19.53		0.8

Table 8-48
LTE Band 41 PC3 Measured P_{Limit} Antenna 3b 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	20.15	20.25

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Table 8-49
LTE Band 41 PC2 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.02	22.09	22.39	21.96	21.92	0	0
	1	50	22.26	22.35	22.70	22.26	22.26		0
	1	99	22.03	22.18	22.45	22.03	22.03		0
	50	0	22.32	22.40	22.47	22.28	22.22	0-1	0
	50	25	22.35	22.45	22.53	22.33	22.32		0
	50	50	22.33	22.44	22.47	22.32	22.31		0
	100	0	22.40	22.46	22.49	22.36	22.35		0

Table 8-50
LTE Band 41 PC2 Measured P_{Limit} Antenna 3b 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	22.00	22.22

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Table 8-51
LTE Band 41 PC3 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	20.40	20.45	20.38	20.28	20.32	0	0
	1	50	20.67	20.50	20.60	20.45	20.43		0
	1	99	20.47	20.31	20.48	20.33	20.22		0
	50	0	20.69	20.57	20.65	20.55	20.45	0-1	0
	50	25	20.65	20.53	20.64	20.54	20.38		0
	50	50	20.68	20.49	20.62	20.51	20.36		0
	100	0	20.65	20.55	20.60	20.57	20.38		0
16QAM	1	0	20.14	20.22	20.32	20.43	20.28	0-1	0
	1	50	20.39	20.35	20.53	20.57	20.40		0
	1	99	20.29	20.23	20.39	20.48	20.19		0
	50	0	20.35	20.37	20.42	20.65	20.48	0-2	0
	50	25	20.35	20.35	20.42	20.64	20.41		0
	50	50	20.41	20.35	20.43	20.65	20.40		0
	100	0	20.40	20.42	20.49	20.72	20.48		0
64QAM	1	0	20.13	20.20	20.31	20.44	20.27	0-2	0
	1	50	20.38	20.36	20.58	20.55	20.41		0
	1	99	20.25	20.21	20.41	20.47	20.16		0
	50	0	20.35	20.37	20.42	20.64	20.50	0-3	0
	50	25	20.34	20.35	20.42	20.64	20.42		0
	50	50	20.41	20.35	20.44	20.63	20.41		0
	100	0	20.41	20.42	20.49	20.69	20.47		0
256QAM	1	0	19.72	19.82	19.77	19.97	19.99	0-5	0.5
	1	50	19.88	19.97	20.04	20.13	20.09		0.5
	1	99	19.85	19.72	19.91	20.10	19.82		0.5
	50	0	19.94	19.93	19.97	20.19	20.08		0.5
	50	25	19.94	19.91	19.97	20.18	19.97		0.5
	50	50	20.02	19.92	19.98	20.19	19.96		0.5
	100	0	19.99	19.98	20.03	20.24	20.03		0.5

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

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	20.86	20.68

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

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.62	21.59	21.83	21.72	21.67	0	0
	1	50	22.11	21.67	22.10	21.86	21.81		0
	1	99	21.63	21.47	22.04	21.73	21.67		0
	50	0	22.20	21.78	21.97	21.96	21.88	0-1	0
	50	25	21.92	21.75	21.91	21.96	21.89		0
	50	50	22.16	21.81	21.98	21.97	21.92		0
	100	0	21.97	21.80	21.96	21.95	21.91		0

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

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	21.90	22.16

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8.2.1

LTE Band 48

Table 8-55

LTE Band 48 Measured P_{Limit} Antenna 1a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.79	21.72	21.93	21.75	0	0
	1	50	22.03	21.96	22.17	21.96		0
	1	99	21.97	21.77	21.96	21.72		0
	50	0	21.37	21.42	21.53	21.37	0-1	0.5
	50	25	21.40	21.45	21.55	21.47		0.5
	50	50	21.38	21.44	21.45	21.42		0.5
	100	0	21.35	21.39	21.47	21.41		0.5
16QAM	1	0	21.74	21.31	21.48	21.39	0-1	0.5
	1	50	21.94	21.64	21.62	21.49		0.5
	1	99	21.69	21.37	21.38	21.39		0.5
	50	0	20.80	20.71	20.69	20.41	0-2	1.5
	50	25	20.80	20.74	20.68	20.39		1.5
	50	50	20.79	20.74	20.66	20.38		1.5
	100	0	20.85	20.82	20.74	20.45		1.5
64QAM	1	0	20.67	20.49	20.53	20.26	0-2	1.5
	1	50	20.85	20.72	20.70	20.38		1.5
	1	99	20.64	20.53	20.49	20.20		1.5
	50	0	19.82	19.74	19.72	19.43	0-3	2.5
	50	25	19.81	19.77	19.69	19.40		2.5
	50	50	19.81	19.77	19.67	19.38		2.5
	100	0	19.87	19.83	19.75	19.46		2.5
256QAM	1	0	17.71	17.53	17.56	17.30	0-5	4.5
	1	50	17.87	17.71	17.69	17.46		4.5
	1	99	17.70	17.59	17.49	17.23		4.5
	50	0	17.86	17.77	17.74	17.46		4.5
	50	25	17.85	17.80	17.71	17.44		4.5
	50	50	17.85	17.80	17.69	17.42		4.5
	100	0	17.91	17.87	17.77	17.50		4.5

Table 8-56

LTE Band 48 Measured P_{Limit} Antenna 1a Uplink Carrier Aggregation

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	22.00	21.97

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

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	18.13	18.21	18.10	18.14	0	0
	1	50	18.43	18.39	18.50	18.37		0
	1	99	18.42	18.20	18.16	18.11		0
	50	0	17.50	17.55	17.57	17.51	0-1	1
	50	25	17.52	17.58	17.62	17.48		1
	50	50	17.47	17.52	17.56	17.45		1
	100	0	17.45	17.48	17.51	17.44		1
16QAM	1	0	17.59	17.37	17.43	17.22	0-1	1
	1	50	17.60	17.58	17.50	17.41		1
	1	99	17.58	17.53	17.37	17.26		1
	50	0	16.60	16.60	16.53	16.26	0-2	2
	50	25	16.60	16.59	16.51	16.24		2
	50	50	16.61	16.61	16.44	16.25		2
	100	0	16.65	16.67	16.59	16.32		2
64QAM	1	0	16.45	16.45	16.34	16.16	0-2	2
	1	50	16.62	16.64	16.45	16.30		2
	1	99	16.44	16.55	16.26	16.09		2
	50	0	15.64	15.62	15.56	15.32	0-3	3
	50	25	15.64	15.62	15.55	15.31		3
	50	50	15.65	15.64	15.47	15.30		3
	100	0	15.70	15.69	15.61	15.37		3
256QAM	1	0	13.47	13.46	13.35	13.16	0-5	5
	1	50	13.66	13.66	13.48	13.34		5
	1	99	13.48	13.57	13.28	13.10		5
	50	0	13.64	13.63	13.56	13.33		5
	50	25	13.64	13.62	13.55	13.31		5
	50	50	13.65	13.64	13.48	13.31		5
	100	0	13.70	13.69	13.62	13.37		5

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

Combination	PCC				Modulation	PCC UL# RB		SCC				Modulation	SCC UL# RB		Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]		PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/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_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	18.45	18.42

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Table 8-59
LTE Band 48 Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.24	20.35	20.11	20.10	0	0
	1	50	20.54	20.60	20.17	20.21		0
	1	99	20.53	20.37	19.88	19.88		0
	50	0	19.51	19.55	19.48	19.37	0-1	1
	50	25	19.56	19.61	19.55	19.42		1
	50	50	19.52	19.57	19.53	19.27		1
	100	0	19.47	19.50	19.49	19.44		1
16QAM	1	0	19.08	19.27	19.04	18.70	0-1	1
	1	50	19.26	19.52	19.18	18.90		1
	1	99	19.12	19.30	18.97	18.72		1
	50	0	18.38	18.39	18.27	17.94	0-2	2
	50	25	18.37	18.42	18.27	17.96		2
	50	50	18.36	18.43	18.26	17.96		2
	100	0	18.41	18.52	18.30	18.03		2
64QAM	1	0	18.24	18.26	18.13	17.78	0-2	2
	1	50	18.37	18.47	18.27	17.94		2
	1	99	18.18	18.24	18.06	17.80		2
	50	0	17.43	17.44	17.30	16.99	0-3	3
	50	25	17.42	17.51	17.28	17.04		3
	50	50	17.42	17.51	17.27	17.03		3
	100	0	17.48	17.57	17.34	17.10		3
256QAM	1	0	15.31	15.22	15.13	14.83	0-5	5
	1	50	15.43	15.44	15.27	15.07		5
	1	99	15.23	15.25	15.06	14.88		5
	50	0	15.45	15.44	15.31	15.00		5
	50	25	15.43	15.51	15.29	15.06		5
	50	50	15.44	15.52	15.27	15.05		5
	100	0	15.50	15.57	15.35	15.12		5

Table 8-60
LTE Band 48 Measured P_{Limit} Antenna 3a Uplink Carrier Aggregation

Combination	PCC				Modulation	PCC UL#		SCC				Modulation	SCC UL#		Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]		PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/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_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	20.50	20.53

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Table 8-61
LTE Band 48 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.42	20.34	20.28	20.18	0	0
	1	50	20.50	20.52	20.59	20.37		0
	1	99	20.39	20.41	20.35	20.10		0
	50	0	19.58	19.61	19.65	19.47	0-1	1
	50	25	19.60	19.62	19.67	19.51		1
	50	50	19.61	19.64	19.69	19.52		1
	100	0	19.57	19.60	19.62	19.45		1
16QAM	1	0	18.72	18.72	18.71	18.79	0-1	1
	1	50	18.98	18.84	18.90	18.98		1
	1	99	18.77	18.77	18.70	18.79		1
	50	0	18.11	18.10	18.16	18.01	0-2	2
	50	25	18.11	18.10	18.15	18.05		2
	50	50	18.11	18.09	18.14	18.04		2
	100	0	18.17	18.17	18.20	18.12		2
64QAM	1	0	17.98	17.95	18.07	17.88	0-2	2
	1	50	18.13	18.14	18.20	18.09		2
	1	99	17.95	18.01	18.02	17.85		2
	50	0	17.14	17.14	17.19	17.04	0-3	3
	50	25	17.13	17.13	17.17	17.05		3
	50	50	17.13	17.14	17.16	17.03		3
	100	0	17.17	17.22	17.21	17.11		3
256QAM	1	0	14.94	14.95	15.01	14.88	0-5	5
	1	50	15.12	15.14	15.20	15.07		5
	1	99	14.93	15.05	14.99	14.85		5
	50	0	15.13	15.16	15.18	15.04		5
	50	25	15.13	15.15	15.16	15.05		5
	50	50	15.13	15.15	15.15	15.04		5
	100	0	15.18	15.20	15.22	15.11		5

Table 8-62
LTE Band 48 Measured P_{Limit} Antenna 4 Uplink Carrier Aggregation

Combination	PCC								SCC					Power		
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	20.31	20.39

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Notes:

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



Figure 8-2
Power Measurement Setup

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8.3 NR P_{limit} Conducted Powers

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

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

8.3.1 NR Band n71

Table 8-63
NR Band n71 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.28	0	0.0
	1	53	24.26		0.0
	1	104	24.11		0.0
	50	0	23.72	0-1	0.7
	50	28	24.42	0	0.0
	50	56	23.72	0-1	0.7
	100	0	23.72		0.7
DFT-s-OFDM 16QAM	1	1	23.55	0-1	0.7
CP-OFDM QPSK	1	1	22.92	0-1.5	1.2

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Table 8-64
NR Band n71 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.20	0	0.0
	1	53	24.22		0.0
	1	104	24.29		0.0
	50	0	23.65	0-1	0.7
	50	28	24.24	0	0.0
	50	56	23.68	0-1	0.7
	100	0	23.61		0.7
DFT-s-OFDM 16QAM	1	1	23.59	0-1	0.7
CP-OFDM QPSK	1	1	23.12	0-1.5	1.2

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8.3.2

NR Band n12

Table 8-65
NR Band n12 Measured P_{Limit} Antenna 2 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.12	0	0.0
	1	40	24.15		0.0
	1	77	23.91		0.0
	36	0	23.57	0-1	0.8
	36	22	24.42	0	0.0
	36	43	23.60	0-1	0.8
	75	0	23.72		0.8
DFT-s-OFDM 16QAM	1	1	23.70	0-1	0.8
CP-OFDM QPSK	1	1	23.05	0-1.5	1.3

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Table 8-66
NR Band n12 Measured P_{Limit} Antenna 4 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.78	0	0.0
	1	40	24.67		0.0
	1	77	24.80		0.0
	36	0	24.19	0-1	0.5
	36	22	24.62	0	0.0
	36	43	24.29	0-1	0.5
	75	0	24.29		0.5
DFT-s-OFDM 16QAM	1	1	24.00	0-1	0.5
CP-OFDM QPSK	1	1	23.81	0-1.5	1.0

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8.3.3

NR Band n14

Table 8-67
NR Band n14 Measured P_{Limit} Antenna 2 - 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	24.18	0	0.0
	1	26	24.20		0.0
	1	50	24.15		0.0
	25	0	23.34	0-1	0.5
	25	14	24.25	0	0.0
	25	27	23.32	0-1	0.5
	50	0	23.28		0.5
DFT-s-OFDM 16QAM	1	1	23.31	0-1	0.5
CP-OFDM QPSK	1	1	22.88	0-1.5	1.0

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Table 8-68
NR Band n14 Measured P_{Limit} Antenna 4 - 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	24.24	0	0.0
	1	26	24.38		0.0
	1	50	24.36		0.0
	25	0	23.87	0-1	0.4
	25	14	24.41	0	0.0
	25	27	23.85	0-1	0.4
	50	0	23.79		0.4
DFT-s-OFDM 16QAM	1	1	23.90	0-1	0.4
CP-OFDM QPSK	1	1	23.43	0-1.5	0.9

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8.3.4

NR Band n26

Table 8-69
NR Band n26 Measured P_{Limit} Antenna 2 - 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	23.74	0	0.0
	1	53	23.80		0.0
	1	104	23.70		0.0
	50	0	23.75	0-1	0.1
	50	28	23.82	0	0.0
	50	56	23.76	0-1	0.1
	100	0	23.79		0.1
DFT-s-OFDM 16QAM	1	1	23.69	0-1	0.1
CP-OFDM QPSK	1	1	23.22	0-1.5	0.6

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Table 8-70
NR Band n26 Measured P_{Limit} Antenna 4 - 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	23.75	0	0.0
	1	53	23.77		0.0
	1	104	23.79		0.0
	50	0	23.80	0-1	0.0
	50	28	23.82	0	0.0
	50	56	23.75	0-1	0.0
	100	0	23.77		0.0
DFT-s-OFDM 16QAM	1	1	23.69	0-1	0.0
CP-OFDM QPSK	1	1	23.27	0-1.5	0.5

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8.3.5

NR Band n5

Table 8-71
NR Band n5 Measured P_{Limit} Antenna 2 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.74	0	0.0
	1	53	23.77		0.0
	1	104	23.78		0.0
	50	0	23.28	0-1	0.5
	50	28	23.83	0	0.0
	50	56	23.30	0-1	0.5
	100	0	23.39		0.5
DFT-s-OFDM 16QAM	1	1	23.31	0-1	0.5
CP-OFDM QPSK	1	1	22.81	0-1.5	1.0

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Table 8-72
NR Band n5 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.50	0	0.0
	1	53	23.56		0.0
	1	104	23.51		0.0
	50	0	23.48	0-1	0.0
	50	28	23.45	0	0.0
	50	56	23.41	0-1	0.0
	100	0	23.47		0.0
DFT-s-OFDM 16QAM	1	1	23.40	0-1	0.0
CP-OFDM QPSK	1	1	23.21	0-1.5	0.5

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8.3.6

NR Band n70

Table 8-73
NR Band n70 Measured P_{Limit} Antenna 1b - 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	19.11	0	0.0
	1	40	19.12		0.0
	1	77	19.18		0.0
	36	0	19.16	0-1	0.0
	36	22	19.22	0	0.0
	36	43	19.13	0-1	0.0
	75	0	19.16		0.0
DFT-s-OFDM 16QAM	1	1	19.09	0-1	0.0
CP-OFDM QPSK	1	1	19.16	0-1.5	0.0

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Table 8-74
NR Band n70 Measured P_{Limit} Antenna 2 - 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	17.50	0	0.0
	1	40	17.49		0.0
	1	77	17.48		0.0
	36	0	17.53	0-1	0.0
	36	22	17.52	0	0.0
	36	43	17.56	0-1	0.0
	75	0	17.37		0.0
DFT-s-OFDM 16QAM	1	1	17.50	0-1	0.0
CP-OFDM QPSK	1	1	17.62	0-1.5	0.0

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Table 8-75
NR Band n70 Measured P_{Limit} Antenna 3b - 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	18.58	0	0.0
	1	40	18.56		0.0
	1	77	18.01		0.0
	36	0	18.25	0-1	0.0
	36	22	18.23	0	0.0
	36	43	18.11	0-1	0.0
	75	0	18.13		0.0
DFT-s-OFDM 16QAM	1	1	18.27	0-1	0.0
CP-OFDM QPSK	1	1	18.66	0-1.5	0.0

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

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.36	0	0.0
	1	40	16.36		0.0
	1	77	16.38		0.0
	36	0	16.44	0-1	0.0
	36	22	16.40	0	0.0
	36	43	16.39	0-1	0.0
	75	0	16.31		0.0
DFT-s-OFDM 16QAM	1	1	16.01	0-1	0.0
CP-OFDM QPSK	1	1	16.56	0-1.5	0.0

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NR Band n66

Table 8-77
NR Band n66 Measured P_{Limit} Antenna 1b - 45 MHz Bandwidth

NR Band n66 45 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	19.15	0	0.0
	1	121	19.14		0.0
	1	240	19.21		0.0
	120	0	19.28	0-1	0.0
	120	61	19.16	0	0.0
	120	122	19.18	0-1	0.0
	240	0	19.17		0.0
DFT-s-OFDM 16QAM	1	1	18.97	0-1	0.0
CP-OFDM QPSK	1	1	19.14	0-1.5	0.0

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Table 8-78
NR Band n66 Measured P_{Limit} Antenna 2 - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.31	0	0.0
	1	121	16.24		0.0
	1	240	16.19		0.0
	120	0	16.27	0-1	0.0
	120	61	16.20	0	0.0
	120	122	16.30	0-1	0.0
	240	0	16.25		0.0
DFT-s-OFDM 16QAM	1	1	16.04	0-1	0.0
CP-OFDM QPSK	1	1	16.10	0-1.5	0.0

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Table 8-79
NR Band n66 Measured P_{Limit} Antenna 3b - 45 MHz Bandwidth

NR Band n66 45 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	18.27	0	0.0
	1	121	18.20		0.0
	1	240	18.25		0.0
	120	0	18.18	0-1	0.0
	120	61	18.15	0	0.0
	120	122	18.23	0-1	0.0
	240	0	18.12		0.0
DFT-s-OFDM 16QAM	1	1	17.94	0-1	0.0
CP-OFDM QPSK	1	1	18.15	0-1.5	0.0

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Table 8-80
NR Band n66 Measured P_{Limit} Antenna 4 - 45 MHz Bandwidth

NR Band n66 45 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	15.22	0	0.0
	1	121	15.14		0.0
	1	240	15.06		0.0
	120	0	15.12	0-1	0.0
	120	61	15.09	0	0.0
	120	122	15.07	0-1	0.0
	240	0	15.00		0.0
DFT-s-OFDM 16QAM	1	1	14.89	0-1	0.0
CP-OFDM QPSK	1	1	15.03	0-1.5	0.0

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NR Band n25

Table 8-81
NR Band n25 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.67	0	0.0
	1	108	17.70		0.0
	1	214	17.75		0.0
	108	0	17.68	0-1	0.0
	108	54	17.70	0	0.0
	108	108	17.77	0-1	0.0
	216	0	17.72		0.0
DFT-s-OFDM 16QAM	1	1	17.65	0-1	0.0
CP-OFDM QPSK	1	1	17.72	0-1.5	0.0

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Table 8-82
NR Band n25 Measured P_{Limit} Antenna 2 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.55	0	0.0
	1	108	16.63		0.0
	1	214	16.53		0.0
	108	0	16.65	0-1	0.0
	108	54	16.57	0	0.0
	108	108	16.62	0-1	0.0
	216	0	16.59		0.0
DFT-s-OFDM 16QAM	1	1	16.49	0-1	0.0
CP-OFDM QPSK	1	1	16.62	0-1.5	0.0

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Table 8-83
NR Band n25 Measured P_{Limit} Antenna 3b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.20	0	0.0
	1	108	18.09		0.0
	1	214	17.98		0.0
	108	0	18.22	0-1	0.0
	108	54	18.16	0	0.0
	108	108	17.99	0-1	0.0
	216	0	18.17		0.0
DFT-s-OFDM 16QAM	1	1	17.95	0-1	0.0
CP-OFDM QPSK	1	1	18.18	0-1.5	0.0

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Table 8-84
NR Band n25 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.27	0	0.0
	1	108	15.31		0.0
	1	214	15.24		0.0
	108	0	15.29	0-1	0.0
	108	54	15.30	0	0.0
	108	108	15.15	0-1	0.0
	216	0	15.29		0.0
DFT-s-OFDM 16QAM	1	1	15.20	0-1	0.0
CP-OFDM QPSK	1	1	15.68	0-1.5	0.0

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NR Band n30

Table 8-85
NR Band n30 Measured P_{Limit} Antenna 1b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.22	0	0.0
	1	26	20.28		0.0
	1	50	20.36		0.0
	25	0	20.21	0-1	0.0
	25	14	20.27	0	0.0
	25	27	20.37	0-1	0.0
	50	0	20.25		0.0
DFT-s-OFDM 16QAM	1	1	20.27	0-1	0.0
CP-OFDM QPSK	1	1	20.38	0-1.5	0.0

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Table 8-86
NR Band n30 Measured P_{Limit} Antenna 2 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.65	0	0.0
	1	26	18.46		0.0
	1	50	18.50		0.0
	25	0	18.48	0-1	0.0
	25	14	18.56	0	0.0
	25	27	18.54	0-1	0.0
	50	0	18.53		0.0
DFT-s-OFDM 16QAM	1	1	18.39	0-1	0.0
CP-OFDM QPSK	1	1	18.68	0-1.5	0.0

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Table 8-87
NR Band n30 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.96	0	0.0
	1	26	17.02		0.0
	1	50	17.05		0.0
	25	0	17.10	0-1	0.0
	25	14	16.99	0	0.0
	25	27	17.06	0-1	0.0
	50	0	17.04		0.0
DFT-s-OFDM 16QAM	1	1	16.83	0-1	0.0
CP-OFDM QPSK	1	1	17.03	0-1.5	0.0

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Table 8-88
NR Band n30 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.88	0	0.0
	1	26	18.98		0.0
	1	50	18.96		0.0
	25	0	18.92	0-1	0.0
	25	14	19.01	0	0.0
	25	27	19.06	0-1	0.0
	50	0	18.95		0.0
DFT-s-OFDM 16QAM	1	1	18.75	0-1	0.0
CP-OFDM QPSK	1	1	19.03	0-1.5	0.0

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NR Band n7

Table 8-89
NR Band n7 Measured P_{Limit} Antenna 1b - 50 MHz Bandwidth

NR Band n7 50 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	19.35	0	0.0
	1	135	19.19		0.0
	1	268	19.15		0.0
	135	0	19.24	0-1	0.0
	135	68	19.24	0	0.0
	135	135	19.32	0-1	0.0
	270	0	19.31		0.0
DFT-s-OFDM 16QAM	1	1	19.06	0-1	0.0
CP-OFDM QPSK	1	1	19.07	0-1.5	0.0

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Table 8-90
NR Band n7 Measured P_{Limit} Antenna 2 - 50 MHz Bandwidth

NR Band n7 50 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	17.86	0	0.0
	1	135	18.06		0.0
	1	268	17.73		0.0
	135	0	18.13	0-1	0.0
	135	68	18.00	0	0.0
	135	135	18.06	0-1	0.0
	270	0	18.05		0.0
DFT-s-OFDM 16QAM	1	1	17.69	0-1	0.0
CP-OFDM QPSK	1	1	18.04	0-1.5	0.0

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Table 8-91
NR Band n7 Measured P_{Limit} Antenna 3b - 50 MHz Bandwidth

NR Band n7 50 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	18.75	0	0.0
	1	135	18.60		0.0
	1	268	18.62		0.0
	135	0	18.68	0-1	0.0
	135	68	18.56	0	0.0
	135	135	18.60	0-1	0.0
	270	0	18.62		0.0
DFT-s-OFDM 16QAM	1	1	18.43	0-1	0.0
CP-OFDM QPSK	1	1	18.61	0-1.5	0.0

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Table 8-92
NR Band n7 Measured P_{Limit} Antenna 4 - 50 MHz Bandwidth

NR Band n7 50 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	18.90	0	0.0
	1	135	19.07		0.0
	1	268	18.93		0.0
	135	0	18.97	0-1	0.0
	135	68	19.05	0	0.0
	135	135	18.98	0-1	0.0
	270	0	18.92		0.0
DFT-s-OFDM 16QAM	1	1	18.77	0-1	0.0
CP-OFDM QPSK	1	1	18.97	0-1.5	0.0

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NR Band n41

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

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.63	0	0.0
	1	137	19.25		0.0
	1	271	19.01		0.0
	135	0	19.09	0-1	0.0
	135	69	19.07	0	0.0
	135	138	19.26	0-1	0.0
	270	0	19.23		0.0
DFT-s-OFDM 16QAM	1	1	18.60	0-1	0.0
CP-OFDM QPSK	1	1	18.96	0-1.5	0.0

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

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.85	0	0.0
	1	137	19.05		0.0
	1	271	18.92		0.0
	135	0	19.00	0-1	0.0
	135	69	18.94	0	0.0
	135	138	19.07	0-1	0.0
	270	0	19.02		0.0
DFT-s-OFDM 16QAM	1	1	18.75	0-1	0.0
CP-OFDM QPSK	1	1	18.97	0-1.5	0.0

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

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.59	0	0.0
	1	137	19.03		0.0
	1	271	18.70		0.0
	135	0	18.91	0-1	0.0
	135	69	18.89	0	0.0
	135	138	18.98	0-1	0.0
	270	0	18.70		0.0
DFT-s-OFDM 16QAM	1	1	18.55	0-1	0.0
CP-OFDM QPSK	1	1	18.79	0-1.5	0.0

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

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.23	0	0.0
	1	137	18.63		0.0
	1	271	18.51		0.0
	135	0	18.47	0-1	0.0
	135	69	18.49	0	0.0
	135	138	18.61	0-1	0.0
	270	0	18.52		0.0
DFT-s-OFDM 16QAM	1	1	18.12	0-1	0.0
CP-OFDM QPSK	1	1	18.50	0-1.5	0.0

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8.3.12

NR Band n48

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

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.95	20.05	19.71	0	0.0
	1	53	19.99	19.87	19.70		0.0
	1	104	20.15	19.84	19.72		0.0
	50	0	19.67	19.66	19.23	0-1	0.5
	50	28	20.13	20.01	19.93	0	0.0
	50	56	19.58	19.52	19.26	0-1	0.5
	100	0	19.60	19.55	19.42		0.5
DFT-s-OFDM 16QAM	1	1	19.45	19.55	19.33	0-1	0.5
CP-OFDM QPSK	1	1	19.23	19.11	19.12	0-1.5	1.0

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

			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	16.24	16.35	16.09	0	0.0
	1	53	16.36	16.29	16.14		0.0
	1	104	16.40	16.27	16.17		0.0
	50	0	15.44	15.39	15.14	0-1	1.0
	50	28	16.41	16.29	16.18	0	0.0
	50	56	15.52	15.44	15.32	0-1	1.0
	100	0	15.50	15.42	15.27		1.0
DFT-s-OFDM 16QAM	1	1	15.39	15.35	15.19	0-1	1.0
CP-OFDM QPSK	1	1	14.98	15.04	14.92	0-1.5	1.5

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

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	18.17	18.56	18.10	0	0.0
	1	53	18.38	18.35	18.09		0.0
	1	104	18.43	18.20	18.24		0.0
	50	0	17.47	17.55	17.34	0-1	1.0
	50	28	18.42	18.47	18.16	0	0.0
	50	56	17.45	17.49	17.32	0-1	1.0
	100	0	17.42	17.40	17.30		1.0
DFT-s-OFDM 16QAM	1	1	17.27	17.32	17.25	0-1	1.0
CP-OFDM QPSK	1	1	16.92	16.98	16.88	0-1.5	1.5

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

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	18.34	18.29	18.22	0	0.0
	1	53	18.39	18.31	18.31		0.0
	1	104	18.42	18.24	18.27		0.0
	50	0	17.40	17.35	17.24	0-1	1.0
	50	28	18.46	18.25	18.31	0	0.0
	50	56	17.37	17.32	17.15	0-1	1.0
	100	0	17.35	17.30	17.13		1.0
DFT-s-OFDM 16QAM	1	1	17.20	17.14	17.07	0-1	1.0
CP-OFDM QPSK	1	1	16.87	16.83	16.75	0-1.5	1.5

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8.3.13

NR Band n77 DoD

Table 8-101

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

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.38	0	0.0
	1	137	20.65		0.0
	1	271	20.37		0.0
	135	0	20.72	0-1	0.0
	135	69	20.57	0	0.0
	135	138	20.55	0-1	0.0
	270	0	20.60		0.0
DFT-s-OFDM 16QAM	1	1	20.32	0-1	0.0
CP-OFDM QPSK	1	1	20.76	0-1.5	0.0

Table 8-102

NR Band n77 DoD Measured P_{Limit} Antenna 2 - 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	18.07	0	0.0
	1	137	18.10		0.0
	1	271	17.97		0.0
	135	0	18.32	0-1	0.0
	135	69	18.16	0	0.0
	135	138	18.03	0-1	0.0
	270	0	18.05		0.0
DFT-s-OFDM 16QAM	1	1	18.04	0-1	0.0
CP-OFDM QPSK	1	1	18.28	0-1.5	0.0

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Table 8-103
NR Band n77 DoD Measured P_{Limit} Antenna 3a - 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	17.40	0	0.0
	1	137	17.55		0.0
	1	271	17.35		0.0
	135	0	17.50	0-1	0.0
	135	69	17.33	0	0.0
	135	138	17.37	0-1	0.0
	270	0	17.46		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

Table 8-104
NR Band n77 DoD Measured P_{Limit} Antenna 4 - 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	19.09	0	0.0
	1	137	19.27		0.0
	1	271	18.89		0.0
	135	0	19.30	0-1	0.0
	135	69	19.17	0	0.0
	135	138	19.28	0-1	0.0
	270	0	19.17		0.0
DFT-s-OFDM 16QAM	1	1	19.10	0-1	0.0
CP-OFDM QPSK	1	1	19.25	0-1.5	0.0

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8.3.14

NR Band n77

Table 8-105

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

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.69	0	0.0
	1	137	19.82		0.0
	1	271	19.61		0.0
	135	0	19.92	0-1	0.0
	135	69	19.83	0	0.0
	135	138	19.63	0-1	0.0
	270	0	19.80		0.0
DFT-s-OFDM 16QAM	1	1	19.78	0-1	0.0
CP-OFDM QPSK	1	1	20.05	0-1.5	0.0
NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			662000 (3930 MHz)		
DFT-s-OFDM QPSK	1	1	18.85	0	0.0
	1	137	19.17		0.0
	1	271	18.86		0.0
	135	0	18.85	0-1	0.0
	135	69	19.10	0	0.0
	135	138	18.76	0-1	0.0
	270	0	18.99		0.0
DFT-s-OFDM 16QAM	1	1	18.75	0-1	0.0
CP-OFDM QPSK	1	1	18.90	0-1.5	0.0

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

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.66	0	0.0
	1	137	17.80		0.0
	1	271	17.43		0.0
	135	0	17.91	0-1	0.0
	135	69	17.72	0	0.0
	135	138	17.56	0-1	0.0
	270	0	17.75		0.0
DFT-s-OFDM 16QAM	1	1	17.42	0-1	0.0
CP-OFDM QPSK	1	1	17.85	0-1.5	0.0
NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	662000 (3930 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM QPSK	1	1	17.69	0	0.0
	1	137	18.04		0.0
	1	271	17.76		0.0
	135	0	17.84	0-1	0.0
	135	69	17.60	0	0.0
	135	138	17.80	0-1	0.0
	270	0	17.81		0.0
DFT-s-OFDM 16QAM	1	1	17.53	0-1	0.0
CP-OFDM QPSK	1	1	18.10	0-1.5	0.0

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

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.25	0	0.0
	1	137	18.39		0.0
	1	271	17.95		0.0
	135	0	18.42	0-1	0.0
	135	69	18.18	0	0.0
	135	138	17.98	0-1	0.0
	270	0	18.30		0.0
DFT-s-OFDM 16QAM	1	1	18.05	0-1	0.0
CP-OFDM QPSK	1	1	18.38	0-1.5	0.0
NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			662000 (3930 MHz)		
DFT-s-OFDM QPSK	1	1	16.90	0	0.0
	1	137	17.20		0.0
	1	271	17.03		0.0
	135	0	17.38	0-1	0.0
	135	69	17.17	0	0.0
	135	138	17.20	0-1	0.0
	270	0	17.10		0.0
DFT-s-OFDM 16QAM	1	1	17.06	0-1	0.0
CP-OFDM QPSK	1	1	16.97	0-1.5	0.0

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

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.97	0	0.0
	1	137	18.27		0.0
	1	271	17.65		0.0
	135	0	18.27	0-1	0.0
	135	69	18.24	0	0.0
	135	138	18.18	0-1	0.0
	270	0	18.26		0.0
DFT-s-OFDM 16QAM	1	1	18.14	0-1	0.0
CP-OFDM QPSK	1	1	18.11	0-1.5	0.0
NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			662000 (3930 MHz)		
DFT-s-OFDM QPSK	1	1	18.80	0	0.0
	1	137	19.05		0.0
	1	271	18.85		0.0
	135	0	19.15	0-1	0.0
	135	69	18.96	0	0.0
	135	138	18.93	0-1	0.0
	270	0	18.96		0.0
DFT-s-OFDM 16QAM	1	1	18.77	0-1	0.0
CP-OFDM QPSK	1	1	19.11	0-1.5	0.0

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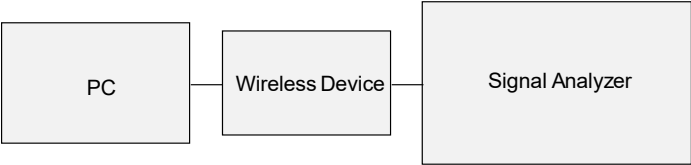


Figure 8-3
Power Measurement Setup

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8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-109
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	18.88
2437	6	18.71
2462	11	18.82
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2417	2	18.65
2437	6	18.50
2452	9	18.62
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2417	2	18.65
2437	6	18.50
2452	9	18.62
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2422	3	18.16
2437	6	18.18
2452	9	18.36

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Table 8-110
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	19.65
2437	6	19.72
2462	11	19.63
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2427	4	19.74
2437	6	19.69
2447	8	19.70
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2427	4	19.74
2437	6	19.69
2447	8	19.70
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2427	4	19.64
2437	6	19.59
2447	8	19.66

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8.5 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-111

2.4 GHz WLAN Reduced Average RF Power – Antenna 3a

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.85
2437	6	15.73
2462	11	15.80

Table 8-112

2.4 GHz WLAN Reduced Average RF Power – Antenna 1a

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.71
2437	6	16.95
2462	11	16.69

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8.6 5 GHz WLAN Maximum Time-Averaged Conducted Powers

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

5GHz WIFI (40MHz 802.11n SISO ANT 5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.00
	5230	46	18.63
UNII-2A	5270	54	18.65
	5310	62	15.51
UNII-3	5755	151	17.28
	5795	159	17.31
5GHz WIFI (80MHz 802.11ac SISO ANT 5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.86
	5610	122	17.15
	5690	138	17.27
5GHz WIFI (40MHz 802.11ac SISO ANT 5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.30
	5230	46	18.72
UNII-2A	5270	54	18.82
	5310	62	15.70
UNII-3	5755	151	17.43
	5795	159	17.45
5GHz WIFI (40MHz 802.11ax SISO ANT 5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.90
	5230	46	18.79
UNII-2A	5270	54	18.90
	5310	62	15.78
UNII-3	5755	151	17.51
	5795	159	17.52
5GHz WIFI (80MHz 802.11ax SISO ANT 5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.06
	5610	122	17.25
	5690	138	17.12

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Table 8-114
5 GHz WLAN Maximum Average RF Power – Antenna 3b

5GHz WIFI (40MHz 802.11n SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.47
	5230	46	15.94
UNII-2A	5270	54	16.13
	5310	62	15.89
5GHz WIFI (80MHz 802.11ac SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.93
	5610	122	15.07
	5690	138	15.23
UNII-3	5775	155	14.48
5GHz WIFI (40MHz 802.11ac SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.45
	5230	46	15.92
UNII-2A	5270	54	15.94
	5310	62	16.10
5GHz WIFI (40MHz 802.11ax SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.08
	5230	46	16.30
UNII-2A	5270	54	16.29
	5310	62	16.10
5GHz WIFI (80MHz 802.11ax SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.19
	5610	122	14.25
	5690	138	14.28
UNII-3	5775	155	14.54

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Table 8-115
5 GHz WLAN Maximum Average RF Power – Antenna 1b

5GHz WIFI (40MHz 802.11n SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.56
	5230	46	16.07
UNII-2A	5270	54	16.15
	5310	62	16.02
5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.16
	5610	122	16.04
	5690	138	16.03
UNII-3	5775	155	15.12
5GHz WIFI (40MHz 802.11ac SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.58
	5230	46	15.99
UNII-2A	5270	54	15.97
	5310	62	15.99
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.82
	5610	122	16.06
	5690	138	15.85
UNII-3	5775	155	15.09
5GHz WIFI (40MHz 802.11ax SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.09
	5230	46	16.08
UNII-2A	5270	54	16.06
	5310	62	15.81

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8.7 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-116

5 GHz WLAN Reduced Average RF Power – Antenna 5T

5GHz WIFI (80MHz 802.11ac SISO ANT 5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.65
	5610	122	14.67
	5690	138	14.68
UNII-3	5775	155	14.68

Table 8-117

5 GHz WLAN Reduced Average RF Power – Antenna 3b

5GHz WIFI (80MHz 802.11ac SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5290	58	13.59
UNII-2C	5530	106	11.29
	5610	122	11.42
	5690	138	11.38
5GHz WIFI (80MHz 802.11ac SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-3	5775	155	11.73

Table 8-118

5 GHz WLAN Reduced Average RF Power – Antenna 1b

5GHz WIFI (40MHz 802.11n SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	14.84
	5310	62	14.81
5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.89
	5610	122	12.91
	5690	138	12.94
UNII-3	5775	155	11.95

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8.8 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-119

6 GHz WLAN Maximum Average RF Power – Antenna 5T

6GHz WIFI (160MHz 802.11ax SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.52
	6345	79	11.13
UNII-6	6505	111	11.06
UNII-7	6665	143	10.82
UNII-8	6985	207	9.99

Table 8-120

6 GHz WLAN Maximum Average RF Power – Antenna 3b

6GHz WIFI (160MHz 802.11ax SISO ANT 3b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	10.77
	6345	79	13.85
UNII-6	6505	111	14.78
UNII-7	6665	143	14.69
	6825	175	14.82
UNII-8	6985	207	12.01

Table 8-121

6 GHz WLAN Maximum Average RF Power – Antenna 1b

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.68
	6185	47	9.64
	6345	79	10.51
II-6	6505	111	9.40
UNII-7	6665	143	10.85
II-8	6985	207	11.60

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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.

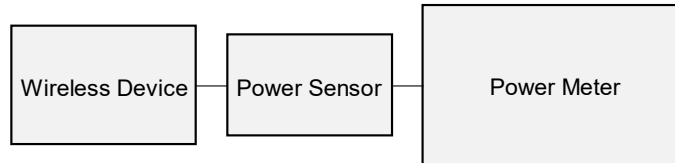


Figure 8-4
Power Measurement Setup

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8.10 Bluetooth Maximum Conducted Powers

Table 8-122
Bluetooth Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.01	63.241
2441	GFSK	1.0	39	18.35	68.391
2480	GFSK	1.0	78	18.21	66.222

Table 8-123
Bluetooth Average RF Power – Antenna 1a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.74	94.189
2441	GFSK	1.0	39	19.82	95.940
2480	GFSK	1.0	78	19.59	90.991

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8.11 Bluetooth Reduced Conducted Powers

Table 8-124
Bluetooth Reduced Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	15.41	34.754
2441	GFSK	1.0	39	15.71	37.239
2480	GFSK	1.0	78	15.49	35.400

Table 8-125
Bluetooth Reduced Average RF Power – Antenna 1a

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	16.71	46.881
2480	GFSK	1.0	78	16.82	48.084

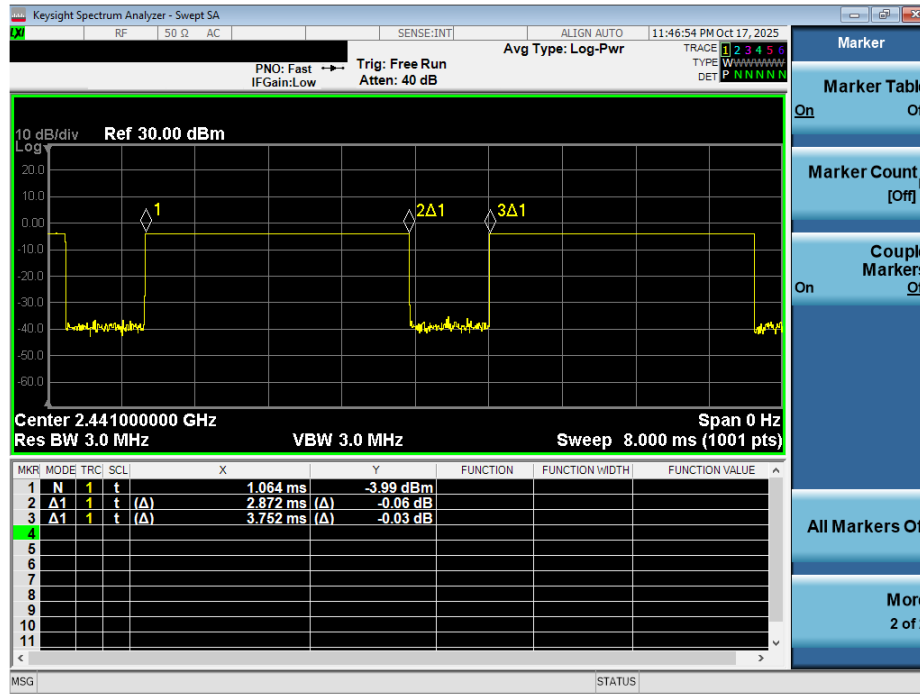
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8.12 Bluetooth Duty Cycle Plots

Figure 8-5
Bluetooth Transmission Plot – Antenna 3a



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

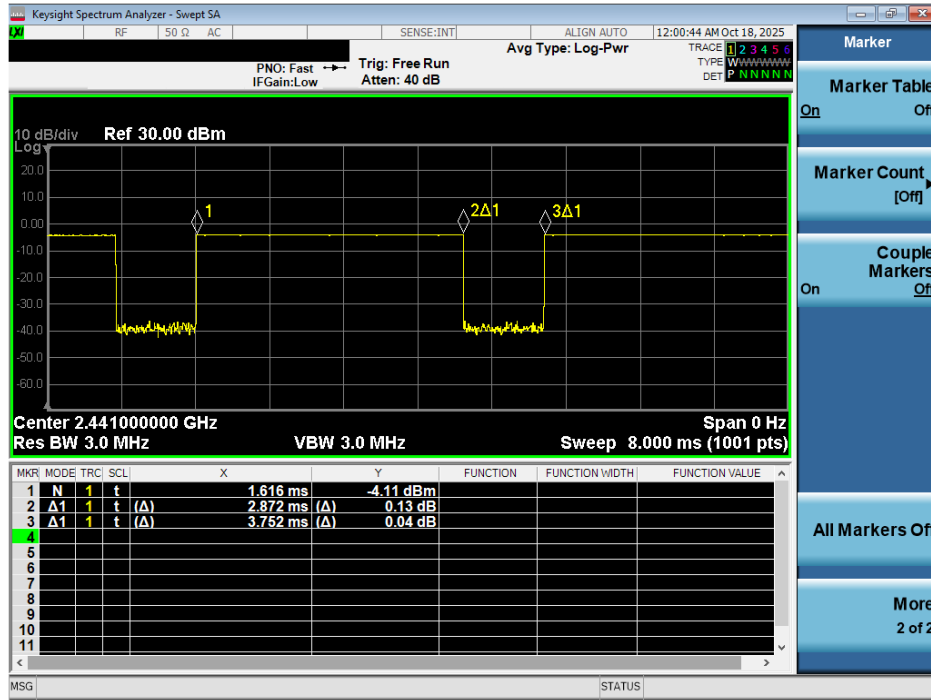
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.55\%$$

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Figure 8-6
Bluetooth Transmission Plot – Antenna 1a



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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.55\%$$

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8.13 802.15.4 Maximum Conducted Powers

Table 8-126
802.15.4 Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	18.20	66.069
2440	O-QPSK	1.0	18	18.56	71.779
2475	O-QPSK	1.0	25	18.21	66.222

Table 8-127
802.15.4 Average RF Power – Antenna 1a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	19.80	95.499
2440	O-QPSK	1.0	18	19.87	97.051
2475	O-QPSK	1.0	25	19.85	96.605

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8.14 802.15.4 Reduced Conducted Powers

Table 8-128
802.15.4 Reduced Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	15.71	37.239
2440	O-QPSK	1.0	18	15.85	38.459
2475	O-QPSK	1.0	25	15.68	36.983

Table 8-129
802.15.4 Reduced Average RF Power – Antenna 1a

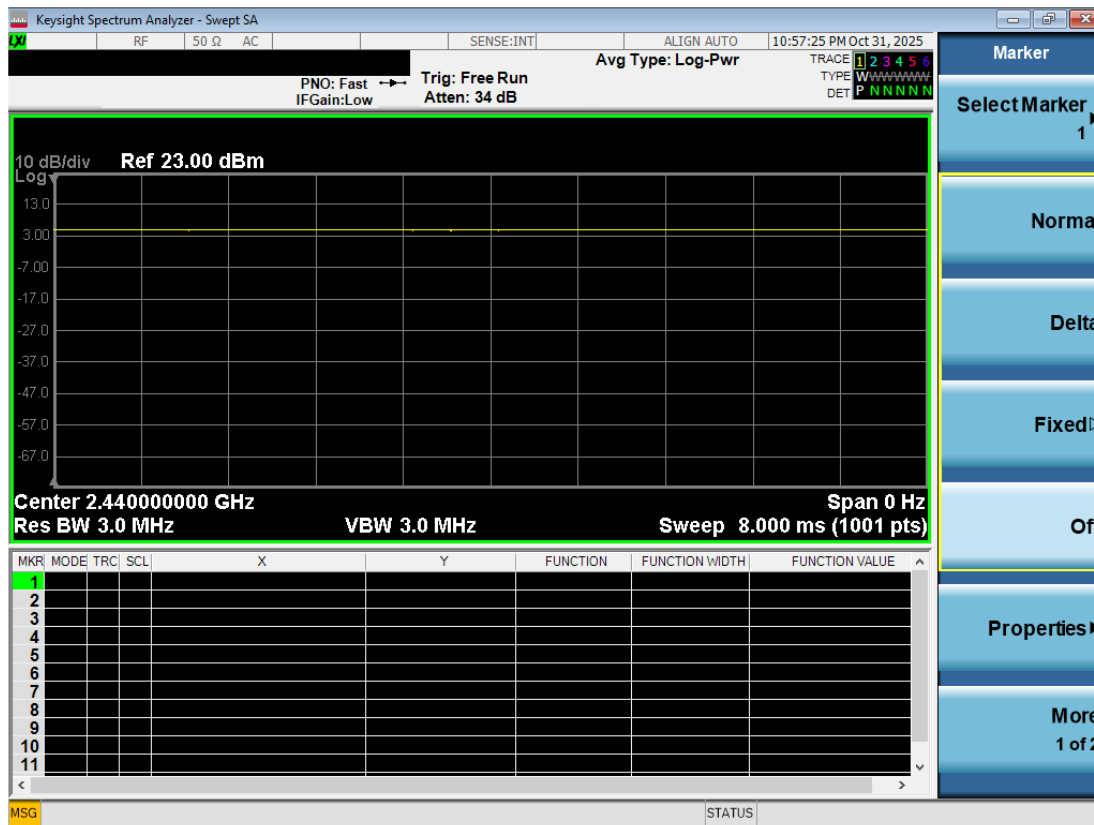
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	16.77	47.534
2440	O-QPSK	1.0	18	16.85	48.417
2475	O-QPSK	1.0	25	16.89	48.865

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8.15 802.15.4 Duty Cycle Plots

Figure 8-7
802.15.4 Transmission Plot – Antenna 3a

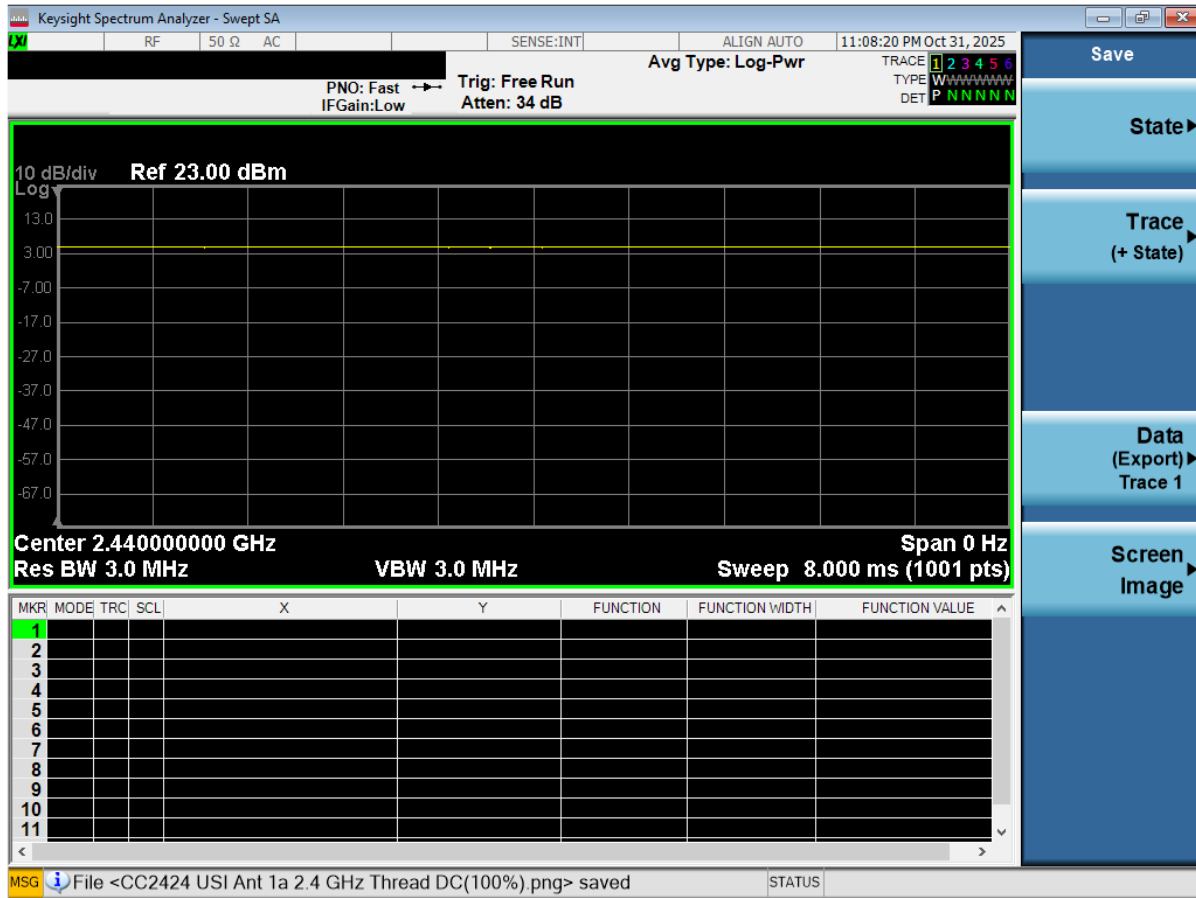


Equation 8-3
802.15.4 Duty Cycle Calculation – Antenna 3a

Duty Cycle = 100%

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Figure 8-8
802.15.4 Transmission Plot – Antenna 1a



Equation 8-4
802.15.4 Duty Cycle Calculation – Antenna 1a

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

8.16 Notes for Bluetooth/802.15.4

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

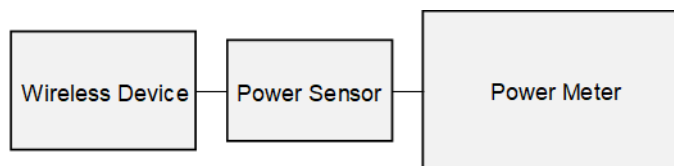


Figure 8-9
Power Measurement Setup

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8.17 NB UNII Maximum Conducted Powers

Table 8-130
NB UNII Average RF Power – Antenna 5T

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	13.14
		5204	13.17
		5245	13.21
BDR	U-NII 3	5733	18.26
		5789	18.42
		5844	18.45
HDRPL8	U-NII 5	6109	-3.09
		6186	-2.77
		6263	-3.18
		6340	-3.29
		6417	-3.79

Table 8-131
NB UNII Average RF Power – Antenna 3b

Type	Band	Frequency	Average
HDR8	U-NII 1	5162	11.46
		5204	11.47
		5245	11.51
BDR	U-NII 3	5733	14.31
		5789	14.30
		5844	14.38
HDRPL8	U-NII 5	6109	0.43
		6186	0.44
		6263	0.55
		6340	0.42
		6417	0.21

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Table 8-132
NB UNII Average RF Power – Antenna 1b

Type	Band	Frequency	Average
LE2M	U-NII 1	5162	9.77
		5204	9.82
		5245	9.73
BDR	U-NII 3	5733	15.26
		5789	15.57
		5844	15.33
HDRPL8	U-NII 5	6109	-0.12
		6186	0.12
		6263	0.21
		6340	0.11
		6417	0.21

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8.18 NB UNII Reduced Conducted Powers

Table 8-133

NB UNII Reduced Average RF Power – Antenna 5T

Type	Band	Frequency	Average
BDR	U-NII 3	5733	14.88
		5789	14.84
		5844	15.05

Table 8-134

NB UNII Reduced Average RF Power – Antenna 3b

Type	Band	Frequency	Average
BDR	U-NII 3	5733	11.22
		5789	11.26
		5844	11.31

Table 8-135

NB UNII Reduced Average RF Power – Antenna 1b

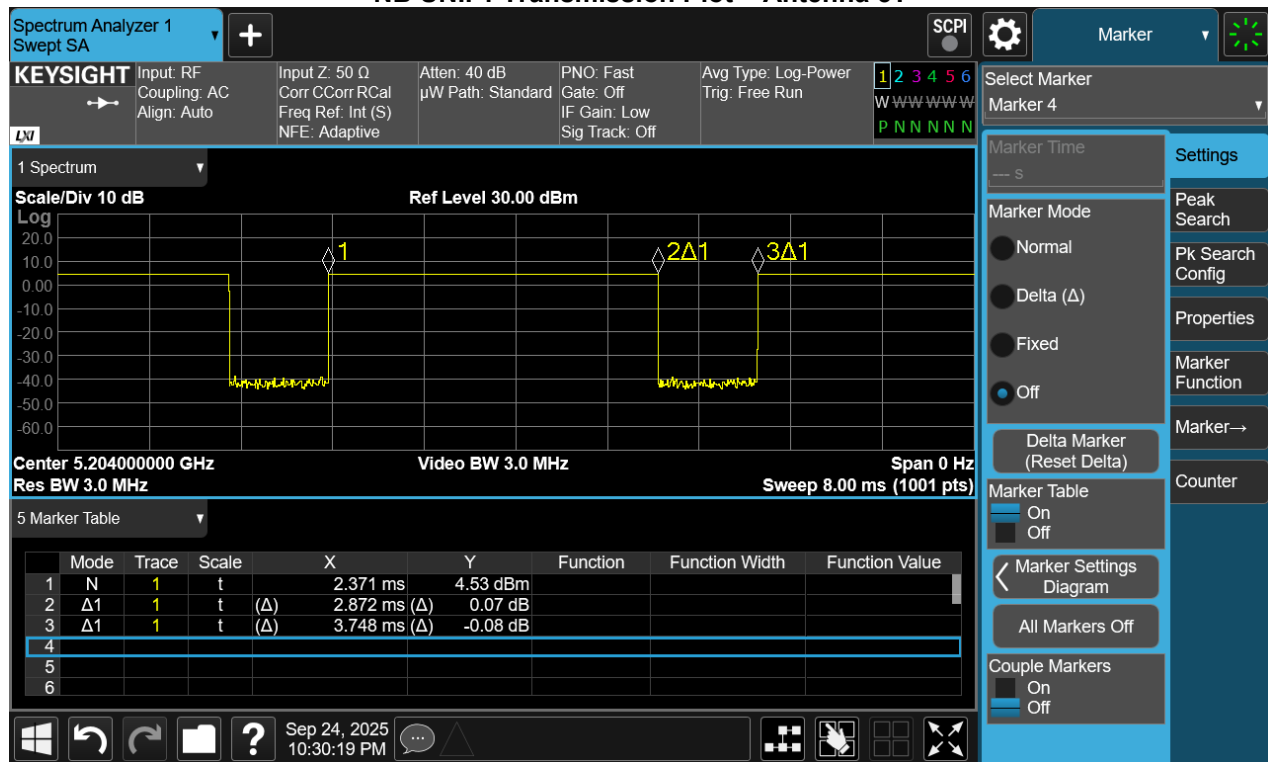
Type	Band	Frequency	Average
BDR	U-NII 3	5733	13.95
		5789	14.10
		5844	13.98

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8.19 NB UNII Duty Cycle Plots

Figure 8-10
NB UNII 1 Transmission Plot – Antenna 5T



Equation 8-5
NB UNII 1 Duty Cycle Calculation – Antenna 5T

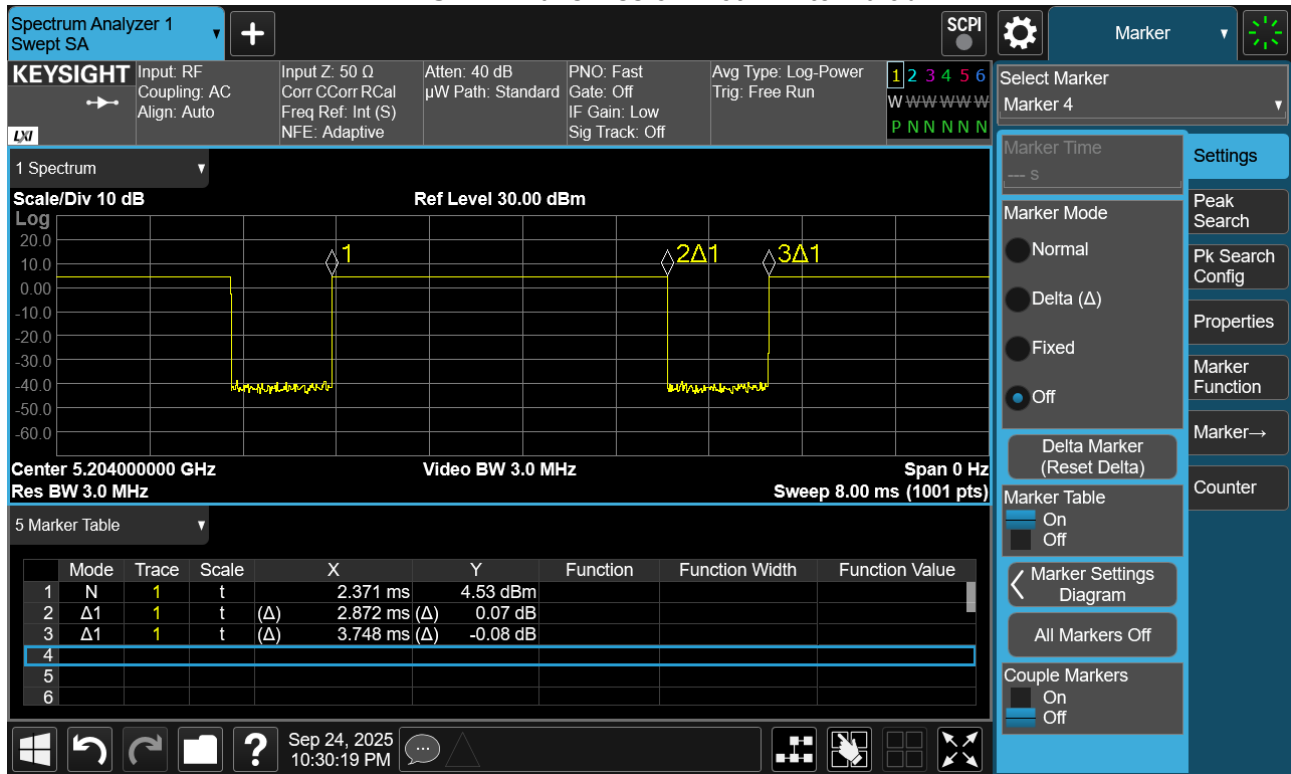
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.63\%$$

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Figure 8-11
NB UNII 1 Transmission Plot – Antenna 3b



Equation 8-6
NB UNII 1 Duty Cycle Calculation – Antenna 3b

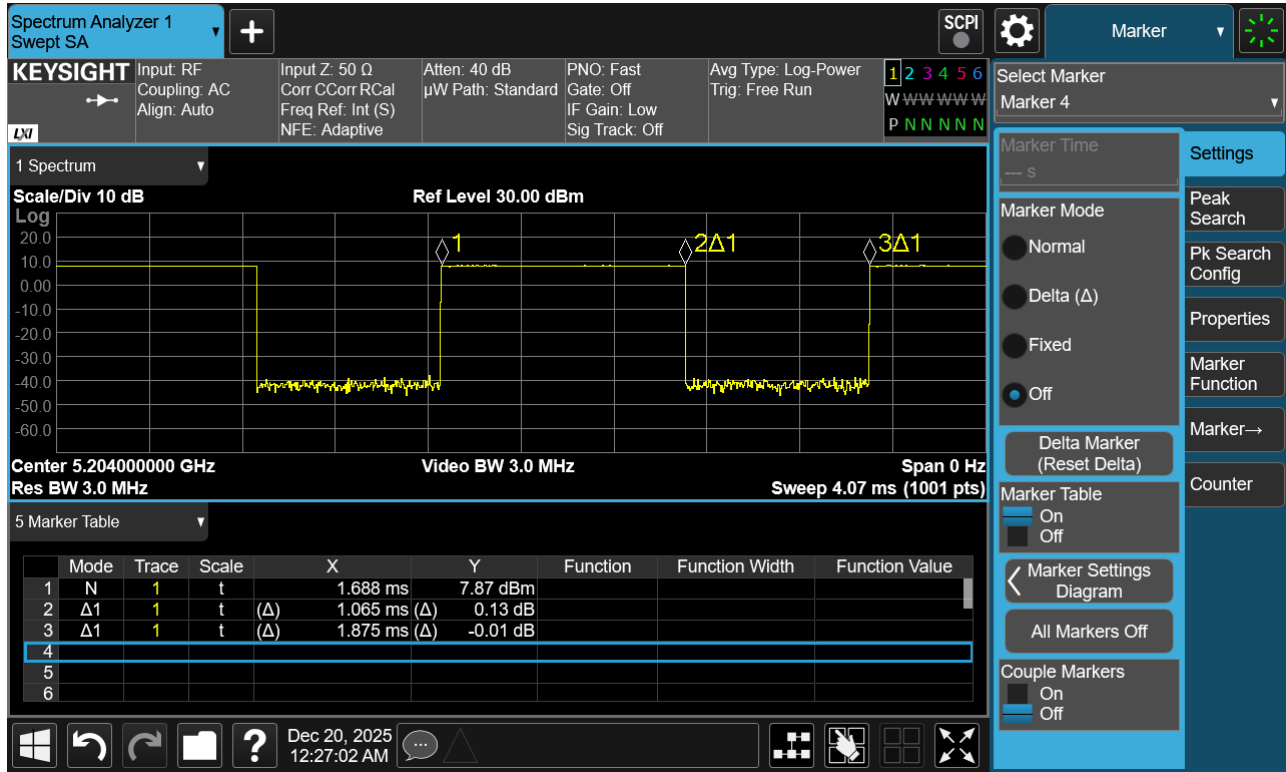
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.63\%$$

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Figure 8-12
NB UNII 1 Transmission Plot – Antenna 1b



Equation 8-7
NB UNII 1 Duty Cycle Calculation – Antenna 1b

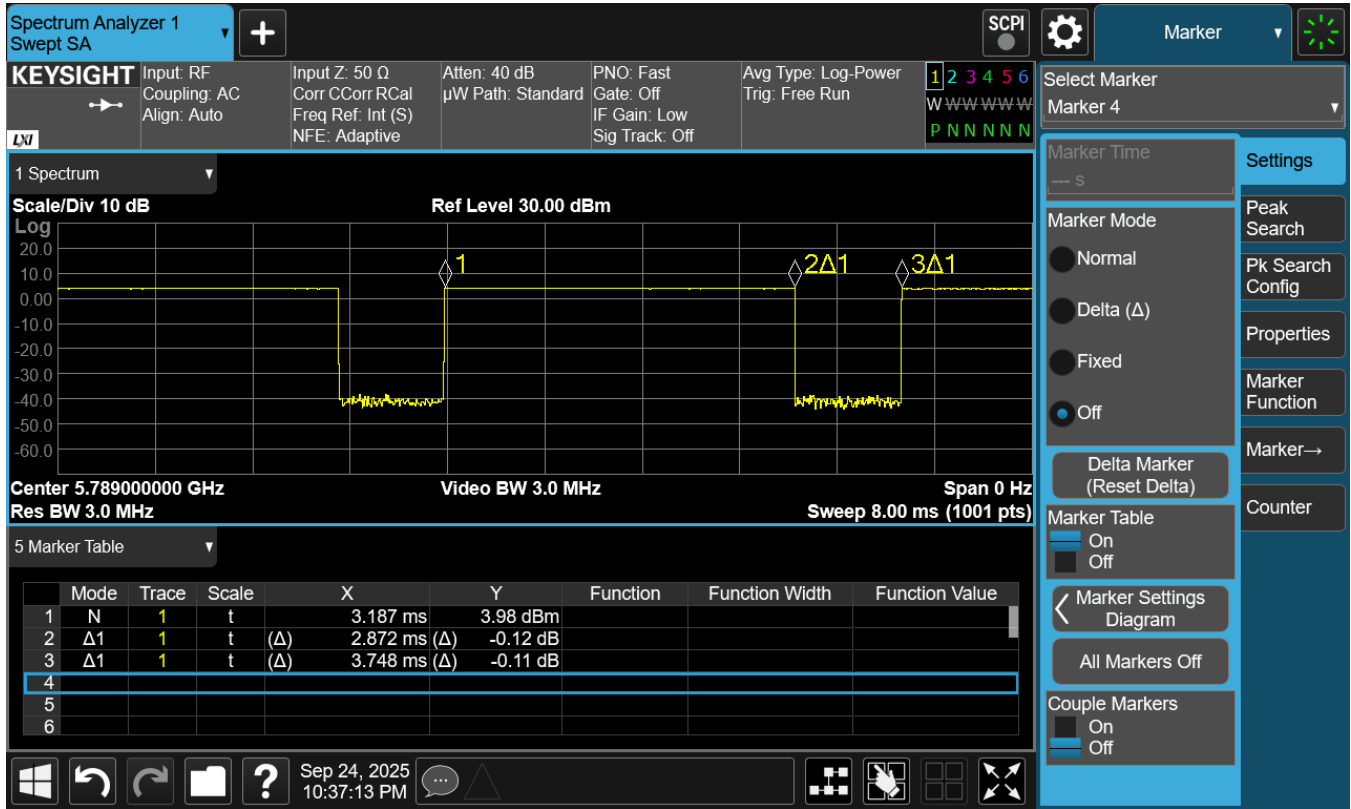
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{1.065 \text{ ms}}{1.875 \text{ ms}} * 100\% = 56.80\%$$

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Figure 8-13
NB UNII 3 Transmission Plot – Antenna 5T



Equation 8-8
NB UNII 3 Duty Cycle Calculation – Antenna 5T

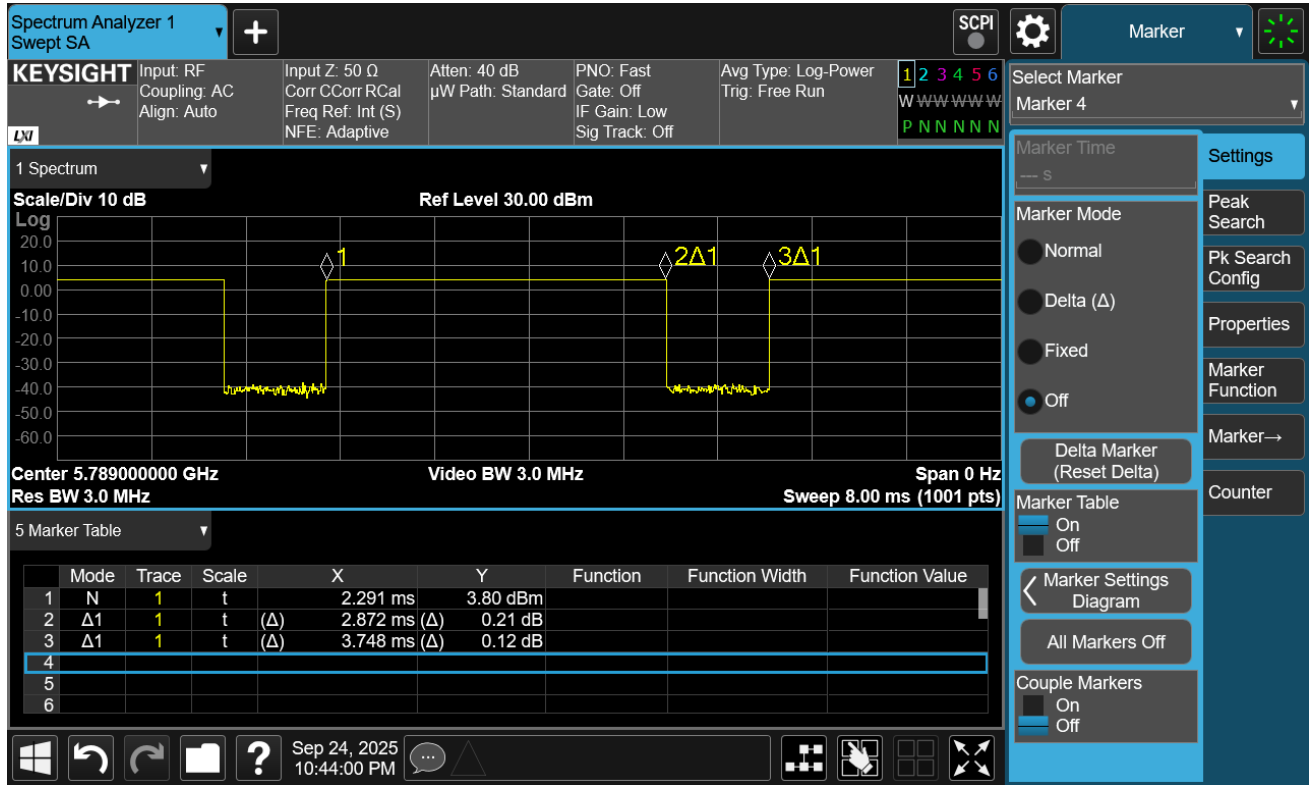
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.63\%$$

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Figure 8-14
NB UNII 3 Transmission Plot – Antenna 3b



Equation 8-9
NB UNII 3 Duty Cycle Calculation – Antenna 3b

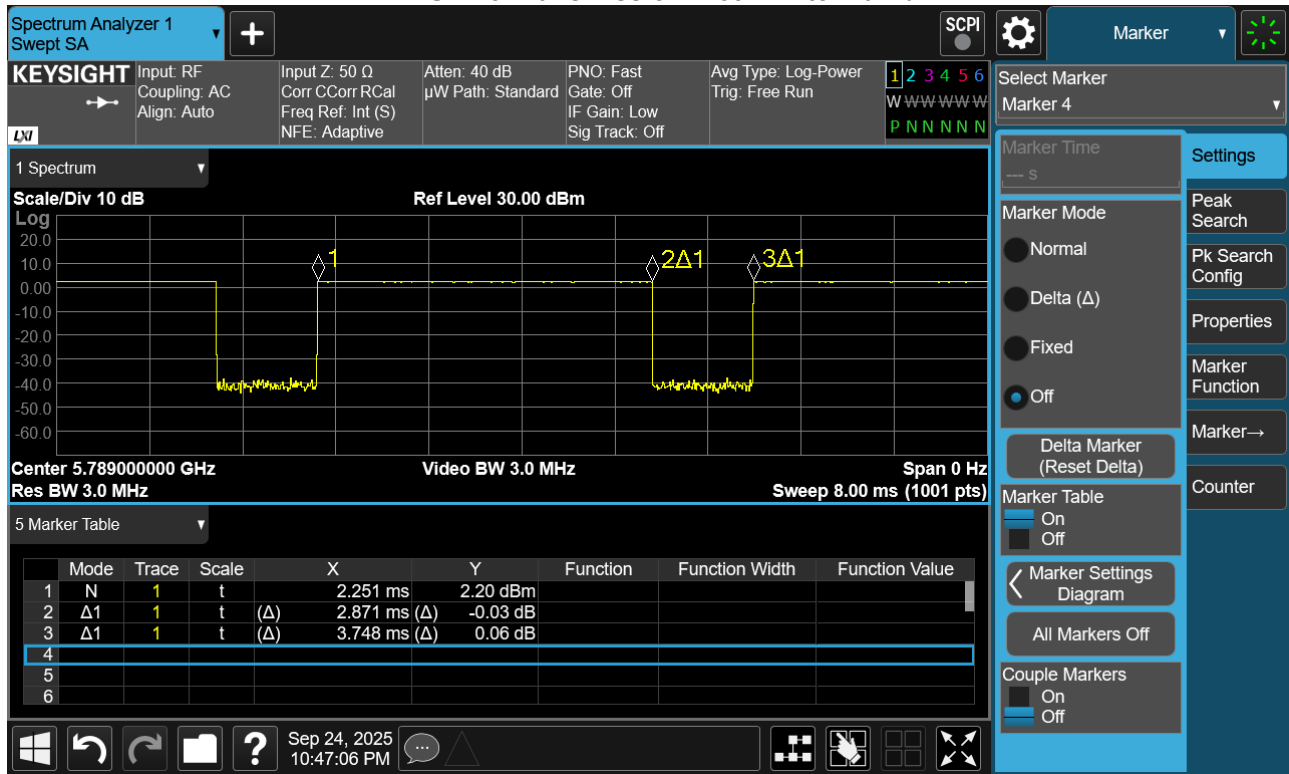
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.63\%$$

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Figure 8-15
NB UNII 3 Transmission Plot – Antenna 1b



Equation 8-10
NB UNII 3 Duty Cycle Calculation – Antenna 1b

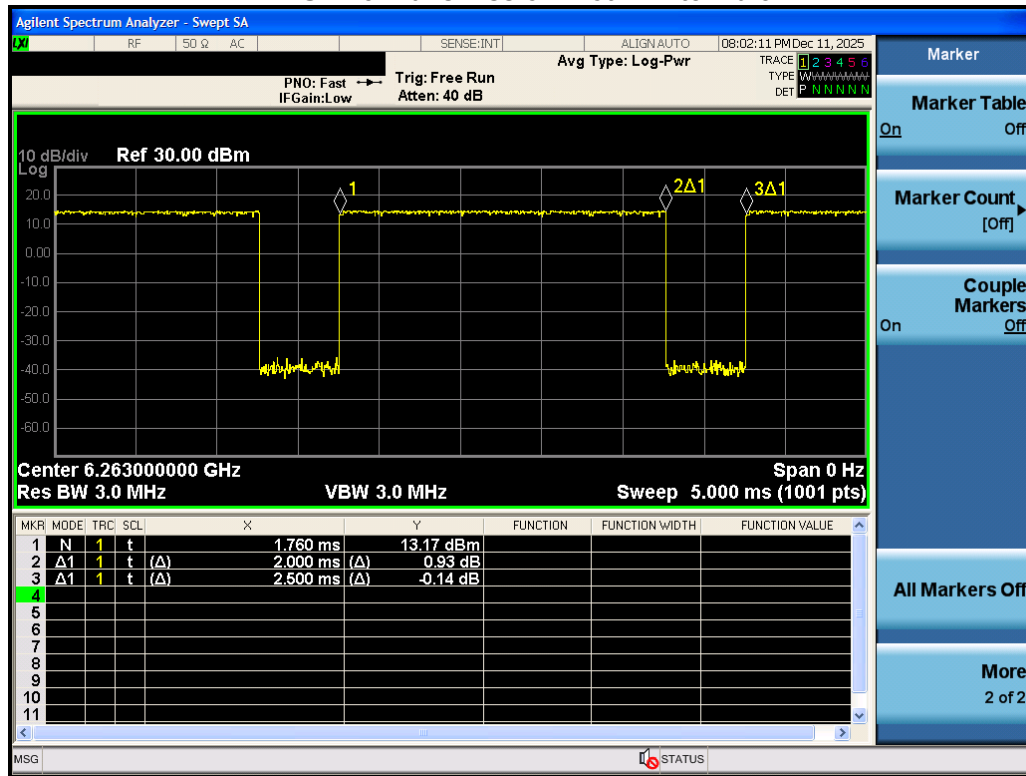
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.871 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.60\%$$

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Figure 8-16
NB UNII 5 Transmission Plot – Antenna 5T



Equation 8-11
NB UNII 5 Duty Cycle Calculation – Antenna 5T

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

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Figure 8-17

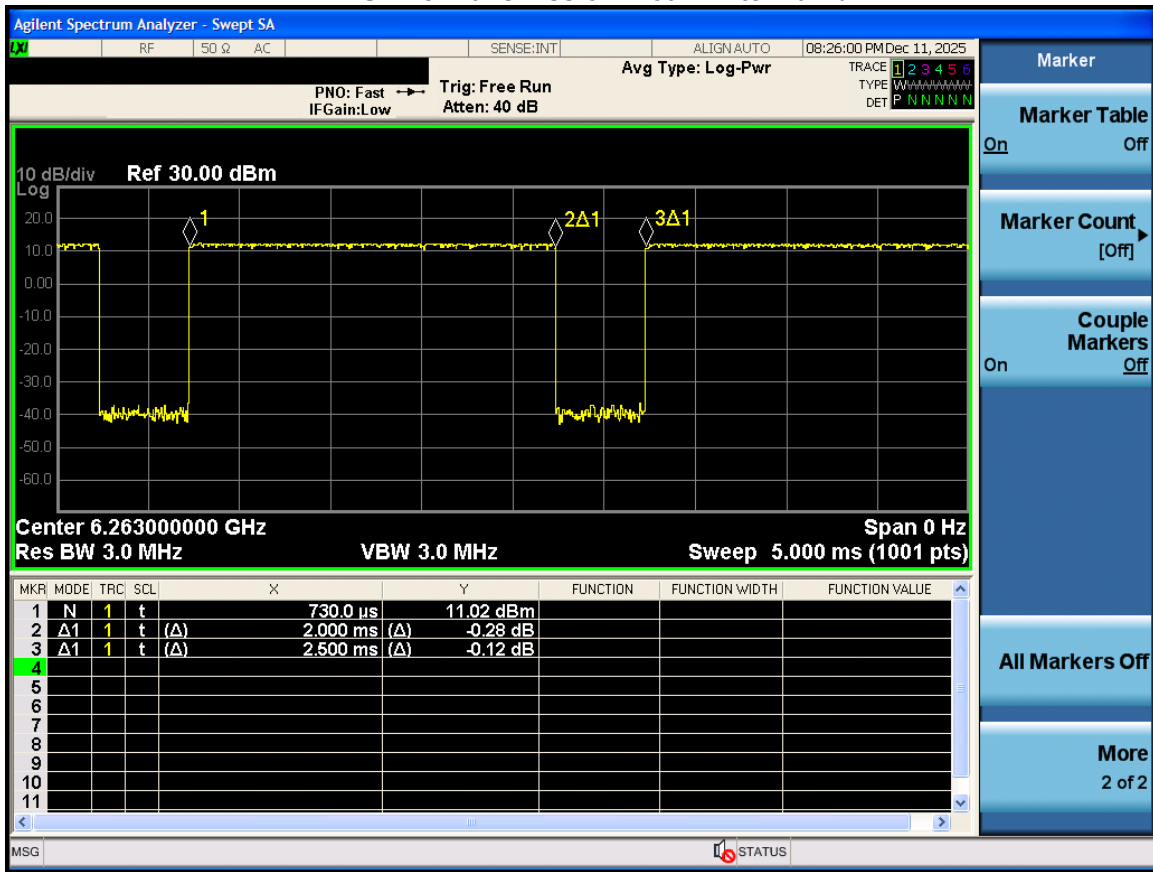


Equation 8-12

NB UNII 5 Duty Cycle Calculation – Antenna 3b

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Figure 8-18
NB UNII 5 Transmission Plot – Antenna 1b



Equation 8-13
NB UNII 5 Duty Cycle Calculation – Antenna 1b

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

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8.20 Notes for NB UNII

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

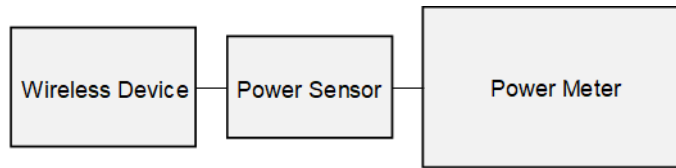


Figure 8-19

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/17/2025	30 Head	24.9	12	0.751	52.864	0.750	55.000	0.13%	-3.88%
			13	0.751	52.781	0.750	55.000	0.13%	-4.03%
			14	0.751	52.638	0.750	55.000	0.13%	-4.29%
10/2/2025	750 Head	23.2	680	0.850	43.071	0.888	42.305	-4.28%	1.81%
			695	0.854	43.028	0.889	42.227	-3.94%	1.90%
			700	0.856	43.015	0.889	42.201	-3.71%	1.93%
			710	0.859	42.989	0.890	42.149	-3.48%	1.99%
			725	0.864	42.947	0.891	42.071	-3.03%	2.08%
			750	0.873	42.860	0.894	41.942	-2.35%	2.19%
			770	0.880	42.783	0.895	41.838	-1.68%	2.26%
			785	0.885	42.728	0.896	41.760	-1.23%	2.32%
			800	0.890	42.682	0.897	41.682	-0.78%	2.40%
10/4/2025	750 Head	23.7	680	0.854	42.070	0.888	42.305	-3.83%	-0.56%
			695	0.859	42.015	0.889	42.227	-3.37%	-0.50%
			700	0.861	42.001	0.889	42.201	-3.15%	-0.47%
			710	0.865	41.974	0.890	42.149	-2.81%	-0.42%
			725	0.870	41.936	0.891	42.071	-2.36%	-0.32%
			750	0.878	41.867	0.894	41.942	-1.79%	-0.18%
			770	0.884	41.806	0.895	41.838	-1.23%	-0.08%
			785	0.889	41.756	0.896	41.760	-0.78%	-0.01%
			800	0.894	41.710	0.897	41.682	-0.33%	0.07%
10/10/2025	750 Head	24.0	680	0.855	42.054	0.888	42.305	-3.72%	-0.59%
			695	0.860	42.013	0.889	42.227	-3.26%	-0.51%
			700	0.862	41.999	0.889	42.201	-3.04%	-0.48%
			710	0.865	41.972	0.890	42.149	-2.81%	-0.42%
			725	0.870	41.924	0.891	42.071	-2.36%	-0.35%
			750	0.878	41.826	0.894	41.942	-1.79%	-0.28%
			770	0.884	41.744	0.895	41.838	-1.23%	-0.22%
			785	0.889	41.695	0.896	41.760	-0.78%	-0.16%
			800	0.894	41.655	0.897	41.682	-0.33%	-0.06%
11/12/2025	750 Head	24.9	680	0.869	42.910	0.888	42.305	-2.14%	1.43%
			695	0.874	42.860	0.889	42.227	-1.69%	1.50%
			700	0.875	42.849	0.889	42.201	-1.57%	1.54%
			710	0.879	42.824	0.890	42.149	-1.24%	1.60%
			725	0.883	42.786	0.891	42.071	-0.90%	1.70%
			750	0.890	42.706	0.894	41.942	-0.45%	1.82%
			770	0.896	42.640	0.895	41.838	0.11%	1.92%
			785	0.901	42.600	0.896	41.760	0.56%	2.01%
			800	0.906	42.571	0.897	41.682	1.00%	2.13%

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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
11/22/2025	750 Head	24.8	680	0.851	42.080	0.888	42.305	-4.17%	-0.53%
			695	0.855	42.040	0.889	42.227	-3.82%	-0.44%
			700	0.856	42.028	0.889	42.201	-3.71%	-0.41%
			710	0.859	42.007	0.890	42.149	-3.48%	-0.34%
			725	0.863	41.974	0.891	42.071	-3.14%	-0.23%
			750	0.871	41.911	0.894	41.942	-2.57%	-0.07%
			770	0.877	41.847	0.895	41.838	-2.01%	0.02%
			785	0.882	41.799	0.896	41.760	-1.56%	0.09%
9/27/2025	835 Head	23.5	800	0.886	41.760	0.897	41.682	-1.23%	0.19%
			815	0.860	42.265	0.898	41.594	-4.23%	1.61%
			820	0.862	42.257	0.899	41.578	-4.12%	1.63%
			835	0.867	42.229	0.900	41.500	-3.67%	1.76%
9/29/2025	835 Head	22.6	850	0.871	42.188	0.916	41.500	-4.91%	1.66%
			815	0.875	42.507	0.898	41.594	-2.56%	2.20%
			820	0.877	42.495	0.899	41.578	-2.45%	2.21%
			835	0.882	42.455	0.900	41.500	-2.00%	2.30%
10/1/2025	835 Head	24.0	850	0.886	42.416	0.916	41.500	-3.28%	2.21%
			815	0.921	42.023	0.898	41.594	2.56%	1.03%
			820	0.922	42.008	0.899	41.578	2.56%	1.03%
			835	0.928	41.961	0.900	41.500	3.11%	1.11%
10/16/2025	835 Head	24.5	850	0.932	41.918	0.916	41.500	1.75%	1.01%
			815	0.889	42.123	0.898	41.594	-1.00%	1.27%
			820	0.891	42.110	0.899	41.578	-0.89%	1.28%
			835	0.896	42.079	0.900	41.500	-0.44%	1.40%
9/25/2025	1750 Head	21.0	850	0.900	42.050	0.916	41.500	-1.75%	1.33%
			1700	1.360	38.833	1.343	40.145	1.27%	-3.27%
			1705	1.365	38.812	1.345	40.141	1.49%	-3.31%
			1710	1.370	38.788	1.348	40.136	1.63%	-3.36%
			1720	1.379	38.740	1.354	40.126	1.85%	-3.45%
			1745	1.405	38.598	1.368	40.087	2.70%	-3.71%
			1750	1.411	38.570	1.371	40.079	2.92%	-3.77%
			1770	1.432	38.465	1.383	40.047	3.54%	-3.95%
10/17/2025	1750 Head	22.3	1790	1.453	38.369	1.394	40.016	4.23%	-4.12%
			1700	1.341	38.990	1.343	40.145	-0.15%	-2.88%
			1705	1.347	38.970	1.345	40.141	0.15%	-2.92%
			1710	1.352	38.950	1.348	40.136	0.30%	-2.95%
			1720	1.362	38.905	1.354	40.126	0.59%	-3.04%
			1745	1.384	38.767	1.368	40.087	1.17%	-3.29%
			1750	1.388	38.738	1.371	40.079	1.24%	-3.35%
			1770	1.405	38.625	1.383	40.047	1.59%	-3.55%
11/10/2025	1750 Head	20.6	1790	1.426	38.529	1.394	40.016	2.30%	-3.72%
			1700	1.364	38.842	1.343	40.145	1.56%	-3.25%
			1705	1.369	38.816	1.345	40.141	1.78%	-3.30%
			1710	1.374	38.793	1.348	40.136	1.93%	-3.35%
			1720	1.385	38.744	1.354	40.126	2.29%	-3.44%
			1745	1.411	38.597	1.368	40.087	3.14%	-3.72%
			1750	1.416	38.572	1.371	40.079	3.28%	-3.76%
			1770	1.437	38.480	1.383	40.047	3.90%	-3.91%
			1790	1.455	38.394	1.394	40.016	4.38%	-4.05%

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10/13/2025	1900 Head	20.0	1850	1.387	41.553	1.400	40.000	-0.93%	3.88%
			1860	1.395	41.529	1.400	40.000	-0.36%	3.82%
			1880	1.410	41.493	1.400	40.000	0.71%	3.73%
			1900	1.424	41.477	1.400	40.000	1.71%	3.69%
			1905	1.428	41.471	1.400	40.000	2.00%	3.68%
			1910	1.431	41.466	1.400	40.000	2.21%	3.67%
			1920	1.437	41.456	1.400	40.000	2.64%	3.64%
10/14/2025	2450 Head	20.0	2300	1.654	40.017	1.670	39.500	-0.96%	1.31%
			2310	1.662	40.006	1.679	39.480	-1.01%	1.33%
			2320	1.669	39.996	1.687	39.460	-1.07%	1.36%
			2400	1.732	39.876	1.756	39.289	-1.37%	1.49%
			2450	1.771	39.824	1.800	39.200	-1.61%	1.59%
			2480	1.793	39.765	1.833	39.162	-2.18%	1.54%
			2500	1.811	39.730	1.855	39.136	-2.37%	1.52%
			2510	1.820	39.718	1.866	39.123	-2.47%	1.52%
			2535	1.843	39.692	1.893	39.092	-2.64%	1.53%
			2550	1.856	39.677	1.909	39.073	-2.78%	1.55%
			2560	1.864	39.665	1.920	39.060	-2.92%	1.55%
			2600	1.896	39.582	1.964	39.009	-3.46%	1.47%
			2650	1.941	39.503	2.018	38.945	-3.82%	1.43%
			2680	1.964	39.455	2.051	38.907	-4.24%	1.41%
11/11/2025	2450 Head	19.1	2700	1.980	39.403	2.073	38.882	-4.49%	1.34%
			2300	1.637	40.358	1.670	39.500	-1.98%	2.17%
			2310	1.645	40.349	1.679	39.480	-2.03%	2.20%
			2320	1.653	40.342	1.687	39.460	-2.02%	2.24%
			2400	1.716	40.220	1.756	39.289	-2.28%	2.37%
			2450	1.757	40.160	1.800	39.200	-2.39%	2.45%
			2480	1.780	40.097	1.833	39.162	-2.89%	2.39%
			2500	1.798	40.054	1.855	39.136	-3.07%	2.35%
			2510	1.807	40.036	1.866	39.123	-3.16%	2.33%
			2535	1.829	40.004	1.893	39.092	-3.38%	2.33%
			2550	1.842	39.985	1.909	39.073	-3.51%	2.33%
			2560	1.849	39.968	1.920	39.060	-3.70%	2.32%
			2600	1.882	39.867	1.964	39.009	-4.18%	2.20%
			2650	1.926	39.784	2.018	38.945	-4.56%	2.15%
10/9/2025	2450 Head	24.3	2680	1.949	39.731	2.051	38.907	-4.97%	2.12%
			2300	1.689	38.920	1.670	39.500	1.14%	-1.47%
			2310	1.701	38.886	1.679	39.480	1.31%	-1.50%
			2320	1.713	38.851	1.687	39.460	1.54%	-1.54%
			2400	1.803	38.541	1.756	39.289	2.68%	-1.90%
			2450	1.863	38.345	1.800	39.200	3.50%	-2.18%
			2480	1.897	38.224	1.833	39.162	3.49%	-2.40%
			2500	1.920	38.139	1.855	39.136	3.50%	-2.55%
			2510	1.932	38.097	1.866	39.123	3.54%	-2.62%
			2535	1.963	37.992	1.893	39.092	3.70%	-2.81%
			2550	1.981	37.936	1.909	39.073	3.77%	-2.91%
			2560	1.993	37.899	1.920	39.060	3.80%	-2.97%
			2600	2.038	37.730	1.964	39.009	3.77%	-3.28%
			2650	2.098	37.521	2.018	38.945	3.96%	-3.66%
			2680	2.133	37.406	2.051	38.907	4.00%	-3.86%
			2700	2.155	37.316	2.073	38.882	3.96%	-4.03%

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10/23/2025	2450 Head	23.0	2300	1.611	40.534	1.670	39.500	-3.53%	2.62%
			2310	1.623	40.502	1.679	39.480	-3.34%	2.59%
			2320	1.635	40.471	1.687	39.460	-3.08%	2.56%
			2400	1.720	40.187	1.756	39.289	-2.05%	2.29%
			2450	1.775	40.005	1.800	39.200	-1.39%	2.05%
			2480	1.809	39.893	1.833	39.162	-1.31%	1.87%
			2500	1.831	39.823	1.855	39.136	-1.29%	1.76%
			2510	1.842	39.791	1.866	39.123	-1.29%	1.71%
			2535	1.871	39.705	1.893	39.092	-1.16%	1.57%
			2550	1.888	39.654	1.909	39.073	-1.10%	1.49%
			2560	1.900	39.617	1.920	39.060	-1.04%	1.43%
			2600	1.944	39.463	1.964	39.009	-1.02%	1.16%
			2650	2.001	39.266	2.018	38.945	-0.84%	0.82%
			2680	2.034	39.149	2.051	38.907	-0.83%	0.62%
			2700	2.056	39.070	2.073	38.882	-0.82%	0.48%
10/25/2025	2450 Head	24.2	2300	1.682	40.332	1.670	39.500	0.72%	2.11%
			2310	1.693	40.295	1.679	39.480	0.83%	2.06%
			2320	1.706	40.258	1.687	39.460	1.13%	2.02%
			2400	1.796	39.948	1.756	39.289	2.28%	1.68%
			2450	1.855	39.770	1.800	39.200	3.06%	1.45%
			2480	1.889	39.649	1.833	39.162	3.06%	1.24%
			2500	1.911	39.557	1.855	39.136	3.02%	1.08%
			2510	1.923	39.512	1.866	39.123	3.05%	0.99%
			2535	1.953	39.413	1.893	39.092	3.17%	0.82%
			2550	1.971	39.364	1.909	39.073	3.25%	0.74%
			2560	1.984	39.330	1.920	39.060	3.33%	0.69%
			2600	2.029	39.166	1.964	39.009	3.31%	0.40%
			2650	2.087	38.949	2.018	38.945	3.42%	0.01%
			2680	2.124	38.842	2.051	38.907	3.56%	-0.17%
			2700	2.147	38.762	2.073	38.882	3.57%	-0.31%
11/3/2025	2450 Head	24.8	2300	1.664	40.010	1.670	39.500	-0.36%	1.29%
			2310	1.675	39.982	1.679	39.480	-0.24%	1.27%
			2320	1.686	39.952	1.687	39.460	-0.06%	1.25%
			2400	1.778	39.629	1.756	39.289	1.25%	0.87%
			2450	1.832	39.457	1.800	39.200	1.78%	0.66%
			2480	1.867	39.305	1.833	39.162	1.85%	0.37%
			2500	1.894	39.231	1.855	39.136	2.10%	0.24%
			2510	1.907	39.204	1.866	39.123	2.20%	0.21%
			2535	1.935	39.135	1.893	39.092	2.22%	0.11%
			2550	1.950	39.074	1.909	39.073	2.15%	0.00%
			2560	1.961	39.025	1.920	39.060	2.14%	-0.09%
			2600	2.008	38.818	1.964	39.009	2.24%	-0.49%
			2650	2.069	38.671	2.018	38.945	2.53%	-0.70%
			2680	2.098	38.528	2.051	38.907	2.29%	-0.97%
			2700	2.122	38.425	2.073	38.882	2.36%	-1.18%

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1/26/2026	2450 Head	19.0	2300	1.663	41.170	1.670	39.500	-0.42%	4.23%
			2310	1.671	41.159	1.679	39.480	-0.48%	4.25%
			2320	1.679	41.153	1.687	39.460	-0.47%	4.29%
			2400	1.744	41.028	1.756	39.289	-0.68%	4.43%
			2450	1.786	40.978	1.800	39.200	-0.78%	4.54%
			2480	1.810	40.925	1.833	39.162	-1.25%	4.50%
			2500	1.828	40.879	1.855	39.136	-1.46%	4.45%
			2510	1.837	40.860	1.866	39.123	-1.55%	4.44%
			2535	1.860	40.820	1.893	39.092	-1.74%	4.42%
			2550	1.874	40.803	1.909	39.073	-1.83%	4.43%
			2560	1.882	40.790	1.920	39.060	-1.98%	4.43%
			2600	1.916	40.709	1.964	39.009	-2.44%	4.36%
			2650	1.962	40.608	2.018	38.945	-2.78%	4.27%
			2680	1.988	40.554	2.051	38.907	-3.07%	4.23%
			2700	2.004	40.507	2.073	38.882	-3.33%	4.18%
10/15/2025	2450 Head	24.5	2300	1.699	39.050	1.670	39.500	1.74%	-1.14%
			2310	1.710	39.001	1.679	39.480	1.85%	-1.21%
			2320	1.722	38.956	1.687	39.460	2.07%	-1.28%
			2400	1.815	38.609	1.756	39.289	3.36%	-1.73%
			2450	1.876	38.399	1.800	39.200	4.22%	-2.04%
			2480	1.909	38.284	1.833	39.162	4.15%	-2.24%
			2500	1.929	38.191	1.855	39.136	3.99%	-2.41%
			2510	1.939	38.141	1.866	39.123	3.91%	-2.51%
			2535	1.970	38.021	1.893	39.092	4.07%	-2.74%
			2550	1.990	37.965	1.909	39.073	4.24%	-2.84%
			2560	2.003	37.935	1.920	39.060	4.32%	-2.88%
			2600	2.050	37.794	1.964	39.009	4.38%	-3.11%
			2650	2.108	37.569	2.018	38.945	4.46%	-3.53%
			2680	2.149	37.466	2.051	38.907	4.78%	-3.70%
			2700	2.172	37.391	2.073	38.882	4.78%	-3.83%
11/6/2025	2450 Head	24.9	2300	1.651	38.796	1.670	39.500	-1.14%	-1.78%
			2310	1.662	38.761	1.679	39.480	-1.01%	-1.82%
			2320	1.673	38.727	1.687	39.460	-0.83%	-1.86%
			2400	1.762	38.400	1.756	39.289	0.34%	-2.26%
			2450	1.817	38.213	1.800	39.200	0.94%	-2.52%
			2480	1.850	38.090	1.833	39.162	0.93%	-2.74%
			2500	1.873	38.011	1.855	39.136	0.97%	-2.87%
			2510	1.884	37.974	1.866	39.123	0.96%	-2.94%
			2535	1.913	37.886	1.893	39.092	1.06%	-3.09%
			2550	1.930	37.831	1.909	39.073	1.10%	-3.18%
			2560	1.942	37.796	1.920	39.060	1.15%	-3.24%
			2600	1.986	37.630	1.964	39.009	1.12%	-3.54%
			2650	2.044	37.435	2.018	38.945	1.29%	-3.88%
			2680	2.078	37.325	2.051	38.907	1.32%	-4.07%
			2700	2.100	37.242	2.073	38.882	1.30%	-4.22%

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11/9/2025	3600 Head	19.1	3300	2.597	39.625	2.708	38.157	-4.10%	3.85%
			3350	2.640	39.501	2.759	38.100	-4.31%	3.68%
			3450	2.733	39.329	2.861	37.986	-4.47%	3.54%
			3500	2.786	39.246	2.913	37.929	-4.36%	3.47%
			3550	2.830	39.162	2.964	37.871	-4.52%	3.41%
			3560	2.841	39.136	2.974	37.860	-4.47%	3.37%
			3600	2.884	39.055	3.015	37.814	-4.34%	3.28%
			3650	2.929	38.988	3.066	37.757	-4.47%	3.26%
			3690	2.972	38.906	3.107	37.711	-4.35%	3.17%
			3700	2.982	38.893	3.117	37.700	-4.33%	3.16%
			3750	3.030	38.816	3.169	37.643	-4.39%	3.12%
			3900	3.189	38.558	3.323	37.471	-4.03%	2.90%
			3930	3.220	38.519	3.353	37.437	-3.97%	2.89%
			4100	3.405	38.211	3.528	37.243	-3.49%	2.60%
			4150	3.464	38.157	3.579	37.186	-3.21%	2.61%
			4350	3.686	37.782	3.781	36.943	-2.51%	2.27%
			4400	3.736	37.696	3.833	36.886	-2.53%	2.20%
			4450	3.800	37.590	3.884	36.829	-2.16%	2.07%
			4500	3.856	37.519	3.936	36.771	-2.03%	2.03%
			4550	3.915	37.398	3.987	36.714	-1.81%	1.86%
			4600	3.975	37.320	4.039	36.657	-1.58%	1.81%
			4650	4.031	37.201	4.090	36.600	-1.44%	1.64%
			4700	4.092	37.107	4.141	36.543	-1.18%	1.54%
			4750	4.146	37.002	4.193	36.486	-1.12%	1.41%
			4800	4.211	36.902	4.244	36.429	-0.78%	1.30%
			4850	4.269	36.806	4.296	36.371	-0.63%	1.20%
			4900	4.330	36.693	4.347	36.314	-0.39%	1.04%
			4950	4.384	36.605	4.399	36.257	-0.34%	0.96%
			5000	4.445	36.502	4.450	36.200	-0.11%	0.83%
11/9/2025	3600 Head	19.1	3300	2.704	39.722	2.708	38.157	-0.15%	4.10%
			3350	2.744	39.618	2.759	38.100	-0.54%	3.98%
			3450	2.833	39.468	2.861	37.986	-0.98%	3.90%
			3500	2.880	39.392	2.913	37.929	-1.13%	3.86%
			3550	2.921	39.319	2.964	37.871	-1.45%	3.82%
			3560	2.931	39.297	2.974	37.860	-1.45%	3.80%
			3600	2.972	39.223	3.015	37.814	-1.43%	3.73%
			3650	3.015	39.166	3.066	37.757	-1.66%	3.73%
			3690	3.053	39.093	3.107	37.711	-1.74%	3.66%
			3700	3.063	39.081	3.117	37.700	-1.73%	3.66%
			3750	3.109	39.014	3.169	37.643	-1.89%	3.64%
			3900	3.257	38.790	3.323	37.471	-1.99%	3.52%
			3930	3.287	38.754	3.353	37.437	-1.97%	3.52%
			4100	3.461	38.498	3.528	37.243	-1.90%	3.37%
			4150	3.516	38.448	3.579	37.186	-1.76%	3.39%
11/30/2025	3600 Head	19.4	3300	2.721	39.693	2.708	38.157	0.48%	4.03%
			3350	2.761	39.622	2.759	38.100	0.07%	3.99%
			3450	2.851	39.456	2.861	37.986	-0.35%	3.87%
			3500	2.895	39.351	2.913	37.929	-0.62%	3.75%
			3550	2.943	39.300	2.964	37.871	-0.71%	3.77%
			3560	2.951	39.277	2.974	37.860	-0.77%	3.74%
			3600	2.991	39.188	3.015	37.814	-0.80%	3.63%
			3650	3.038	39.131	3.066	37.757	-0.91%	3.64%
			3690	3.075	39.050	3.107	37.711	-1.03%	3.55%
			3700	3.085	39.039	3.117	37.700	-1.03%	3.55%
			3750	3.136	38.972	3.169	37.643	-1.04%	3.53%
			3900	3.281	38.735	3.323	37.471	-1.26%	3.37%
			3930	3.314	38.681	3.353	37.437	-1.16%	3.32%
			4100	3.490	38.447	3.528	37.243	-1.08%	3.23%
			4150	3.546	38.345	3.579	37.186	-0.92%	3.12%

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12/4/2025	3600 Head	19.0	3300	2.599	39.286	2.708	38.157	-4.03%	2.96%
			3350	2.648	39.215	2.759	38.100	-4.02%	2.93%
			3450	2.740	39.021	2.861	37.986	-4.23%	2.72%
			3500	2.784	38.901	2.913	37.929	-4.43%	2.56%
			3550	2.839	38.838	2.964	37.871	-4.22%	2.55%
			3560	2.847	38.831	2.974	37.860	-4.27%	2.56%
			3600	2.884	38.760	3.015	37.814	-4.34%	2.50%
			3650	2.940	38.672	3.066	37.757	-4.11%	2.42%
			3690	2.983	38.614	3.107	37.711	-3.99%	2.39%
			3700	2.993	38.592	3.117	37.700	-3.98%	2.37%
			3750	3.050	38.495	3.169	37.643	-3.76%	2.26%
			3900	3.212	38.254	3.323	37.471	-3.34%	2.09%
			3930	3.255	38.188	3.353	37.437	-2.92%	2.01%
			4100	3.451	37.959	3.528	37.243	-2.18%	1.92%
			4150	3.504	37.870	3.579	37.186	-2.10%	1.84%
			4350	3.717	37.557	3.781	36.943	-1.69%	1.66%
			4400	3.781	37.450	3.833	36.886	-1.36%	1.53%
			4450	3.817	37.324	3.884	36.829	-1.73%	1.34%
			4500	3.888	37.209	3.936	36.771	-1.22%	1.19%
			4550	3.933	37.140	3.987	36.714	-1.35%	1.16%
			4600	3.985	36.991	4.039	36.657	-1.34%	0.91%
			4650	4.045	36.895	4.090	36.600	-1.10%	0.81%
			4700	4.101	36.768	4.141	36.543	-0.97%	0.62%
			4750	4.166	36.655	4.193	36.486	-0.64%	0.46%
			4800	4.227	36.556	4.244	36.429	-0.40%	0.35%
			4850	4.284	36.451	4.296	36.371	-0.28%	0.22%
			4900	4.359	36.342	4.347	36.314	0.28%	0.08%
			4950	4.428	36.265	4.399	36.257	0.66%	0.02%
			5000	4.482	36.154	4.450	36.200	0.72%	-0.13%

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10/25/2025	5200-5800 Head	19.0	5150	4.489	34.930	4.608	36.050	-2.58%	-3.11%
			5160	4.502	34.910	4.618	36.040	-2.51%	-3.14%
			5170	4.512	34.881	4.629	36.030	-2.53%	-3.19%
			5180	4.524	34.849	4.635	36.009	-2.39%	-3.22%
			5190	4.539	34.825	4.645	35.998	-2.28%	-3.26%
			5200	4.554	34.812	4.655	35.986	-2.17%	-3.26%
			5210	4.564	34.811	4.666	35.975	-2.19%	-3.24%
			5220	4.572	34.792	4.676	35.963	-2.22%	-3.26%
			5240	4.597	34.744	4.696	35.940	-2.11%	-3.33%
			5250	4.610	34.733	4.706	35.929	-2.04%	-3.33%
			5260	4.623	34.724	4.717	35.917	-1.99%	-3.32%
			5270	4.633	34.702	4.727	35.906	-1.99%	-3.35%
			5280	4.643	34.671	4.737	35.894	-1.98%	-3.41%
			5290	4.655	34.647	4.748	35.883	-1.96%	-3.44%
			5300	4.670	34.624	4.758	35.871	-1.85%	-3.48%
			5310	4.683	34.608	4.768	35.860	-1.78%	-3.49%
			5320	4.692	34.594	4.778	35.849	-1.80%	-3.50%
			5500	4.893	34.247	4.963	35.643	-1.41%	-3.92%
			5510	4.902	34.241	4.973	35.632	-1.43%	-3.90%
			5520	4.912	34.225	4.983	35.620	-1.42%	-3.92%
			5530	4.924	34.194	4.994	35.609	-1.40%	-3.97%
			5540	4.935	34.174	5.004	35.597	-1.38%	-4.00%
			5550	4.945	34.157	5.014	35.586	-1.38%	-4.02%
			5560	4.956	34.145	5.024	35.574	-1.35%	-4.02%
			5580	4.981	34.098	5.045	35.551	-1.27%	-4.09%
			5600	5.009	34.053	5.065	35.529	-1.11%	-4.15%
			5610	5.026	34.032	5.076	35.518	-0.99%	-4.18%
			5620	5.038	34.015	5.086	35.506	-0.94%	-4.20%
			5640	5.056	33.970	5.106	35.483	-0.98%	-4.26%
			5660	5.079	33.948	5.127	35.460	-0.94%	-4.26%
			5670	5.092	33.938	5.137	35.449	-0.88%	-4.26%
			5680	5.102	33.915	5.147	35.437	-0.87%	-4.29%
			5690	5.112	33.890	5.158	35.426	-0.89%	-4.34%
			5700	5.124	33.872	5.168	35.414	-0.85%	-4.35%
			5710	5.138	33.846	5.178	35.403	-0.77%	-4.40%
			5720	5.152	33.825	5.188	35.391	-0.69%	-4.42%
			5745	5.175	33.777	5.214	35.363	-0.75%	-4.48%
			5750	5.181	33.774	5.219	35.357	-0.73%	-4.48%
			5755	5.185	33.772	5.224	35.351	-0.75%	-4.47%
			5765	5.198	33.759	5.234	35.340	-0.69%	-4.47%
			5775	5.209	33.746	5.245	35.329	-0.69%	-4.48%
			5785	5.220	33.723	5.255	35.317	-0.67%	-4.51%
			5795	5.234	33.705	5.265	35.305	-0.59%	-4.53%
			5800	5.241	33.693	5.270	35.300	-0.55%	-4.55%
			5805	5.249	33.682	5.275	35.294	-0.49%	-4.57%
			5825	5.274	33.624	5.296	35.271	-0.42%	-4.67%
			5835	5.286	33.596	5.305	35.230	-0.36%	-4.64%
			5845	5.296	33.580	5.315	35.210	-0.36%	-4.63%
			5850	5.299	33.579	5.320	35.200	-0.39%	-4.61%
			5855	5.302	33.576	5.325	35.197	-0.43%	-4.61%
			5865	5.310	33.569	5.336	35.190	-0.49%	-4.61%
			5875	5.322	33.553	5.347	35.183	-0.47%	-4.63%
			5885	5.337	33.533	5.357	35.177	-0.37%	-4.67%
			5905	5.363	33.489	5.379	35.163	-0.30%	-4.76%

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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
11/7/2025	5200-5800 Head	19.7	5150	4.457	36.067	4.608	36.050	-3.28%	0.05%
			5160	4.465	36.055	4.618	36.040	-3.31%	0.04%
			5170	4.473	36.037	4.629	36.030	-3.37%	0.02%
			5180	4.482	36.008	4.635	36.009	-3.30%	0.00%
			5190	4.493	35.983	4.645	35.998	-3.27%	-0.04%
			5200	4.504	35.970	4.655	35.986	-3.24%	-0.04%
			5210	4.513	35.956	4.666	35.975	-3.28%	-0.05%
			5220	4.524	35.930	4.676	35.963	-3.25%	-0.09%
			5240	4.555	35.868	4.696	35.940	-3.00%	-0.20%
			5250	4.569	35.863	4.706	35.929	-2.91%	-0.18%
			5260	4.580	35.861	4.717	35.917	-2.90%	-0.16%
			5270	4.589	35.849	4.727	35.906	-2.92%	-0.16%
			5280	4.598	35.819	4.737	35.894	-2.93%	-0.21%
			5290	4.606	35.794	4.748	35.883	-2.99%	-0.25%
			5300	4.618	35.766	4.758	35.871	-2.94%	-0.29%
			5310	4.627	35.754	4.768	35.860	-2.96%	-0.30%
			5320	4.636	35.733	4.778	35.849	-2.97%	-0.32%
			5500	4.849	35.405	4.963	35.643	-2.30%	-0.67%
			5510	4.855	35.386	4.973	35.632	-2.37%	-0.69%
			5520	4.862	35.372	4.983	35.620	-2.43%	-0.70%
			5530	4.875	35.347	4.994	35.609	-2.38%	-0.74%
			5540	4.892	35.320	5.004	35.597	-2.24%	-0.78%
			5550	4.907	35.295	5.014	35.586	-2.13%	-0.82%
			5560	4.918	35.278	5.024	35.574	-2.11%	-0.83%
			5580	4.943	35.270	5.045	35.551	-2.02%	-0.79%
			5600	4.966	35.236	5.065	35.529	-1.95%	-0.82%
			5610	4.976	35.214	5.076	35.518	-1.97%	-0.86%
			5620	4.985	35.200	5.086	35.506	-1.99%	-0.86%
			5640	5.004	35.141	5.106	35.483	-2.00%	-0.96%
			5660	5.033	35.080	5.127	35.460	-1.83%	-1.07%
			5670	5.050	35.074	5.137	35.449	-1.69%	-1.06%
			5680	5.064	35.065	5.147	35.437	-1.61%	-1.05%
			5690	5.075	35.065	5.158	35.426	-1.61%	-1.02%
			5700	5.084	35.048	5.168	35.414	-1.63%	-1.03%
			5710	5.095	35.035	5.178	35.403	-1.60%	-1.04%
			5720	5.104	35.029	5.188	35.391	-1.62%	-1.02%
			5745	5.123	34.959	5.214	35.363	-1.75%	-1.14%
			5750	5.128	34.937	5.219	35.357	-1.74%	-1.19%
			5755	5.134	34.920	5.224	35.351	-1.72%	-1.22%
			5765	5.149	34.894	5.234	35.340	-1.62%	-1.26%
			5775	5.164	34.878	5.245	35.329	-1.54%	-1.28%
			5785	5.179	34.867	5.255	35.317	-1.45%	-1.27%
			5795	5.192	34.856	5.265	35.305	-1.39%	-1.27%
			5800	5.199	34.852	5.270	35.300	-1.35%	-1.27%
			5805	5.206	34.844	5.275	35.294	-1.31%	-1.28%
			5825	5.227	34.823	5.296	35.271	-1.30%	-1.27%
			5835	5.237	34.806	5.305	35.230	-1.28%	-1.20%
			5845	5.244	34.790	5.315	35.210	-1.34%	-1.19%
			5850	5.248	34.773	5.320	35.200	-1.35%	-1.21%
			5855	5.252	34.757	5.325	35.197	-1.37%	-1.25%
			5865	5.262	34.740	5.336	35.190	-1.39%	-1.28%
			5875	5.277	34.724	5.347	35.183	-1.31%	-1.30%
			5885	5.294	34.704	5.357	35.177	-1.18%	-1.34%
			5905	5.323	34.684	5.379	35.163	-1.04%	-1.36%

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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
1/26/2026	5200-5800 Head	19.0	5150	4.410	35.556	4.608	36.050	-4.30%	-1.37%
			5160	4.423	35.543	4.618	36.040	-4.22%	-1.38%
			5170	4.434	35.526	4.629	36.030	-4.21%	-1.40%
			5180	4.446	35.501	4.635	36.009	-4.08%	-1.41%
			5190	4.458	35.478	4.645	35.998	-4.03%	-1.44%
			5200	4.471	35.453	4.655	35.986	-3.95%	-1.48%
			5210	4.480	35.442	4.666	35.975	-3.99%	-1.48%
			5220	4.486	35.430	4.676	35.963	-4.06%	-1.48%
			5240	4.508	35.385	4.696	35.940	-4.00%	-1.54%
			5250	4.521	35.366	4.706	35.929	-3.93%	-1.57%
			5260	4.532	35.352	4.717	35.917	-3.92%	-1.57%
			5270	4.541	35.342	4.727	35.906	-3.93%	-1.57%
			5280	4.552	35.322	4.737	35.894	-3.91%	-1.59%
			5290	4.566	35.297	4.748	35.883	-3.83%	-1.63%
			5300	4.580	35.285	4.758	35.871	-3.74%	-1.63%
			5310	4.588	35.279	4.768	35.860	-3.78%	-1.62%
			5320	4.597	35.265	4.778	35.849	-3.79%	-1.63%
			5500	4.790	34.954	4.963	35.643	-3.49%	-1.93%
			5510	4.802	34.934	4.973	35.632	-3.44%	-1.96%
			5520	4.813	34.910	4.983	35.620	-3.41%	-1.99%
			5530	4.823	34.880	4.994	35.609	-3.42%	-2.05%
			5540	4.832	34.855	5.004	35.597	-3.44%	-2.08%
			5550	4.843	34.842	5.014	35.586	-3.41%	-2.09%
			5560	4.854	34.844	5.024	35.574	-3.38%	-2.05%
			5580	4.882	34.812	5.045	35.551	-3.23%	-2.08%
			5600	4.905	34.765	5.065	35.529	-3.16%	-2.15%
			5610	4.917	34.755	5.076	35.518	-3.13%	-2.15%
			5620	4.925	34.748	5.086	35.506	-3.17%	-2.13%
			5640	4.943	34.714	5.106	35.483	-3.19%	-2.17%
			5660	4.970	34.666	5.127	35.460	-3.06%	-2.24%
			5670	4.979	34.653	5.137	35.449	-3.08%	-2.25%
			5680	4.990	34.638	5.147	35.437	-3.05%	-2.25%
			5690	5.004	34.624	5.158	35.426	-2.99%	-2.26%
			5700	5.017	34.614	5.168	35.414	-2.92%	-2.26%
			5710	5.033	34.598	5.178	35.403	-2.80%	-2.27%
			5720	5.047	34.570	5.188	35.391	-2.72%	-2.32%
			5745	5.064	34.534	5.214	35.363	-2.88%	-2.34%
			5750	5.068	34.525	5.219	35.357	-2.89%	-2.35%
			5755	5.072	34.518	5.224	35.351	-2.91%	-2.36%
			5765	5.083	34.495	5.234	35.340	-2.88%	-2.39%
			5775	5.095	34.477	5.245	35.329	-2.86%	-2.41%
			5785	5.108	34.463	5.255	35.317	-2.80%	-2.42%
			5795	5.123	34.444	5.265	35.305	-2.70%	-2.44%
			5800	5.129	34.439	5.270	35.300	-2.68%	-2.44%
			5800	5.129	34.439	5.270	35.300	-2.68%	-2.44%
			5825	5.161	34.406	5.296	35.271	-2.55%	-2.45%
			5835	5.170	34.390	5.305	35.230	-2.54%	-2.38%
			5845	5.177	34.371	5.315	35.210	-2.60%	-2.38%
			5850	5.182	34.363	5.320	35.200	-2.59%	-2.38%
			5855	5.187	34.352	5.325	35.197	-2.59%	-2.40%
			5865	5.199	34.331	5.336	35.190	-2.57%	-2.44%
			5875	5.211	34.316	5.347	35.183	-2.54%	-2.46%
			5885	5.221	34.303	5.357	35.177	-2.54%	-2.48%
			5905	5.242	34.272	5.379	35.163	-2.55%	-2.53%

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11/3/2025	6000 Head	20.2	5935	5.202	36.580	5.411	35.143	-3.86%	4.09%
			5970	5.238	36.516	5.448	35.120	-3.85%	3.97%
			5985	5.258	36.495	5.464	35.110	-3.77%	3.94%
			6000	5.279	36.477	5.480	35.100	-3.67%	3.92%
			6025	5.317	36.429	5.510	35.070	-3.50%	3.88%
			6065	5.361	36.357	5.557	35.022	-3.53%	3.81%
			6075	5.370	36.345	5.569	35.010	-3.57%	3.81%
			6085	5.381	36.333	5.580	34.998	-3.57%	3.81%
			6185	5.510	36.120	5.698	34.878	-3.30%	3.56%
			6275	5.629	35.988	5.805	34.770	-3.03%	3.50%
			6285	5.637	35.974	5.816	34.758	-3.08%	3.50%
			6305	5.657	35.942	5.840	34.734	-3.13%	3.48%
			6345	5.713	35.878	5.887	34.686	-2.96%	3.44%
			6475	5.876	35.676	6.041	34.530	-2.73%	3.32%
			6485	5.883	35.660	6.052	34.518	-2.79%	3.31%
			6500	5.893	35.639	6.070	34.500	-2.92%	3.30%
			6505	5.897	35.633	6.076	34.494	-2.95%	3.30%
			6545	5.948	35.555	6.122	34.446	-2.84%	3.22%
			6665	6.104	35.359	6.265	34.302	-2.57%	3.08%
			6675	6.119	35.345	6.273	34.290	-2.45%	3.08%
			6685	6.128	35.328	6.285	34.278	-2.50%	3.06%
			6715	6.148	35.285	6.319	34.242	-2.71%	3.05%
			6785	6.237	35.149	6.400	34.158	-2.55%	2.90%
			6825	6.280	35.100	6.447	34.110	-2.59%	2.90%
			6985	6.469	34.835	6.633	33.918	-2.47%	2.70%
			6995	6.480	34.814	6.644	33.906	-2.47%	2.68%
			7000	6.487	34.803	6.650	33.900	-2.45%	2.66%
			7005	6.493	34.794	6.656	33.894	-2.45%	2.66%
			7025	6.514	34.776	6.680	33.870	-2.49%	2.67%
			7500	7.087	34.014	7.240	33.300	-2.11%	2.14%
			7980	7.660	33.231	7.816	32.724	-2.00%	1.55%

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														
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 4cm2 APD (W/m2)
AM14	13	HEAD	12/17/2025	21.2	23.1	1.00	1004	7782	1646	0.603	0.585	0.603	3.08%	
AM1	750	HEAD	10/02/2025	23.5	22.7	0.20	1057	7357	1582	1.770	8.800	8.850	0.57%	
AM1	750	HEAD	10/04/2025	23.1	21.9	0.20	1057	7357	1582	1.710	8.800	8.550	-2.84%	
AM1	750	HEAD	10/10/2025	23.4	23.4	0.20	1057	7357	1582	1.680	8.800	8.400	-4.55%	
AM1	750	HEAD	11/12/2025	22.1	23.1	0.20	1057	7357	1582	1.760	8.800	8.800	0.00%	
AM1	750	HEAD	11/22/2025	22.8	24.0	0.20	1057	7357	1582	1.710	8.800	8.550	-2.84%	
AM11	835	HEAD	09/27/2025	23.6	23.5	0.20	460	7551	1323	2.050	9.550	10.250	7.33%	
AM11	835	HEAD	09/29/2025	23.6	22.6	0.20	46040	7551	1323	1.780	9.590	8.900	-7.19%	
AM11	835	HEAD	10/01/2025	23.5	22.3	0.20	46040	7551	1323	1.910	9.590	9.550	-0.42%	
AM11	835	HEAD	10/16/2025	22.1	22.6	0.20	46040	7551	1323	2.070	9.590	10.350	7.92%	
AM13	1750	HEAD	09/25/2025	22.2	21.0	0.10	1040	7421	604	3.640	36.400	36.400	0.00%	
AM13	1750	HEAD	10/17/2025	21.8	20.6	0.10	1040	7421	604	3.710	36.400	37.100	1.92%	
AM13	1750	HEAD	11/10/2025	22.8	21.2	0.10	1083	7421	604	3.570	36.500	35.700	-2.19%	
AM15	1900	HEAD	10/13/2025	22.9	20.0	0.10	56131	7638	467	4.150	39.800	41.500	4.27%	
AM10	2300	HEAD	10/14/2025	19.1	20.1	0.10	1038	7416	701	4.880	49.100	48.800	-0.61%	
AM10	2300	HEAD	11/11/2025	20.7	19.1	0.10	1038	7416	701	4.880	49.100	48.800	-0.61%	
AM16	2450	HEAD	10/09/2025	23.0	23.0	0.10	750	7532	501	5.400	53.300	54.000	1.31%	
AM16	2450	HEAD	10/23/2025	21.1	22.7	0.10	750	7532	501	5.130	53.300	51.300	-3.75%	
AM16	2450	HEAD	10/25/2025	21.5	22.5	0.10	750	7532	501	5.120	53.300	51.200	-3.94%	
AM16	2450	HEAD	11/03/2025	20.7	23.5	0.10	750	7532	501	5.080	53.300	50.800	-4.69%	
AM11	2450	HEAD	01/28/2026	19.2	19.0	0.10	855	7551	1323	5.230	53.300	52.300	-1.88%	
AM16	2600	HEAD	10/09/2025	23.0	23.0	0.10	1042	7532	501	5.380	54.900	53.800	-2.00%	
AM16	2600	HEAD	10/15/2025	21.0	23.5	0.10	1042	7532	501	5.650	54.900	56.500	2.91%	
AM16	2600	HEAD	10/25/2025	21.5	22.5	0.10	1042	7532	501	5.640	54.900	56.400	2.73%	
AM14	2600	HEAD	11/06/2025	23.0	23.0	0.10	1042	7782	1646	5.480	54.900	54.800	-0.18%	
AM3	3500	HEAD	11/09/2025	22.6	20.8	0.10	1126	7552	1676	6.850	66.200	68.500	3.47%	
AM4	3500	HEAD	11/09/2025	21.9	20.5	0.10	1126	7360	534	6.360	66.200	63.600	-3.93%	
AM4	3500	HEAD	11/30/2025	20.9	19.4	0.10	1097	7360	534	6.280	65.100	62.800	-3.53%	
AM3	3500	HEAD	12/04/2025	21.5	20.0	0.10	1126	7552	1676	6.780	66.200	67.800	2.42%	
AM3	3700	HEAD	11/09/2025	22.6	20.8	0.10	1097	7552	1676	6.960	67.900	69.600	2.50%	
AM4	3700	HEAD	11/09/2025	21.9	20.5	0.10	1097	7360	534	6.560	67.900	65.600	-3.39%	
AM4	3700	HEAD	11/30/2025	20.9	19.4	0.10	1097	7360	534	6.310	67.900	63.100	-7.07%	
AM3	3700	HEAD	12/04/2025	21.5	20.0	0.10	1097	7552	1676	6.790	67.900	67.900	0.00%	
AM3	3900	HEAD	11/09/2025	22.6	20.8	0.10	1062	7552	1676	7.300	68.700	73.000	6.26%	
AM4	3900	HEAD	11/09/2025	21.9	20.5	0.10	1062	7360	534	6.800	68.700	68.000	-1.02%	
AM8	5250	HEAD	10/25/2025	19.8	19.3	0.05	1163	7499	1465	3.720	78.800	74.400	-5.58%	
AM9	5250	HEAD	11/22/2025	19.9	19.0	0.05	1066	7668	1681	3.790	78.800	75.800	-3.81%	
AM9	5250	HEAD	01/28/2026	19.5	19.0	0.05	1066	7668	1681	3.890	77.800	77.800	-0.13%	
AM9	5600	HEAD	10/25/2025	19.8	19.3	0.05	1163	7499	1465	4.360	80.900	87.200	7.79%	
AM9	5600	HEAD	11/22/2025	19.9	19.0	0.05	1066	7668	1681	4.210	80.900	84.200	4.08%	
AM9	5600	HEAD	01/28/2026	19.5	19.0	0.05	1066	7668	1681	4.040	81.800	80.800	-1.22%	
AM8	5750	HEAD	10/25/2025	19.8	19.3	0.05	1163	7499	1465	3.710	78.100	74.200	-4.99%	
AM9	5750	HEAD	11/22/2025	19.9	19.0	0.05	1066	7668	1681	3.860	78.100	77.200	-1.15%	
AM9	5750	HEAD	01/28/2026	19.5	19.0	0.05	1066	7668	1681	4.090	80.700	81.800	1.36%	
AM8	5850	HEAD	10/25/2025	19.8	19.3	0.05	1163	7499	1465	3.810	79.800	76.200	-4.51%	
AM9	5850	HEAD	11/22/2025	19.9	19.0	0.05	1066	7668	1681	3.690	79.800	73.800	-7.52%	
AM9	5850	HEAD	01/28/2026	19.5	19.0	0.05	1066	7668	1681	4.120	77.400	82.400	6.46%	
AM2	6500	HEAD	11/03/2025	22.1	20.7	0.025	1018	3837	793	7.370	292.000	294.800	0.96%	34.4
														1310
														1376
														5.04%

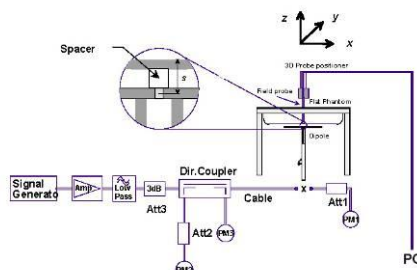


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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9.3 Power Density Test System Verification

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

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

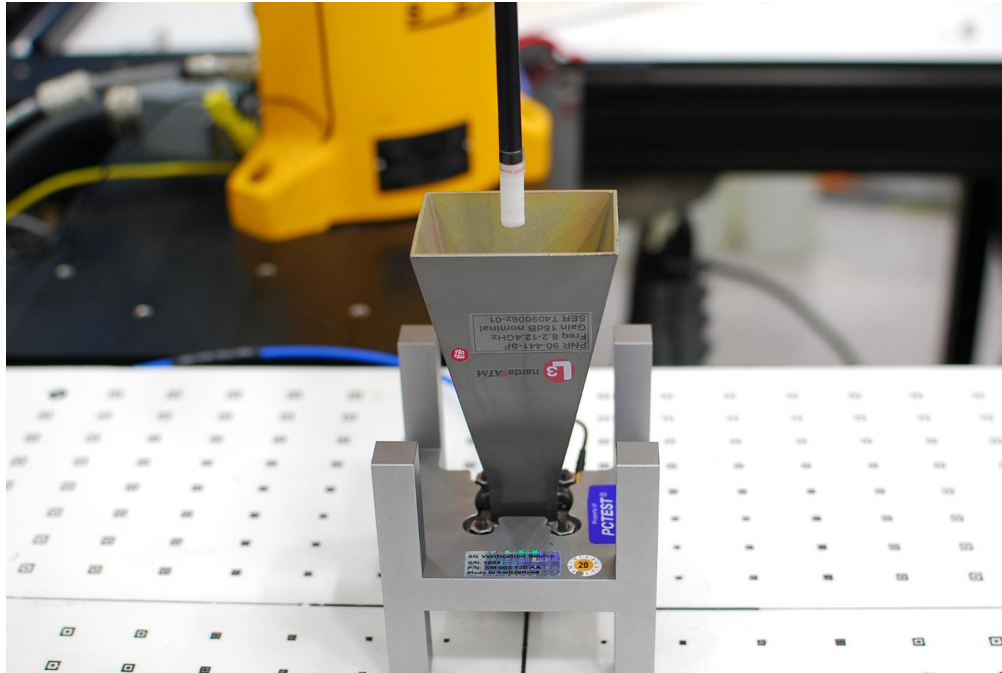


Figure 9-3
System Verification Setup Photo

Table 9-3
10 GHz Verification Results

System Verification												
System	Frequency (GHz)	Date	Source S/N	DAE S/N	Probe S/N	Prad (mW)	Normal psPD (W/m² over 4 cm²)		Deviation (dB)	Total psPD (W/m² over 4 cm²)		Deviation (dB)
							Measured	Target		Measured	Target	
AM5	10	10/03/2025	1004	1402	9364	93.3	60.10	54.60	0.417	60.30	55.60	0.352
AM5	10	12/01/2025	1004	1402	9364	93.3	58.80	54.60	0.322	59.00	55.60	0.258

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 2

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 850	RMC	2	H473H	1:1	0.00	836.60	4132	24.80	23.50	Back	5	0.820	0.533	1.349	1.106	0.719	0.691	24.20	0.960	0.600	
Body	UMTS 850	RMC	2	H473H	1:1	0.02	836.60	4183	24.80	23.50	Back	5	0.856	0.549	1.349	1.155	0.741	0.722	24.20	1.000	0.625	
Body	UMTS 850	RMC	2	H473H	1:1	0.01	846.60	4233	24.80	23.56	Back	5	0.833	0.532	1.330	1.108	0.708	0.693	24.20	0.960	0.600	
Body	UMTS 850	RMC	2	H473H	1:1	-0.01	846.60	4233	24.80	23.56	Top	5	0.021	0.014	1.330	0.028	0.019	0.018	24.20	0.020	0.013	
Body	UMTS 850	RMC	2	H473H	1:1	0.06	846.60	4233	24.80	23.56	Bottom	5	0.511	0.265	1.330	0.680	0.352	0.425	24.20	0.590	0.369	
Body	UMTS 850	RMC	2	H473H	1:1	-0.07	846.60	4233	24.80	23.56	Right	5	0.432	0.284	1.330	0.575	0.378	0.359	24.20	0.500	0.313	
Body	UMTS 850	RMC	2	H473H	1:1	0.01	846.60	4233	24.80	23.56	Left	5	0.098	0.038	1.330	0.077	0.051	0.048	24.20	0.070	0.044	
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 10-2 Antenna 4

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 850	RMC	4	96RHX	1:1	0.00	826.40	4132	24.50	23.42	Back	5	0.853	0.533	1.282	1.094	0.683	0.684	23.90	0.940	0.588	A1
Body	UMTS 850	RMC	4	96RHX	1:1	-0.09	836.60	4183	24.50	23.52	Back	5	0.918	0.571	1.253	1.150	0.715	0.719	23.90	0.980	0.613	
Body	UMTS 850	RMC	4	96RHX	1:1	-0.08	846.60	4233	24.50	23.43	Back	5	0.913	0.561	1.168	1.279	0.718	0.730	23.90	1.000	0.625	
Body	UMTS 850	RMC	4	96RHX	1:1	0.03	836.60	4183	24.50	23.52	Top	5	0.409	0.208	1.253	0.512	0.265	0.330	23.90	0.440	0.275	
Body	UMTS 850	RMC	4	96RHX	1:1	-0.09	836.60	4183	24.50	23.52	Bottom	5	0.035	0.024	1.253	0.044	0.030	0.028	23.90	0.040	0.025	
Body	UMTS 850	RMC	4	96RHX	1:1	0.01	836.60	4183	24.50	23.52	Right	5	0.043	0.029	1.253	0.054	0.036	0.034	23.90	0.050	0.031	
Body	UMTS 850	RMC	4	96RHX	1:1	0.09	836.60	4183	24.50	23.52	Left	5	0.346	0.225	1.253	0.434	0.282	0.271	23.90	0.370	0.231	
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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10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 1b

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	1b	9PFD4	1:1	-0.03	1712.40	1312	19.60	19.16	Back	5	0.756	0.349	1.107	0.837	0.386	0.523	19.20	0.760	0.475	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	-0.05	1732.40	1412	19.60	19.71	Back	5	0.869	0.396	1.094	0.940	0.433	0.588	19.20	0.850	0.531	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	-0.04	1752.60	1513	19.60	19.11	Back	5	0.837	0.386	1.119	0.937	0.432	0.586	19.20	0.850	0.531	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	0.09	1732.40	1412	19.60	19.21	Top	5	0.003	0.002	1.094	0.003	0.002	0.002	19.20	0.000	0.000	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	-0.01	1712.40	1312	19.60	19.16	Bottom	5	0.895	0.421	1.107	0.991	0.466	0.619	19.20	0.900	0.563	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	-0.01	1732.40	1412	19.60	19.71	Bottom	5	0.979	0.460	1.094	1.071	0.503	0.669	19.20	0.970	0.606	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	-0.01	1752.60	1513	19.60	19.11	Bottom	5	0.985	0.463	1.119	1.102	0.518	0.689	19.20	1.000	0.625	A2
Body	UMTS 1750	RMC	1b	9PFD4	1:1	0.03	1732.40	1412	19.60	19.21	Right	5	0.013	0.007	1.094	0.014	0.008	0.009	19.20	0.010	0.006	
Body	UMTS 1750	RMC	1b	9PFD4	1:1	-0.09	1732.40	1412	19.60	19.21	Left	5	0.051	0.030	1.094	0.056	0.033	0.035	19.20	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																						

Table 10-4 Antenna 2

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	2	34C7C	1:1	0.01	1752.60	1513	16.80	16.38	Back	5	0.585	0.292	1.102	0.645	0.322	0.403	16.80	0.630	0.394	
Body	UMTS 1750	RMC	2	34C7C	1:1	0.09	1712.40	1312	16.80	16.38	Top	5	0.080	0.000	1.102	0.000	0.000	0.000	16.80	0.000	0.000	
Body	UMTS 1750	RMC	2	34C7C	1:1	-0.01	1712.40	1312	16.80	16.29	Bottom	5	0.707	0.352	1.125	0.795	0.396	0.497	16.80	0.780	0.488	
Body	UMTS 1750	RMC	2	34C7C	1:1	-0.01	1732.40	1412	16.80	16.27	Bottom	5	0.812	0.403	1.130	0.918	0.455	0.574	16.80	0.900	0.563	
Body	UMTS 1750	RMC	2	34C7C	1:1	0.01	1752.60	1513	16.80	16.38	Bottom	5	0.925	0.451	1.102	1.019	0.497	0.637	16.80	1.000	0.625	
Body	UMTS 1750	RMC	2	34C7C	1:1	0.08	1752.60	1513	16.80	16.38	Right	5	0.039	0.019	1.102	0.049	0.021	0.027	16.80	0.040	0.025	
Body	UMTS 1750	RMC	2	34C7C	1:1	0.04	1752.60	1513	16.80	16.38	Left	5	0.001	0.000	1.102	0.001	0.000	0.001	16.80	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 10-5 Antenna 3b

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	3b	13V46	1:1	-0.01	1712.40	1312	19.30	18.33	Back	5	0.723	0.343	1.250	0.904	0.429	0.565	19.30	0.892	0.558	
Body	UMTS 1750	RMC	3b	13V46	1:1	-0.01	1732.40	1412	19.30	18.36	Back	5	0.712	0.337	1.342	0.884	0.419	0.553	19.30	0.873	0.546	
Body	UMTS 1750	RMC	3b	13V46	1:1	-0.02	1752.60	1513	19.30	18.37	Back	5	0.739	0.337	1.239	0.916	0.418	0.573	19.30	0.904	0.565	
Body	UMTS 1750	RMC	3b	13V46	1:1	0.00	1712.40	1312	19.30	18.33	Top	5	0.810	0.400	1.250	1.013	0.500	0.633	19.30	1.000	0.625	
Body	UMTS 1750	RMC	3b	13V46	1:1	0.00	1732.40	1412	19.30	18.36	Top	5	0.755	0.372	1.342	0.938	0.462	0.586	19.30	0.936	0.579	
Body	UMTS 1750	RMC	3b	13V46	1:1	0.00	1752.60	1513	19.30	18.37	Top	5	0.734	0.360	1.239	0.909	0.466	0.568	19.30	0.897	0.561	
Body	UMTS 1750	RMC	3b	13V46	1:1	0.06	1752.60	1513	19.30	18.37	Bottom	5	0.004	0.002	1.239	0.005	0.002	0.003	19.30	0.005	0.003	
Body	UMTS 1750	RMC	3b	13V46	1:1	-0.18	1752.60	1513	19.30	18.37	Right	5	0.054	0.031	1.239	0.067	0.038	0.042	19.30	0.066	0.041	
Body	UMTS 1750	RMC	3b	13V46	1:1	0.07	1752.60	1513	19.30	18.37	Left	5	0.011	0.006	1.239	0.014	0.007	0.009	19.30	0.014	0.009	
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 10-6 Antenna 4

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	4	34C7C	1:1	-0.01	1752.60	1513	15.80	14.93	Back	5	0.518	0.241	1.222	0.633	0.295	0.396	15.40	0.570	0.356	
Body	UMTS 1750	RMC	4	34C7C	1:1	0.00	1712.40	1312	15.80	14.87	Top	5	0.674	0.315	1.239	0.835	0.390	0.522	15.40	0.750	0.469	
Body	UMTS 1750	RMC	4	34C7C	1:1	0.00	1732.40	1412	15.80	14.85	Top	5	0.785	0.362	1.245	0.977	0.451	0.611	15.40	0.880	0.550	
Body	UMTS 1750	RMC	4	34C7C	1:1	0.00	1752.60	1513	15.80	14.93	Top	5	0.908	0.418	1.222	1.110	0.511	0.694	15.40	1.000	0.625	
Body	UMTS 1750	RMC	4	34C7C	1:1	0.01	1752.60	1513	15.80	14.93	Bottom	5	0.003	0.001	1.222	0.004	0.001	0.003	15.40	0.000	0.000	
Body	UMTS 1750	RMC	4	34C7C	1:1	0.09	1752.60	1513	15.80	14.93	Right	5	0.001	0.000	1.222	0.001	0.000	0.001	15.40	0.000	0.000	
Body	UMTS 1750	RMC	4	34C7C	1:1	-0.16	1752.60	1513	15.80	14.93	Left	5	0.058	0.030	1.222	0.071	0.037	0.044	15.40	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																						

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10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 1b

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	1b	4X93C	1:1	-0.01	1852.40	9262	18.70	17.39	Back	5	0.785	0.352	1.352	1.061	0.476	0.663	18.10	0.920	0.575	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.00	1880.00	9400	18.70	17.45	Back	5	0.816	0.374	1.334	1.089	0.499	0.681	18.10	0.940	0.588	
Body	UMTS 1900	RMC	1b	4X93C	1:1	-0.01	1907.60	9538	18.70	17.32	Back	5	0.843	0.390	1.374	1.158	0.536	0.724	18.10	1.000	0.625	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.06	1880.00	9400	18.70	17.45	Top	5	0.008	0.004	1.334	0.011	0.005	0.007	18.10	0.010	0.006	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.02	1852.40	9262	18.70	17.39	Bottom	5	0.731	0.348	1.352	0.988	0.470	0.618	18.10	0.850	0.531	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.00	1880.00	9400	18.70	17.45	Bottom	5	0.698	0.331	1.334	0.911	0.442	0.582	18.10	0.800	0.500	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.06	1907.60	9538	18.70	17.32	Bottom	5	0.786	0.378	1.374	1.080	0.519	0.675	18.10	0.930	0.581	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.20	1880.00	9400	18.70	17.45	Right	5	0.012	0.006	1.334	0.016	0.008	0.010	18.10	0.010	0.006	
Body	UMTS 1900	RMC	1b	4X93C	1:1	0.07	1880.00	9400	18.70	17.45	Left	5	0.042	0.024	1.334	0.056	0.032	0.035	18.10	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									

Table 10-8 Antenna 2

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	2	GK30	1:1	0.00	1880.00	9400	17.30	16.66	Back	5	0.578	0.285	1.159	0.670	0.330	0.419	17.00	0.620	0.388	
Body	UMTS 1900	RMC	2	GK30	1:1	0.08	1880.00	9400	17.30	16.66	Top	5	0.000	0.000	1.159	0.000	0.000	0.000	17.00	0.000	0.000	
Body	UMTS 1900	RMC	2	GK30	1:1	0.00	1852.40	9262	17.30	16.64	Bottom	5	0.915	0.452	1.164	1.065	0.526	0.666	17.00	0.990	0.619	A3
Body	UMTS 1900	RMC	2	GK30	1:1	-0.02	1880.00	9400	17.30	16.66	Bottom	5	0.904	0.444	1.159	1.048	0.515	0.655	17.00	0.970	0.606	
Body	UMTS 1900	RMC	2	GK30	1:1	0.00	1907.60	9538	17.30	16.44	Bottom	5	0.885	0.430	1.219	1.079	0.524	0.674	17.00	1.000	0.625	
Body	UMTS 1900	RMC	2	GK30	1:1	-0.01	1880.00	9400	17.30	16.66	Right	5	0.049	0.024	1.159	0.057	0.028	0.036	17.00	0.050	0.031	
Body	UMTS 1900	RMC	2	GK30	1:1	0.06	1880.00	9400	17.30	16.66	Left	5	0.004	0.001	1.159	0.005	0.001	0.003	17.00	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 10-9 Antenna 3b

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	3b	N179F	1:1	0.01	1852.40	9262	19.10	18.12	Back	5	0.780	0.365	1.253	0.977	0.457	0.611	18.90	0.912	0.570	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.00	1880.00	9400	19.10	18.07	Back	5	0.809	0.378	1.268	1.026	0.479	0.641	18.90	0.958	0.599	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.00	1907.60	9538	19.10	17.95	Back	5	0.818	0.386	1.303	1.066	0.503	0.666	18.90	0.995	0.622	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.00	1852.40	9262	19.10	18.12	Top	5	0.806	0.391	1.253	1.010	0.490	0.631	18.90	0.943	0.589	
Body	UMTS 1900	RMC	3b	N179F	1:1	-0.01	1880.00	9400	19.10	18.07	Top	5	0.794	0.388	1.268	1.007	0.492	0.629	18.90	0.940	0.588	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.00	1907.60	9538	19.10	17.95	Top	5	0.822	0.401	1.303	1.071	0.523	0.669	18.90	1.000	0.625	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.02	1852.40	9262	19.10	18.12	Bottom	5	0.006	0.003	1.253	0.008	0.004	0.005	18.90	0.007	0.004	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.06	1852.40	9262	19.10	18.12	Right	5	0.055	0.030	1.253	0.069	0.038	0.043	18.90	0.064	0.040	
Body	UMTS 1900	RMC	3b	N179F	1:1	0.14	1852.40	9262	19.10	18.12	Left	5	0.009	0.005	1.253	0.011	0.006	0.007	18.90	0.010	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 10-10 Antenna 4

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	4	60NCW	1:1	0.00	1907.60	9538	16.50	15.52	Back	5	0.476	0.234	1.253	0.596	0.293	0.373	16.00	0.520	0.325	
Body	UMTS 1900	RMC	4	60NCW	1:1	-0.01	1852.40	9262	16.50	15.51	Top	5	0.844	0.406	1.256	1.060	0.510	0.663	16.00	0.930	0.581	
Body	UMTS 1900	RMC	4	60NCW	1:1	-0.01	1880.00	9400	16.50	15.43	Top	5	0.892	0.426	1.279	1.141	0.545	0.713	16.00	1.000	0.625	
Body	UMTS 1900	RMC	4	60NCW	1:1	0.00	1907.60	9538	16.50	15.52	Top	5	0.810	0.396	1.253	1.015	0.496	0.634	16.00	0.890	0.556	
Body	UMTS 1900	RMC	4	60NCW	1:1	0.04	1907.60	9538	16.50	15.52	Bottom	5	0.002	0.000	1.253	0.003	0.000	0.002	16.00	0.000	0.000	
Body	UMTS 1900	RMC	4	60NCW	1:1	0.02	1907.60	9538	16.50	15.52	Right	5	0.003	0.001	1.253	0.004	0.001	0.003	16.00	0.000	0.000	
Body	UMTS 1900	RMC	4	60NCW	1:1	0.03	1907.60	9538	16.50	15.52	Left	5	0.082	0.042	1.253	0.103	0.053	0.064	16.00	0.090	0.056	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 2

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 Tuning Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	-0.02	680.50	133297	0.0	25.00	24.64	1	50	Back	5	0.861	0.491	1.086	0.935	0.533	0.584				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.01	680.50	133297	0.8	24.20	23.63	50	0	Back	5	0.727	0.424	1.089	0.792	0.462	0.495				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	-0.02	680.50	133297	0.8	24.20	23.81	100	0	Back	5	0.741	0.431	1.094	0.811	0.472	0.507				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.03	680.50	133297	0.0	25.00	24.64	1	50	Top	5	0.028	0.021	1.086	0.030	0.023	0.019				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.04	680.50	133297	0.8	24.20	23.83	50	0	Top	5	0.014	0.009	1.089	0.015	0.010	0.009				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	-0.01	680.50	133297	0.0	25.00	24.64	1	50	Bottom	5	0.685	0.377	1.086	0.744	0.409	0.465				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.02	680.50	133297	0.8	24.20	23.83	50	0	Bottom	5	0.468	0.266	1.089	0.510	0.290	0.319				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.01	680.50	133297	0.0	25.00	24.64	1	50	Right	5	0.393	0.222	1.086	0.427	0.241	0.267				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	-0.05	680.50	133297	0.8	24.20	23.83	50	0	Right	5	0.279	0.170	1.089	0.304	0.185	0.190				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.07	680.50	133297	0.0	25.00	24.64	1	50	Left	5	0.045	0.017	1.086	0.049	0.035	0.031				
Body	LTE Band 71	20	QPSK	2	OC6GR	1:1	0.01	680.50	133297	0.8	24.20	23.83	50	0	Left	5	0.025	0.017	1.089	0.027	0.019	0.017				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-12 Antenna 4

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 Tuning Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.00	680.50	133297	0.0	25.50	24.71	1	50	Back	5	0.980	0.582	1.197	1.173	0.697	0.723	24.50	1.000	0.625	A4
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.01	680.50	133297	0.8	24.70	24.30	50	25	Back	5	0.906	0.542	1.086	0.993	0.594	0.621	24.50	0.850	0.531	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	-0.01	680.50	133297	0.8	24.70	24.21	100	0	Back	5	0.920	0.548	1.119	1.029	0.613	0.643	24.50	0.880	0.550	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.02	680.50	133297	0.0	25.50	24.72	1	50	Top	5	0.665	0.371	1.197	0.786	0.444	0.468	24.50	0.680	0.425	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	-0.01	680.50	133297	0.8	24.70	24.30	50	25	Top	5	0.518	0.286	1.086	0.568	0.323	0.355	24.50	0.480	0.300	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.19	680.50	133297	0.0	25.50	24.72	1	50	Bottom	5	0.065	0.044	1.197	0.078	0.053	0.059	24.50	0.070	0.044	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.03	680.50	133297	0.8	24.70	24.30	50	25	Bottom	5	0.044	0.023	1.086	0.048	0.036	0.030	24.50	0.040	0.025	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	-0.03	680.50	133297	0.0	25.50	24.72	1	50	Right	5	0.039	0.027	1.197	0.047	0.032	0.029	24.50	0.040	0.025	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	-0.02	680.50	133297	0.8	24.70	24.30	50	25	Right	5	0.034	0.024	1.086	0.037	0.026	0.023	24.50	0.030	0.019	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.00	680.50	133297	0.0	25.50	24.72	1	50	Left	5	0.407	0.226	1.197	0.487	0.282	0.304	24.50	0.420	0.260	
Body	LTE Band 71	20	QPSK	4	969HX	1:1	0.00	680.50	133297	0.8	24.70	24.30	50	25	Left	5	0.380	0.220	1.086	0.416	0.241	0.260	24.50	0.350	0.219	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 2

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 Tuning Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 12	10	QPSK	2	N179F	1:1	-0.02	707.50	23095	0.0	25.00	23.85	1	0	Back	5	0.848	0.497	1.303	1.105	0.648	0.691	24.50	1.000	0.625	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	-0.01	707.50	23095	0.8	24.20	23.36	25	25	Back	5	0.706	0.460	1.213	0.966	0.565	0.604	23.80	0.870	0.544	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	0.00	707.50	23095	0.8	24.20	23.30	50	0	Back	5	0.800	0.469	1.230	0.984	0.577	0.615	23.80	0.890	0.556	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	0.03	707.50	23095	0.0	25.00	23.85	1	0	Top	5	0.026	0.012	1.303	0.034	0.016	0.021	24.50	0.030	0.019	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	0.06	707.50	23095	0.8	24.20	23.36	25	25	Top	5	0.020	0.011	1.213	0.024	0.013	0.015	23.80	0.020	0.013	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	-0.02	707.50	23095	0.0	25.00	23.85	1	0	Bottom	5	0.512	0.274	1.303	0.667	0.357	0.417	24.50	0.600	0.375	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	0.06	707.50	23095	0.8	24.20	23.36	25	25	Bottom	5	0.463	0.254	1.213	0.562	0.308	0.351	23.80	0.510	0.319	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	-0.05	707.50	23095	0.0	25.00	23.85	1	0	Right	5	0.343	0.206	1.303	0.447	0.268	0.279	24.50	0.400	0.260	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	0.05	707.50	23095	0.8	24.20	23.36	25	25	Right	5	0.335	0.200	1.213	0.406	0.243	0.254	23.80	0.370	0.231	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	0.03	707.50	23095	0.0	25.00	23.85	1	0	Left	5	0.037	0.021	1.303	0.042	0.027	0.026	24.50	0.040	0.026	
Body	LTE Band 12	10	QPSK	2	N179F	1:1	-0.03	707.50	23095	0.8	24.20	23.36	25	25	Left	5	0.037	0.017	1.213	0.033	0.021	0.021	23.80	0.030	0.019	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-14 Antenna 4

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 Tuning Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #		
Body	LTE Band 12	10	QPSK	4	969HX	1:1	-0.02	707.50	23095	0.0	25.20	24.31	1	0	Back	5	0.962	0.573	1.227	1.180	0.701	0.738	24.50	1.000	0.625	A5		
Body	LTE Band 12	10	QPSK	4	969HX	1:1	0.01	707.50	23095	0.5	24.70	23.89	25	0	Back	5	0.876	0.509	1.205	1.056	0.613	0.660	24.50	0.890	0.556			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	0.08	707.50	23095	0.5	24.70	23.79	50	0	Back	5	0.874	0.505	1.231	1.078	0.623	0.674	24.50	0.910	0.569			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	-0.06	707.50	23095	0.0	25.20	24.31	1	0	Top	5	0.593	0.324	1.227	0.778	0.398	0.455	24.50	0.420	0.388			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	0.02	707.50	23095	0.5	24.70	23.89	25	0	Top	5	0.546	0.290	1.205	0.658	0.355	0.411	24.50	0.560	0.350			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	-0.07	707.50	23095	0.0	25.20	24.31	1	0	Bottom	5	0.009	0.006	1.227	0.011	0.007	0.007	24.50	0.010	0.006			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	0.08	707.50	23095	0.5	24.70	23.89	25	0	Bottom	5	0.007	0.005	1.205	0.008	0.006	0.006	24.50	0.010	0.006			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	0.00	707.50	23095	0.0	25.20	24.31	1	0	Right	5	0.030	0.020	1.227	0.037	0.025	0.023	24.50	0.030	0.019			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	-0.01	707.50	23095	0.5	24.70	23.89	25	0	Right	5	0.028	0.019	1.205	0.034	0.023	0.021	24.50	0.030	0.019			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	0.00	707.50	23095	0.0	25.20	24.31	1	0	Left	5	0.331	0.187	1.227	0.406	0.229	0.254	24.50	0.340	0.213			
Body	LTE Band 12	10	QPSK	4	969HX	1:1	-0.03	707.50	23095	0.5	24.70	23.89	25		Left	5	0.304	0.171	1.205	0.366	0.208	0.229	24.50	0.310	0.194			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					Body							
Spatial Peak																					1.6 W/kg (mW/g)							
Uncontrolled (General Population Limitation)																												

10.6 LTE Band 13 Standalone SAR

Table 10-15 Antenna 2

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 13	10	QPSK	2	N179F	1:1	-0.01	782.00	23230	0.0	25.10	23.74	1	25	Back	5	0.867	0.517	1.368	1.186	0.707	0.741	24.40	1.000	0.625	A6
Body	LTE Band 13	10	QPSK	2	N179F	1:1	-0.01	782.00	23230	0.0	24.20	23.21	25	25	Back	5	0.789	0.472	1.256	0.991	0.593	0.619	23.50	0.940	0.525	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	-0.01	782.00	23230	0.0	24.20	23.20	50	0	Back	5	0.806	0.484	1.229	1.015	0.609	0.634	23.50	0.960	0.538	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	-0.03	782.00	23230	0.0	25.10	23.74	1	25	Top	5	0.015	0.010	1.368	0.021	0.014	0.013	24.40	0.020	0.013	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	0.00	782.00	23230	0.0	24.20	23.21	25	25	Top	5	0.012	0.008	1.256	0.015	0.010	0.009	23.50	0.010	0.006	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	-0.03	782.00	23230	0.0	25.10	23.74	1	25	Bottom	5	0.900	0.528	1.368	0.807	0.408	0.504	24.40	0.680	0.425	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	-0.03	782.00	23230	0.0	24.20	23.21	25	25	Bottom	5	0.470	0.244	1.256	0.590	0.306	0.369	23.50	0.500	0.313	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	0.00	782.00	23230	0.0	25.10	23.74	1	25	Right	5	0.886	0.518	1.368	0.528	0.327	0.310	24.40	0.500	0.281	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	-0.01	782.00	23230	0.0	24.20	23.21	25	25	Right	5	0.548	0.290	1.256	0.412	0.257	0.258	23.50	0.300	0.219	
Body	LTE Band 13	10	QPSK	2	N179F	1:1	0.02	782.00	23230	0.0	25.10	23.74	1	25	Left	5	0.040	0.026	1.368	0.048	0.031	0.030	24.40	0.050	0.031	
ANSI/IEEE C63.1-1993 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-16 Antenna 4

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 13	10	QPSK	4	Y9M4A	1:1	0.03	782.00	23230	0.0	25.30	24.13	1	49	Back	5	0.830	0.496	1.250	1.018	0.620	0.649	25.20	1.000	0.625	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	-0.00	782.00	23230	0.6	24.70	24.08	25	0	Back	5	0.805	0.493	1.151	0.928	0.566	0.580	24.60	0.904	0.559	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	0.00	782.00	23230	0.6	24.70	24.05	50	0	Back	5	0.754	0.460	1.161	0.875	0.534	0.547	24.60	0.843	0.527	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	-0.02	782.00	23230	0.0	25.30	24.18	1	49	Top	5	0.575	0.295	1.250	0.719	0.369	0.449	25.20	0.699	0.443	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	-0.02	782.00	23230	0.6	24.70	24.08	25	0	Top	5	0.537	0.278	1.151	0.619	0.318	0.387	24.60	0.586	0.373	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	-0.06	782.00	23230	0.0	25.30	24.13	1	49	Bottom	5	0.048	0.032	1.250	0.060	0.040	0.038	25.20	0.058	0.036	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	0.02	782.00	23230	0.6	24.70	24.08	25	0	Bottom	5	0.040	0.026	1.151	0.046	0.030	0.028	24.60	0.044	0.026	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	0.18	782.00	23230	0.0	25.30	24.13	1	49	Right	5	0.550	0.280	1.250	0.650	0.351	0.360	25.20	0.548	0.352	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	0.21	782.00	23230	0.6	24.70	24.08	25	0	Right	5	0.032	0.021	1.151	0.037	0.024	0.023	24.60	0.036	0.023	
Body	LTE Band 13	10	QPSK	4	Y9M4A	1:1	0.00	782.00	23230	0.0	24.70	24.08	1	49	Left	5	0.353	0.214	1.250	0.407	0.247	0.254	24.60	0.392	0.245	
ANSI/IEEE C63.1-1993 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 2

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	2	FF92V	1:1	0.01	793.00	23330	0.0	25.10	24.18	1	25	Back	5	0.882	0.516	1.298	1.090	0.618	0.681	24.80	1.000	0.625	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.01	793.00	23330	0.9	24.20	23.42	25	0	Back	5	0.728	0.429	1.197	0.871	0.514	0.544	23.80	0.900	0.500	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.01	793.00	23330	0.9	24.20	23.43	50	0	Back	5	0.721	0.428	1.199	0.864	0.513	0.540	23.80	0.780	0.494	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.05	793.00	23330	0.0	25.10	24.18	1	25	Top	5	0.012	0.008	1.298	0.015	0.010	0.009	24.80	0.010	0.006	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.03	793.00	23330	0.9	24.20	23.42	25	0	Top	5	0.010	0.007	1.197	0.012	0.008	0.008	23.80	0.010	0.006	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	-0.05	793.00	23330	0.0	25.10	24.18	1	25	Bottom	5	0.518	0.275	1.298	0.440	0.340	0.400	24.80	0.390	0.369	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.00	793.00	23330	0.0	24.20	23.42	25	0	Bottom	5	0.456	0.236	1.197	0.546	0.282	0.341	23.80	0.500	0.313	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.13	793.00	23330	0.0	25.10	24.18	1	25	Right	5	0.942	0.490	1.298	0.423	0.250	0.264	24.80	0.390	0.244	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.07	793.00	23330	0.0	24.20	23.42	25	0	Right	5	0.301	0.188	1.197	0.380	0.225	0.225	23.80	0.330	0.206	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.20	793.00	23330	0.0	25.10	24.18	1	25	Left	5	0.052	0.021	1.298	0.040	0.026	0.025	24.80	0.040	0.025	
Body	LTE Band 14	10	QPSK	2	FF92V	1:1	0.05	793.00	23330	0.9	24.20	23.42	25	0	Left	5	0.008	0.008	1.199	0.004	0.002	0.021	23.80	0.000	0.019	
ANSI/IEEE C63.1-1993 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-18 Antenna 4

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	4	H9C4H	1:1	-0.01	793.00	23330	0.0	25.30	24.44	1	49	Back	5	0.971	0.576	1.219	1.184	0.702	0.740	24.80	1.000	0.625	A7	
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.00	793.00	23330	0.0	25.30	24.44	1	49	Back	5	0.899	0.517	1.219	1.049	0.625	0.774	24.80	0.985	0.606		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.01	793.00	23330	0.6	24.70	23.89	25	0	Back	5	0.868	0.517	1.208	1.049	0.625	0.656	24.80	0.990	0.556		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	0.00	793.00	23330	0.6	24.70	23.87	50	0	Back	5	0.267	0.131	1.211	0.148	0.014	0.015	24.80	0.090	0.056		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	0.04	793.00	23330	0.0	25.30	24.44	1	49	Top	5	0.987	0.508	1.210	1.078	0.375	0.465	24.80	0.640	0.381		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.00	793.00	23330	0.6	24.70	23.89	25	0	Top	5	0.868	0.517	1.208	1.049	0.625	0.656	24.80	0.990	0.556		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.05	793.00	23330	0.0	25.30	24.44	1	49	Bottom	5	0.905	0.517	1.219	1.031	0.021	0.019	24.80	0.030	0.019		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.09	793.00	23330	0.6	24.70	23.89	25	0	Bottom	5	0.018	0.012	1.208	0.022	0.014	0.014	24.80	0.020	0.013		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.00	793.00	23330	0.0	25.30	24.44	1	49	Right	5	0.941	0.480	1.210	1.063	0.013	0.013	24.80	0.010	0.013		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.17	793.00	23330	0.6	24.70	23.89	25	0	Right	5	0.030	0.020	1.208	0.036	0.024	0.023	24.80	0.030	0.019		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	0.01	793.00	23330	0.0	25.30	24.44	1	49	Left	5	0.423	0.270	1.210	0.516	0.329	0.323	24.80	0.448	0.275		
Body	LTE Band 14	10	QPSK	4	H9C4H	1:1	-0.08	793.00	23330	0.6	24.70	23.89	25	0	Left	5	0.346	0.215	1.208	0.418	0.260	0.261	24.80	0.350	0.219		
ANSI/IEEE C63.1902 - SAFETY LIMIT																	Body										
Spatial Peak																	1.6 W/kg (mW/g)										
Unmodulated CW, 100% Modulation																	1.0 W/kg (mW/g)										

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 2

[illegible]

Table 10-20 Antenna 4

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 26	10	OPSK	4	60NCW	1:1	-0.01	819.00	26740	0.0	24.50	23.74	1	25	Back	5	0.743	0.476	1.191	0.885	0.567	0.553	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.05	831.50	26865	0.0	24.50	23.73	1	25	Back	5	0.691	0.460	1.194	0.825	0.549	0.516	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.02	844.00	26990	0.0	24.50	23.71	1	25	Back	5	0.783	0.437	1.199	0.807	0.524	0.504	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	0.02	819.00	26740	0.0	24.50	23.75	25	0	Back	5	0.599	0.401	1.189	0.712	0.477	0.445	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.01	831.50	26865	0.0	24.50	23.72	25	0	Back	5	0.665	0.442	1.197	0.796	0.529	0.498	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	0.01	844.00	26990	0.0	24.50	23.70	25	0	Back	5	0.658	0.432	1.202	0.791	0.519	0.494	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	0.00	831.50	26865	0.0	24.50	23.72	50	0	Back	5	0.486	0.420	1.187	0.614	0.379	0.509	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.02	819.00	26740	0.0	24.50	23.74	1	25	Top	5	0.411	0.204	1.191	0.490	0.243	0.306	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.02	819.00	26740	0.0	24.50	23.75	25	0	Top	5	0.390	0.193	1.189	0.464	0.229	0.290	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.11	819.00	26740	0.0	24.50	23.74	1	25	Bottom	5	0.012	0.007	1.191	0.014	0.008	0.009	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.04	819.00	26740	0.0	24.50	23.75	25	0	Bottom	5	0.011	0.007	1.189	0.013	0.008	0.008	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	0.01	819.00	26740	0.0	24.50	23.74	1	25	Right	5	0.034	0.021	1.193	0.040	0.027	0.025	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	0.01	819.00	26740	0.0	24.50	23.75	1	25	Right	5	0.035	0.022	1.189	0.042	0.026	0.026	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.03	819.00	26740	0.0	24.50	23.74	1	25	Left	5	0.319	0.205	1.191	0.380	0.244	0.238	
Body	LTE Band 26	10	OPSK	4	60NCW	1:1	-0.09	819.00	26740	0.0	24.50	23.75	25	0	Left	5	0.259	0.159	1.189	0.308	0.188	0.193	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Body					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 2

[illegible]

Table 10-22 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfBt [dBm]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RB Offset	Test Position	Spacing [mm]	Measured SAR [W/kg]	Measured SAR [W/kg]	Power Scaling Factor	Reported SAR [W/kg]	Reported SAR [W/kg]	Reported Exposure Rate [SAR]	Simultaneous Time-up Power	Simultaneous Reported SAR [W/kg]	Simultaneous Reported Exposure Rate [SAR]	Pit #
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.0	836.50	25275	0.0	24.50	23.75	1	0	Back	S	0.850	0.531	1.389	1.011	0.631	0.632	24.40	0.369	0.606	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.0	836.50	25275	0.0	24.50	23.77	25	0	Top	S	0.882	0.559	1.383	1.043	0.661	0.662	24.40	0.400	0.625	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.0	836.50	25275	0.0	24.50	23.76	45	0	Back	S	0.868	0.540	1.256	1.033	0.617	0.625	24.40	0.380	0.618	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.13	836.50	25275	0.0	24.50	23.75	1	0	Top	S	0.742	0.436	1.389	0.388	0.150	0.180	24.40	0.276	0.373	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.13	836.50	25275	0.0	24.50	23.77	25	0	Top	S	0.241	0.124	1.383	0.285	0.147	0.178	24.40	0.273	0.373	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.13	836.50	25275	0.0	24.50	23.77	25	0	Bottom	S	0.039	0.021	1.383	0.023	0.010	0.010	24.40	0.010	0.010	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.09	836.50	25275	0.0	24.50	23.77	25	0	Bottom	S	0.043	0.022	1.383	0.039	0.026	0.024	24.40	0.037	0.071	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.03	836.50	25275	0.0	24.50	23.75	1	0	Right	S	0.040	0.020	1.389	0.048	0.033	0.030	24.40	0.046	0.029	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	0.21	836.50	25275	0.0	24.50	23.77	25	0	Right	S	0.055	0.038	1.381	0.065	0.045	0.041	24.40	0.062	0.039	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.29	836.50	25275	0.0	24.50	23.77	25	0	Left	S	0.037	0.020	1.389	0.038	0.023	0.020	24.40	0.020	0.020	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.02	836.50	25275	0.0	24.50	23.77	25	0	Left	S	0.857	0.527	1.383	1.022	0.269	0.264	24.40	0.465	0.253	
Body	LTE Band 5	10	QPSK	4	96RHX	1:1	-0.02	836.50	25275	0.0	24.50	23.49	25	0	Back	S	0.801	0.493	1.262	1.011	0.622	0.632	24.40	0.369	0.606	
		5						829.10	25451				25	25												
ANSI/CES CH-1 1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Device - General Population																				1.6 W/kg (mW/g)						

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10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1b

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 66	20	QPSK	1b	99PD4	1:1	0.00	1720.00	132072	0.0	19.50	19.14	1	50	Back	5	0.709	0.340	1.112	0.788	0.378	0.493	19.10	0.690	0.431	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.10	1745.00	132322	0.0	19.50	19.16	1	50	Back	5	0.807	0.371	1.107	0.893	0.411	0.558	19.10	0.780	0.488	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.01	1720.00	132572	0.0	19.50	19.80	1	50	Back	5	0.751	0.360	1.175	0.882	0.423	0.551	19.10	0.770	0.481	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.00	1720.00	132072	0.0	19.50	19.14	50	50	Back	5	0.798	0.539	1.112	0.787	0.377	0.492	19.10	0.690	0.431	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.00	1745.00	132322	0.0	19.50	19.16	50	50	Back	5	0.724	0.347	1.107	0.801	0.384	0.501	19.10	0.700	0.438	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.05	1720.00	132572	0.0	19.50	19.11	50	50	Back	5	0.717	0.363	1.119	0.841	0.404	0.526	19.10	0.740	0.461	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.01	1745.00	132322	0.0	19.50	19.15	100	0	Back	5	0.729	0.351	1.109	0.808	0.389	0.505	19.10	0.710	0.444	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.04	1745.00	132322	0.0	19.50	19.16	1	50	Top	5	0.803	0.405	1.107	0.903	0.401	0.602	19.10	0.800	0.500	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.00	1745.00	132322	0.0	19.50	19.16	80	50	Top	5	0.803	0.400	1.107	0.903	0.402	0.602	19.10	0.800	0.500	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.02	1720.00	132072	0.0	19.50	19.14	1	50	Bottom	5	0.968	0.455	1.112	1.076	0.506	0.673	19.10	0.940	0.588	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.02	1745.00	132322	0.0	19.50	19.16	1	50	Bottom	5	0.952	0.442	1.107	1.054	0.489	0.659	19.10	0.920	0.575	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.00	1720.00	132572	0.0	19.50	19.80	1	50	Bottom	5	0.874	0.457	1.175	1.144	0.517	0.715	19.10	1.000	0.625	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.01	1720.00	132072	0.0	19.50	19.14	50	50	Bottom	5	0.974	0.458	1.112	1.083	0.509	0.677	19.10	0.950	0.594	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.02	1745.00	132322	0.0	19.50	19.16	50	50	Bottom	5	0.953	0.444	1.107	1.055	0.492	0.659	19.10	0.920	0.575	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.03	1720.00	132572	0.0	19.50	19.11	50	50	Bottom	5	0.963	0.451	1.119	1.078	0.505	0.674	19.10	0.940	0.588	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.02	1745.00	132322	0.0	19.50	19.15	100	0	Bottom	5	1.010	0.479	1.109	1.120	0.530	0.700	19.10	0.980	0.613	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.00	1745.00	132322	0.0	19.50	19.16	1	50	Right	5	0.921	0.426	1.107	1.017	0.490	0.621	19.10	0.900	0.560	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	0.18	1745.00	132322	0.0	19.50	19.15	50	50	Right	5	0.915	0.426	1.107	1.017	0.510	0.651	19.10	0.910	0.560	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.08	1745.00	132322	0.0	19.50	19.16	1	50	Left	5	0.062	0.036	1.107	0.069	0.040	0.043	19.10	0.060	0.038	
Body	LTE Band 66	20	QPSK	1b	99PD4	1:1	-0.01	1745.00	132322	0.0	19.50	19.16	50	50	Left	5	0.062	0.035	1.107	0.069	0.039	0.042	19.10	0.060	0.038	
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-24 Antenna 2

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 66	20	QPSK	2	GWX30	1:1	0.01	1745.00	132322	0.0	16.80	16.20	1	50	Back	5	0.578	0.287	1.148	0.664	0.319	0.415	16.10	0.560	0.350	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	-0.02	1745.00	132322	0.0	16.80	16.22	50	50	Back	5	0.562	0.279	1.143	0.642	0.319	0.401	16.10	0.540	0.338	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.01	1745.00	132322	0.0	16.80	16.20	1	50	Top	5	0.000	0.000	1.148	0.000	0.000	0.000	16.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.07	1745.00	132322	0.0	16.80	16.23	50	50	Top	5	0.000	0.000	1.143	0.000	0.000	0.000	16.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.04	1720.00	132072	0.0	16.80	16.09	1	50	Bottom	5	0.781	0.389	1.178	0.920	0.454	0.575	16.10	0.720	0.481	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	-0.01	1745.00	132322	0.0	16.80	16.20	1	50	Bottom	5	0.863	0.472	1.148	1.106	0.542	0.691	16.10	0.910	0.581	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.01	1720.00	132572	0.0	16.80	16.18	1	50	Bottom	5	1.001	0.503	1.153	1.088	0.580	0.743	16.10	0.950	0.619	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	-0.02	1720.00	132072	0.0	16.80	16.11	50	0	Bottom	5	0.795	0.391	1.187	0.928	0.456	0.580	16.10	0.780	0.488	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.00	1745.00	132322	0.0	16.80	16.22	50	0	Bottom	5	0.881	0.481	1.143	1.121	0.510	0.701	16.10	0.940	0.588	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.00	1720.00	132572	0.0	16.80	16.16	50	0	Bottom	5	1.009	0.502	1.159	1.086	0.582	0.746	16.10	1.000	0.625	A10
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.01	1745.00	132322	0.0	16.80	16.18	100	0	Bottom	5	0.943	0.463	1.153	1.087	0.534	0.679	16.10	0.910	0.569	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.12	1745.00	132322	0.0	16.80	16.20	1	50	Right	5	0.047	0.023	1.148	0.054	0.026	0.034	16.10	0.050	0.031	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.13	1745.00	132322	0.0	16.80	16.22	50	50	Right	5	0.046	0.021	1.143	0.053	0.024	0.034	16.10	0.050	0.031	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	-0.15	1745.00	132322	0.0	16.80	16.20	1	50	Left	5	0.002	0.001	1.148	0.002	0.001	0.001	16.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	2	GWX30	1:1	0.02	1745.00	132322	0.0	16.80	16.22	50	50	Left	5	0.003	0.002	1.143	0.003	0.002	0.002	16.10	0.000	0.000	
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-25 Antenna 3b

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 66	20	QPSK	3b	968HX	1:1	-0.03	1745.00	132322	0.0	19.30	18.45	1	50	Back	5	0.832	0.295	1.216	0.769	0.359	0.481	19.10	0.740	0.464	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.01	1745.00	132322	0.0	19.30	18.53	50	50	Back	5	0.831	0.295	1.194	0.783	0.352	0.471	19.10	0.730	0.456	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.02	1720.00	132072	0.0	19.30	18.38	1	50	Top	5	0.802	0.394	1.216	0.691	0.475	0.619	19.10	0.960	0.600	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	0.01	1745.00	132322	0.0	19.30	18.45	1	50	Top	5	0.781	0.374	1.216	0.650	0.455	0.594	19.10	0.920	0.575	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.01	1720.00	132572	0.0	19.30	18.11	1	50	Top	5	0.786	0.377	1.151	1.034	0.456	0.646	19.10	1.000	0.625	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	0.01	1720.00	132072	0.0	19.30	18.43	50	50	Top	5	0.789	0.379	1.222	0.688	0.465	0.605	19.10	0.940	0.588	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	0.00	1745.00	132322	0.0	19.30	18.53	50	50	Top	5	0.785	0.375	1.194	0.937	0.448	0.586	19.10	0.910	0.569	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.01	1720.00	132572	0.0	19.30	18.32	50	50	Top	5	0.787	0.362	1.251	0.849	0.454	0.593	19.10	0.920	0.575	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.01	1745.00	132322	0.0	19.30	18.43	1	50	Top	5	0.787	0.377	1.222	0.682	0.461	0.601	19.10	0.940	0.588	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	0.16	1745.00	132322	0.0	19.30	18.45	1	50	Bottom	5	0.003	0.003	1.216	0.004	0.001	0.003	19.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.15	1745.00	132322	0.0	19.30	18.53	1	50	Bottom	5	0.003	0.003	1.194	0.004	0.001	0.003	19.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.15	1745.00	132322	0.0	19.30	18.53	1	50	Bottom	5	0.003	0.003	1.194	0.004	0.001	0.003	19.10	0.000	0.000	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.01	1745.00	132322	0.0	19.30	18.53	50	50	Left	5	0.004	0.001	1.194	0.006	0.017	0.040	19.10	0.000	0.038	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.01	1745.00	132322	0.0	19.30	18.53	50	50	Right	5	0.004	0.001	1.194	0.006	0.017	0.040	19.10	0.000	0.038	
Body	LTE Band 66	20	QPSK	3b	968HX	1:1	-0.03	1745.00	132322	0.0	19.30	18.53	1	50	Left	5	0.009	0.009	1.194	0.011	0.006	0.007	19.10	0.010	0.006	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body									
Uncontrolled Exposure/General Population																	1.6 W/kg (10g/kg)									
																	averaged over 1 gram									

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 Antenna 1b

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	1b	4493C	1:1	0.01	1860.00	26140	0.0	18.70	17.65	1	50	Back	5	0.731	0.338	1.274	0.931	0.431	0.582	18.60	0.903	0.564	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.01	1862.50	26365	0.0	18.70	17.45	1	50	Back	5	0.769	0.355	1.354	1.026	0.474	0.641	18.60	0.995	0.622	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.00	1905.00	26590	0.0	18.70	17.52	1	50	Back	5	0.785	0.363	1.312	1.030	0.476	0.644	18.60	0.999	0.624	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.04	1860.00	26140	0.0	18.70	17.72	50	0	Back	5	0.728	0.517	0.253	0.912	0.422	0.570	18.60	0.884	0.553	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.01	1862.50	26365	0.0	18.70	17.68	50	0	Back	5	0.765	0.353	1.265	0.968	0.447	0.605	18.60	0.939	0.587	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.05	1905.00	26590	0.0	18.70	17.53	50	25	Back	5	0.788	0.364	1.309	1.031	0.476	0.644	18.60	1.000	0.625	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.01	1860.00	26140	0.0	18.70	17.63	100	0	Back	5	0.738	0.543	1.279	0.944	0.439	0.590	18.60	0.916	0.573	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.15	1860.00	26140	0.0	18.70	17.65	1	50	Top	5	0.608	0.004	1.274	0.010	0.005	0.006	18.60	0.010	0.006	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	-0.13	1860.00	26140	0.0	18.70	17.72	50	0	Top	5	0.608	0.004	1.251	0.010	0.005	0.006	18.60	0.010	0.006	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.00	1860.00	26140	0.0	18.70	17.65	1	50	Bottom	5	0.699	0.113	1.274	0.891	0.424	0.537	18.60	0.864	0.540	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.00	1862.50	26365	0.0	18.70	17.45	1	50	Bottom	5	0.711	0.140	1.194	0.948	0.454	0.593	18.60	0.919	0.574	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.02	1905.00	26590	0.0	18.70	17.52	1	50	Bottom	5	0.785	0.380	1.312	1.030	0.499	0.644	18.60	0.999	0.624	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.00	1860.00	26140	0.0	18.70	17.72	50	0	Bottom	5	0.701	0.536	1.253	0.878	0.421	0.549	18.60	0.852	0.533	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.02	1862.50	26365	0.0	18.70	17.68	50	0	Bottom	5	0.686	0.129	1.265	0.868	0.416	0.543	18.60	0.842	0.526	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.50	1860.00	26140	0.0	18.70	17.53	50	25	Bottom	5	0.778	0.377	1.309	1.018	0.493	0.636	18.60	0.987	0.617	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.04	1860.00	26140	0.0	18.70	17.63	100	0	Bottom	5	0.685	0.329	1.279	0.876	0.421	0.548	18.60	0.850	0.531	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.03	1860.00	26140	0.0	18.70	17.65	1	50	Right	5	0.699	0.006	1.274	0.911	0.006	0.007	18.60	0.011	0.007	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	-0.20	1860.00	26140	0.0	18.70	17.95	50	0	Right	5	0.608	0.005	1.253	0.010	0.006	0.006	18.60	0.010	0.006	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	-0.03	1860.00	26140	0.0	18.70	17.65	1	50	Left	5	0.645	0.026	1.274	0.057	0.033	0.036	18.60	0.055	0.034	
Body	LTE Band 25	20	QPSK	1b	4493C	1:1	0.10	1860.00	26140	0.0	18.70	17.72	50	0	Left	5	0.646	0.026	1.253	0.058	0.033	0.036	18.60	0.058	0.035	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)							
Spatial Peak																	Body		averaged over 1 gram							
Uncontrolled Exposure/General Population																										

Table 10-28 Antenna 2

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	2	GW30	1:1	-0.04	1862.50	26365	0.0	17.30	16.69	1	50	Back	5	0.566	0.280	1.151	0.651	0.322	0.407	16.80	0.570	0.356	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.01	1862.50	26365	0.0	17.30	16.70	50	0	Back	5	0.607	0.309	1.148	0.697	0.344	0.436	16.80	0.610	0.381	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.05	1862.50	26365	0.0	17.30	16.69	1	50	Top	5	0.600	0.000	1.151	0.000	0.000	0.000	16.80	0.000	0.000	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.07	1862.50	26365	0.0	17.30	16.70	50	0	Top	5	0.600	0.000	1.148	0.000	0.000	0.000	16.80	0.000	0.000	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.00	1860.00	26140	0.0	17.30	16.50	1	50	Bottom	5	0.503	0.447	1.000	1.085	0.117	0.678	16.80	0.950	0.584	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.02	1862.50	26365	0.0	17.30	16.69	1	50	Bottom	5	0.670	0.428	1.151	1.001	0.493	0.626	16.80	0.880	0.550	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.00	1905.00	26590	0.0	17.30	16.62	1	50	Bottom	5	0.605	0.422	1.225	1.060	0.517	0.643	16.80	0.930	0.581	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.01	1860.00	26140	0.0	17.30	16.68	50	0	Bottom	5	0.600	0.445	1.151	1.038	0.513	0.649	16.80	0.910	0.569	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	-0.01	1862.50	26365	0.0	17.30	16.70	50	0	Bottom	5	0.609	0.448	1.148	1.044	0.514	0.651	16.80	0.920	0.575	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.00	1905.00	26590	0.0	17.30	16.67	1	50	Bottom	5	0.617	0.419	1.211	1.038	0.507	0.649	16.80	0.910	0.569	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.00	1860.00	26140	0.0	17.30	16.68	100	0	Bottom	5	0.607	0.477	1.151	1.138	0.550	0.711	16.80	1.000	0.625	A11
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.14	1862.50	26365	0.0	17.30	16.69	1	50	Right	5	0.645	0.023	1.151	0.052	0.026	0.031	16.80	0.050	0.031	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	-0.02	1862.50	26365	0.0	17.30	16.70	50	0	Right	5	0.608	0.026	1.148	0.057	0.026	0.032	16.80	0.050	0.031	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.07	1862.50	26365	0.0	17.30	16.69	1	50	Left	5	0.600	0.000	1.151	0.000	0.000	0.000	16.80	0.000	0.000	
Body	LTE Band 25	20	QPSK	2	GW30	1:1	0.08	1862.50	26365	0.0	17.30	16.70	50	0	Left	5	0.600	0.000	1.148	0.000	0.000	0.000	16.80	0.000	0.000	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)							
Spatial Peak																	Body		averaged over 1 gram							
Uncontrolled Exposure/General Population																										

Table 10-29 Antenna 3b

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	3b	N127F	1:1	0.01	1860.00	26140	0.0	19.10	18.11	1	50	Back	5	0.753	0.352	1.256	0.946	0.442	0.591	18.80	0.883	0.539	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.02	1862.50	26365	0.0	19.10	18.08	1	50	Back	5	0.755	0.350	1.262	0.948	0.442	0.591	18.80	0.884	0.540	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.02	1905.00	26590	0.0	19.10	17.95	1	50	Back	5	0.840	0.391	1.305	1.095	0.509	0.654	18.80	0.989	0.624	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.00	1860.00	26140	0.0	19.10	18.27	50	0	Back	5	0.754	0.358	1.211	0.925	0.434	0.578	18.80	0.844	0.528	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.00	1862.50	26365	0.0	19.10	18.22	50	25	Back	5	0.760	0.377	1.256	0.969	0.475	0.620	18.80	0.905	0.564	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.01	1905.00	26590	0.0	19.10	17.97	50	25	Back	5	0.830	0.386	1.297	1.077	0.501	0.673	18.80	0.983	0.614	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.02	1862.50	26365	0.0	19.10	18.07	100	0	Back	5	0.756	0.360	1.248	0.931	0.436	0.580	18.80	0.846	0.530	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.01	1860.00	26140	0.0	19.10	18.11	1	50	Top	5	0.750	0.378	1.256	0.992	0.475	0.620	18.80	0.905	0.564	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.00	1862.50	26365	0.0	19.10	18.09	1	50	Top	5	0.751	0.386	1.262	1.025	0.487	0.641	18.80	0.935	0.584	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.00	1860.00	26140	0.0	19.10	18.27	50	0	Top	5	0.753	0.383	1.211	0.917	0.433	0.580	18.80	0.844	0.528	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.03	1860.00	26140	0.0	19.10	18.77	50	0	Top	5	0.836	0.400	1.211	1.012	0.484	0.633	18.80	0.923	0.577	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.01	1862.50	26365	0.0	19.10	18.22	50	25	Top	5	0.855	0.393	1.225	1.047	0.481	0.634	18.80	0.935	0.597	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.02	1860.00	26140	0.0	19.10	18.27	100	0	Top	5	0.757	0.395	1.211	0.929	0.439	0.583	18.80	0.846	0.530	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.03	1862.50	26365	0.0	19.10	18.07	100	0	Top	5	0.800	0.382	1.268	1.014	0.484	0.634	18.80	0.925	0.578	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.04	1860.00	26140	0.0	19.10	18.11	1	50	Bottom	5	0.608	0.003	1.256	0.008	0.004	0.005	18.80	0.007	0.004	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.06	1860.00	26140	0.0	19.10	18.11	1	50	Bottom	5	0.607	0.003	1.256	0.007	0.004	0.005	18.80	0.006	0.004	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	-0.06	1860.00	26140	0.0	19.10	18.11	1	50	Right	5	0.047	0.026	1.256	0.059	0.033	0.037	18.80	0.054	0.034	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.03	1860.00	26140	0.0	19.10	18.27	50	0	Right	5	0.048	0.027	1.211	0.038	0.033	0.036	18.80	0.035	0.033	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.03	1860.00	26140	0.0	19.10	18.27	100	0	Right	5	0.048	0.026	1.256	0.036	0.032	0.035	18.80	0.032	0.030	
Body	LTE Band 25	20	QPSK	3b	N127F	1:1	0.03	1860.00	26140	0.0	19.10	18.27	50	0	Left	5	0.048	0.024	1.211	0.030	0.005	0.006	18.80	0.009	0.009	
ANSI/IEEE C63.1982 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (10g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1b

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 Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.02	2310.00	27710	0.0	20.50	20.29	1	25	Back	5	1.030	0.458	1.050	1.082	0.481	0.676	20.20	0.990	0.619	A12
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.03	2310.00	27710	0.0	20.50	20.41	25	0	Back	5	1.020	0.450	1.031	1.031	0.459	0.644	20.20	0.940	0.588	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.04	2310.00	27710	0.0	20.50	20.20	50	0	Back	5	1.000	0.450	1.072	1.093	0.491	0.683	20.20	1.000	0.625	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	0.06	2310.00	27710	0.0	20.50	20.29	1	25	Top	5	0.012	0.006	1.050	0.013	0.006	0.008	20.20	0.010	0.006	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	0.01	2310.00	27710	0.0	20.50	20.41	25	0	Top	5	0.015	0.007	1.031	0.015	0.007	0.009	20.20	0.010	0.006	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.01	2310.00	27710	0.0	20.50	20.29	1	25	Bottom	5	0.995	0.452	1.050	1.045	0.475	0.651	20.20	0.960	0.600	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	0.00	2310.00	27710	0.0	20.50	20.41	25	0	Bottom	5	1.000	0.457	1.021	1.021	0.467	0.638	20.20	0.930	0.581	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	0.01	2310.00	27710	0.0	20.50	20.20	50	0	Bottom	5	1.020	0.470	1.072	1.093	0.504	0.683	20.20	1.000	0.625	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.19	2310.00	27710	0.0	20.50	20.29	1	25	Right	5	0.068	0.030	1.050	0.061	0.012	0.038	20.20	0.060	0.038	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.02	2310.00	27710	0.0	20.50	20.41	25	0	Right	5	0.019	0.011	1.021	0.060	0.012	0.038	20.20	0.050	0.031	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	-0.09	2310.00	27710	0.0	20.50	20.29	1	25	Left	5	0.053	0.030	1.050	0.058	0.012	0.038	20.20	0.050	0.031	
Body	LTE Band 30	10	QPSK	1b	13146	1:1	0.16	2310.00	27710	0.0	20.50	20.41	25	0	Left	5	0.043	0.023	1.021	0.044	0.013	0.038	20.20	0.040	0.025	
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 10-32 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.04	2310.00	27710	0.0	19.70	18.82	1	25	Back	5	0.525	0.233	1.225	0.643	0.285	0.402	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	-0.04	2310.00	27710	0.0	19.70	18.77	25	12	Back	5	0.552	0.243	1.239	0.684	0.301	0.428	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.07	2310.00	27710	0.0	19.70	18.82	1	25	Top	5	0.025	0.013	1.225	0.031	0.016	0.019	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.07	2310.00	27710	0.0	19.70	18.77	25	12	Top	5	0.026	0.013	1.239	0.032	0.016	0.020	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.01	2310.00	27710	0.0	19.70	18.82	1	25	Bottom	5	0.766	0.329	1.225	0.938	0.403	0.586	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.01	2310.00	27710	0.0	19.70	18.77	25	12	Bottom	5	0.777	0.334	1.239	0.963	0.414	0.602	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	-0.01	2310.00	27710	0.0	19.70	18.70	50	0	Bottom	5	0.747	0.330	1.250	0.940	0.415	0.588	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.08	2310.00	27710	0.0	19.70	18.82	1	25	Right	5	0.394	0.199	1.225	0.483	0.244	0.302	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.01	2310.00	27710	0.0	19.70	18.77	25	12	Right	5	0.394	0.199	1.239	0.488	0.247	0.305	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.09	2310.00	27710	0.0	19.70	18.82	1	25	Left	5	0.088	0.004	1.225	0.010	0.005	0.006	
Body	LTE Band 30	10	QPSK	2	HSCDH	1:1	0.06	2310.00	27710	0.0	19.70	18.77	25	12	Left	5	0.009	0.005	1.239	0.011	0.006	0.007	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 10-33 Antenna 3b

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 Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.05	2310.00	27710	0.0	18.20	17.31	1	25	Back	5	0.963	0.434	1.222	1.177	0.506	0.736	17.50	0.990	0.619	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.10	2310.00	27710	0.0	18.20	17.49	25	0	Back	5	0.958	0.432	1.178	1.179	0.485	0.736	17.50	0.990	0.594	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.03	2310.00	27710	0.0	18.20	17.32	10	0	Back	5	0.975	0.439	1.225	1.194	0.513	0.746	17.50	1.000	0.625	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	-0.08	2310.00	27710	0.0	18.20	17.31	1	25	Top	5	0.508	0.237	1.222	0.618	0.314	0.509	17.50	0.520	0.323	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.03	2310.00	27710	0.0	18.20	17.49	25	0	Top	5	0.538	0.263	1.178	0.634	0.310	0.530	17.50	0.530	0.331	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.07	2310.00	27710	0.0	18.20	17.33	1	25	Bottom	5	0.002	0.001	1.222	0.002	0.001	0.001	17.50	0.000	0.000	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.04	2310.00	27710	0.0	18.20	17.49	25	0	Bottom	5	0.001	0.001	1.178	0.004	0.001	0.003	17.50	0.000	0.000	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.10	2310.00	27710	0.0	18.20	17.31	1	25	Right	5	0.037	0.021	1.222	0.045	0.026	0.028	17.50	0.040	0.025	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.03	2310.00	27710	0.0	18.20	17.49	25	0	Right	5	0.033	0.018	1.178	0.039	0.021	0.024	17.50	0.030	0.019	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	-0.18	2310.00	27710	0.0	18.20	17.23	1	25	Left	5	0.013	0.007	1.222	0.016	0.008	0.010	17.50	0.010	0.006	
Body	LTE Band 30	10	QPSK	3b	FF72V	1:1	0.09	2310.00	27710	0.0	18.20	17.49	25	0	Left	5	0.014	0.007	1.178	0.016	0.008	0.010	17.50	0.010	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-34 Antenna 4

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 Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 30	10	QPSK	4	13146	1:1	-0.02	2310.00	27710	0.0	20.20	18.91	1	49	Back	5	0.946	0.355	1.346	1.139	0.478	0.712	19.70	1.000	0.625	
Body	LTE Band 30	10	QPSK	4	13146	1:1	-0.01	2310.00	27710	0.0	20.20	18.99	25	0	Back	5	0.852	0.352	1.321	1.099	0.465	0.687	19.70	0.960	0.600	
Body	LTE Band 30	10	QPSK	4	13146	1:1	-0.01	2310.00	27710	0.0	20.20	18.87	50	0	Back	5	0.813	0.346	1.358	1.104	0.470	0.690	19.70	0.970	0.606	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.00	2310.00	27710	0.0	20.20	18.91	1	49	Top	5	0.782	0.323	1.346	1.053	0.435	0.658	19.70	0.920	0.575	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.02	2310.00	27710	0.0	20.20	18.99	25	0	Top	5	0.809	0.336	1.321	1.069	0.444	0.668	19.70	0.940	0.588	
Body	LTE Band 30	10	QPSK	4	13146	1:1	-0.01	2310.00	27710	0.0	20.20	18.87	50	0	Top	5	0.812	0.337	1.358	1.103	0.458	0.689	19.70	0.970	0.606	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.09	2310.00	27710	0.0	20.20	18.91	1	49	Bottom	5	0.808	0.014	1.346	0.018	0.019	0.024	19.70	0.010	0.019	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.06	2310.00	27710	0.0	20.20	18.99	25	0	Bottom	5	0.803	0.018	1.321	0.041	0.011	0.026	19.70	0.040	0.026	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.01	2310.00	27710	0.0	20.20	18.91	1	49	Right	5	0.807	0.001	1.346	0.004	0.006	0.006	19.70	0.000	0.006	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.04	2310.00	27710	0.0	20.20	18.99	25	0	Right	5	0.806	0.003	1.321	0.008	0.004	0.005	19.70	0.010	0.004	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.04	2310.00	27710	0.0	20.20	18.91	1	49	Left	5	0.649	0.822	1.346	0.824	0.433	0.546	19.70	0.770	0.481	
Body	LTE Band 30	10	QPSK	4	13146	1:1	-0.01	2310.00	27710	0.0	20.20	18.99	25	0	Left	5	0.641	0.810	1.321	0.867	0.417	0.537	19.70	0.740	0.463	
Body	LTE Band 30	10	QPSK	4	13146	1:1	0.01	2310.00	27710	0.0	20.20	18.87	50	0	Left	5	0.657	0.324	1.358	0.802	0.440	0.558	19.70	0.780	0.488	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1b

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	GFSK	1b	H473H	1:1	0.00	2510.00	20850	0.0	20.30	19.57	1	50	Back	5	0.899	0.369	1.383	1.064	0.437	0.665	19.60	0.890	0.556	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.03	2535.00	21100	0.0	20.30	19.49	1	59	Back	5	0.829	0.329	1.205	0.999	0.408	0.624	19.60	0.840	0.525	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.02	2560.00	21350	0.0	20.30	19.40	1	50	Back	5	0.839	0.349	1.220	1.032	0.421	0.645	19.60	0.870	0.544	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.02	2510.00	20850	0.0	20.30	19.63	50	25	Back	5	0.885	0.365	1.367	1.033	0.426	0.646	19.60	0.870	0.544	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.03	2535.00	21100	0.0	20.30	19.57	50	25	Back	5	0.833	0.342	1.183	0.985	0.405	0.636	19.60	0.830	0.519	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.01	2560.00	21350	0.0	20.30	19.33	50	25	Back	5	0.886	0.343	1.154	0.998	0.407	0.624	19.60	0.840	0.525	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.00	2510.00	20850	0.0	20.30	19.54	100	0	Back	5	0.899	0.371	1.191	1.071	0.442	0.669	19.60	0.900	0.563	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.01	2510.00	20850	0.0	20.30	19.37	1	50	Top	5	0.901	0.406	1.181	0.901	0.400	0.601	19.60	0.900	0.600	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.07	2510.00	20850	0.0	20.30	19.63	50	25	Top	5	0.902	0.400	1.167	0.902	0.400	0.601	19.60	0.900	0.600	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.01	2510.00	20850	0.0	20.30	19.37	1	59	Bottom	5	0.830	0.327	1.183	0.970	0.387	0.606	19.60	0.820	0.511	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.00	2515.00	21100	0.0	20.30	19.49	1	59	Bottom	5	0.864	0.334	1.205	1.041	0.402	0.631	19.60	0.870	0.544	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.02	2560.00	21350	0.0	20.30	19.40	1	50	Bottom	5	0.865	0.364	1.230	1.072	0.472	0.742	19.60	1.000	0.625	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.00	2560.00	21350	0.0	20.30	19.30	1	0	Bottom	5	0.945	0.373	1.229	1.150	0.470	0.744	19.60	1.000	0.625	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.02	2510.00	20850	0.0	20.30	19.64	50	25	Bottom	5	0.886	0.331	1.187	0.976	0.389	0.610	19.60	0.820	0.511	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.00	2535.00	21100	0.0	20.30	19.37	50	25	Bottom	5	0.827	0.327	1.183	0.978	0.387	0.611	19.60	0.820	0.511	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.00	2560.00	21350	0.0	20.30	19.33	50	25	Bottom	5	0.935	0.371	1.194	1.116	0.443	0.698	19.60	0.940	0.588	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.00	2560.00	21350	0.0	20.30	19.54	100	0	Bottom	5	0.943	0.374	1.191	1.004	0.398	0.628	19.60	0.940	0.575	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.07	2510.00	20850	0.0	20.30	19.57	1	50	Right	5	0.939	0.420	1.183	0.946	0.424	0.629	19.60	0.940	0.625	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	-0.01	2510.00	20850	0.0	20.30	19.63	50	25	Right	5	0.942	0.401	1.167	0.949	0.405	0.621	19.60	0.940	0.625	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.00	2510.00	20850	0.0	20.30	19.57	1	59	Left	5	0.944	0.420	1.183	0.952	0.421	0.623	19.60	0.940	0.625	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.02	2510.00	20850	0.0	20.30	19.63	50	25	Left	5	0.946	0.420	1.167	0.954	0.420	0.624	19.60	0.950	0.631	
Body	LTE Band 7	20	GFSK	1b	H473H	1:1	0.08	2560.00	21350	0.0	20.30	19.40	1	0	Bottom	5	0.966	0.377	1.23	1.188	0.464	0.743	19.60	1.000	0.625	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-36 Antenna 2

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	CPM	2	968HX	1:1	0.00	2510.00	20850	0.0	18.70	18.06	1	50	Back	5	0.809	0.330	1.159	0.938	0.382	0.586	18.00	0.790	0.494	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.02	2535.00	21100	0.0	18.70	18.05	1	50	Back	5	0.807	0.327	1.151	0.937	0.380	0.586	18.00	0.790	0.494	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.03	2560.00	21350	0.0	18.70	18.02	1	50	Back	5	0.782	0.319	1.169	0.914	0.373	0.571	18.00	0.770	0.483	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.02	2510.00	20850	0.0	18.70	18.35	50	50	Back	5	0.802	0.327	1.084	0.969	0.354	0.543	18.00	0.740	0.463	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.02	2535.00	21100	0.0	18.70	18.30	50	0	Back	5	0.809	0.328	1.096	0.987	0.359	0.554	18.00	0.750	0.469	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.01	2560.00	21350	0.0	18.70	18.33	50	50	Back	5	0.812	0.331	1.099	0.984	0.360	0.553	18.00	0.750	0.469	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.01	2510.00	20850	0.0	18.70	18.05	100	0	Back	5	0.806	0.332	1.161	0.936	0.385	0.585	18.00	0.790	0.494	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.18	2510.00	20850	0.0	18.70	18.06	1	50	Top	5	0.018	0.010	0.199	0.021	0.012	0.013	18.00	0.020	0.013	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.01	2510.00	20850	0.0	18.70	18.35	50	50	Top	5	0.017	0.010	0.194	0.018	0.011	0.011	18.00	0.020	0.013	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.00	2510.00	20850	0.0	18.70	18.06	1	50	Bottom	5	1.000	0.404	1.129	1.182	0.468	0.729	18.00	1.000	0.625	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.01	2510.00	20850	0.0	18.70	18.05	1	59	Bottom	5	1.010	0.402	1.161	1.173	0.467	0.723	18.00	0.990	0.619	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.02	2535.00	21100	0.0	18.70	18.05	1	50	Bottom	5	0.930	0.375	1.161	1.080	0.435	0.675	18.00	0.910	0.569	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.00	2560.00	21350	0.0	18.70	18.02	1	50	Bottom	5	0.955	0.376	1.169	1.093	0.440	0.683	18.00	0.920	0.575	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.00	2510.00	20850	0.0	18.70	18.35	50	50	Bottom	5	0.937	0.375	1.084	1.016	0.407	0.635	18.00	0.860	0.538	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.00	2535.00	21100	0.0	18.70	18.30	50	0	Bottom	5	0.931	0.375	1.096	1.020	0.411	0.638	18.00	0.860	0.538	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.00	2560.00	21350	0.0	18.70	18.33	50	50	Bottom	5	0.952	0.382	1.089	1.037	0.416	0.648	18.00	0.880	0.550	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.01	2510.00	20850	0.0	18.70	18.05	100	0	Bottom	5	0.960	0.394	1.161	1.115	0.466	0.697	18.00	0.940	0.588	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.01	2510.00	20850	0.0	18.70	18.06	1	50	Right	5	0.952	0.370	1.129	0.940	0.313	0.480	18.00	0.840	0.538	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.01	2510.00	20850	0.0	18.70	18.35	50	50	Right	5	0.973	0.380	1.084	0.921	0.304	0.388	18.00	0.930	0.581	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.04	2510.00	20850	0.0	18.70	18.06	1	50	Left	5	0.011	0.006	0.199	0.013	0.007	0.008	18.00	0.010	0.006	
Body	LTE Band 7	20	CPM	2	968HX	1:1	0.05	2510.00	20850	0.0	18.70	18.35	50	50	Left	5	0.009	0.006	0.184	0.010	0.005	0.006	18.00	0.010	0.006	
Body	LTE Band 7	20	CPM	2	968HX	1:1	-0.01	2510.00	20850	0.0	18.70	17.75	1	0	Bottom	5	0.940	0.374	1.245	1.170	0.466	0.731	18.00	0.990	0.619	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-37 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.00	2510.00	20850	0.0	19.30	18.76	1	50	Back	5	0.962	0.378	1.132	1.089	0.428	0.681	18.60	0.910	0.569	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.01	2535.00	21100	0.0	19.30	18.77	1	50	Back	5	0.985	0.358	1.130	1.000	0.405	0.625	18.60	0.910	0.525	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.01	2560.00	21350	0.0	19.30	18.76	1	50	Back	5	0.961	0.344	1.148	1.097	0.394	0.611	18.60	0.910	0.511	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.00	2510.00	20850	0.0	19.30	18.77	50	50	Back	5	0.978	0.384	1.130	1.105	0.434	0.681	18.60	0.910	0.581	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.02	2535.00	21100	0.0	19.30	18.78	50	50	Back	5	0.967	0.351	1.127	0.977	0.396	0.611	18.60	0.910	0.511	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.01	2560.00	21350	0.0	19.30	18.76	50	25	Back	5	0.964	0.349	1.138	0.983	0.396	0.611	18.60	0.910	0.511	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.02	2535.00	21100	0.0	19.30	18.75	100	0	Back	5	1.020	0.359	1.135	1.158	0.433	0.724	18.60	0.970	0.606	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.01	2510.00	20850	0.0	19.30	18.76	1	50	Top	5	1.020	0.427	1.132	1.189	0.483	0.743	18.60	1.000	0.625	A13
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.00	2560.00	21350	0.0	19.30	18.76	1	50	Top	5	1.040	0.428	1.130	1.194	0.484	0.746	18.60	1.000	0.625	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.02	2560.00	21350	0.0	19.30	18.70	1	50	Top	5	1.040	0.422	1.148	1.194	0.484	0.746	18.60	1.000	0.625	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.01	2560.00	21350	0.0	19.30	18.78	1	0	Top	5	1.010	0.406	1.100	1.182	0.479	0.745	18.60	1.000	0.625	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.01	2510.00	20850	0.0	19.30	18.77	50	50	Top	5	1.030	0.421	1.130	1.164	0.476	0.728	18.60	0.970	0.606	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.01	2535.00	21100	0.0	19.30	18.78	50	50	Top	5	1.040	0.421	1.127	1.172	0.474	0.733	18.60	0.980	0.611	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.01	2560.00	21350	0.0	19.30	18.74	50	25	Top	5	1.040	0.421	1.138	1.184	0.479	0.740	18.60	0.980	0.611	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.02	2535.00	21100	0.0	19.30	18.76	100	0	Top	5	1.060	0.426	1.135	1.192	0.482	0.745	18.60	1.000	0.625	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.05	2535.00	21100	0.0	19.30	18.77	1	50	Bottom	5	0.927	0.390	1.130	0.902	0.400	0.601	18.60	0.900	0.500	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.05	2535.00	21100	0.0	19.30	18.78	50	50	Bottom	5	0.904	0.392	1.127	0.905	0.402	0.601	18.60	0.900	0.500	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.09	2535.00	21100	0.0	19.30	18.77	1	50	Right	5	0.945	0.403	1.130	0.951	0.408	0.632	18.60	0.940	0.625	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.09	2535.00	21100	0.0	19.30	18.78	50	50	Right	5	0.946	0.406	1.127	0.952	0.409	0.633	18.60	0.940	0.625	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.01	2535.00	21100	0.0	19.30	18.77	1	50	Left	5	0.913	0.407	1.130	0.926	0.414	0.635	18.60	0.920	0.611	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	0.09	2535.00	21100	0.0	19.30	18.78	50	50	Left	5	0.924	0.413	1.127	0.927	0.415	0.637	18.60	0.920	0.611	
Body	LTE Band 7	20	QPSK	3b	13146	1:1	-0.01	2560.00	21350	0.0	19.30	18.46	1	0	Top	5	0.983	0.394	1.213	1.192	0.478	0.745	18.60	1.000	0.625	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-38 Antenna 4

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]	Power Scaling Factor	Reported 1g 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	4	34C7C	1:1	0.01	2510.00	20850	0.0	19.80	19.11	1	50	Back	5	0.830	1.172	0.973	0.608	19.40	0.873	0.546		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.02	2535.00	21100	0.0	19.80	19.80	1	50	Back	5	0.845	1.259	1.064	0.660	19.40	0.955	0.597		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.01	2560.00	21350	0.0	19.80	19.83	1	50	Back	5	0.867	1.250	1.084	0.678	19.40	0.973	0.608		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.07	2510.00	20850	0.0	19.80	19.07	50	25	Back	5	0.818	1.183	0.968	0.605	19.40	0.869	0.543		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.01	2535.00	21100	0.0	19.80	19.06	50	25	Back	5	0.849	1.186	1.007	0.629	19.40	0.904	0.565		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.02	2560.00	21350	0.0	19.80	19.86	50	25	Back	5	0.876	1.242	1.088	0.680	19.40	0.977	0.611		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.00	2560.00	21350	0.0	19.80	19.85	50	0	Back	5	0.895	1.245	1.114	0.696	19.40	1.000	0.625		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.02	2535.00	21100	0.0	19.80	19.09	100	0	Back	5	0.862	1.194	1.029	0.643	19.40	0.924	0.578		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.00	2510.00	20850	0.0	19.80	19.11	1	50	Top	5	0.485	1.172	0.568	0.355	19.40	0.510	0.319		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.00	2510.00	20850	0.0	19.80	19.07	50	25	Top	5	0.497	1.183	0.588	0.368	19.40	0.528	0.330		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	-0.16	2510.00	20850	0.0	19.80	19.11	1	50	Bottom	5	0.927	1.172	0.926	0.616	19.40	0.923	0.614		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.00	2510.00	20850	0.0	19.80	19.07	50	25	Bottom	5	0.901	1.183	0.925	0.616	19.40	0.923	0.614		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.04	2510.00	20850	0.0	19.80	19.11	1	50	Right	5	0.905	1.172	0.906	0.604	19.40	0.905	0.603		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.05	2510.00	20850	0.0	19.80	19.07	50	25	Right	5	0.904	1.183	0.905	0.603	19.40	0.904	0.603		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.00	2510.00	20850	0.0	19.80	19.11	1	50	Left	5	0.925	1.172	0.915	0.584	19.40	0.952	0.545		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	0.01	2510.00	20850	0.0	19.80	19.07	50	25	Left	5	0.928	1.183	0.925	0.591	19.40	0.961	0.551		
Body	LTE Band 7	20	QPSK	4	34C7C	1:1	-0.02	2560.00	21350	0.0	19.80	18.91	50	0	Back	5	0.902	1.227	1.107	0.692	19.40	0.994	0.621		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

FCC ID: BCGA3462	RF EXPOSURE REPORT	Approved by: Technical Manager
Document S/N: 1C2509100082-01.BCG-R2	DUT Type: Tablet Device	Page 202 of 252

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10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.04	2506.00	39750	0.0	21.30	20.75	1	50	Back	5	0.618	0.252	1.135	0.701	0.286	0.438	20.60	0.591	0.369	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.00	2549.50	40185	0.0	21.30	20.45	1	50	Back	5	0.523	0.216	1.216	0.636	0.263	0.398	20.60	0.536	0.335	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.01	2593.00	40620	0.0	21.30	20.51	1	50	Back	5	0.529	0.219	1.159	0.646	0.261	0.404	20.60	0.545	0.341	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.02	2636.50	41055	0.0	21.30	20.50	1	50	Back	5	0.579	0.234	1.202	0.696	0.281	0.435	20.60	0.587	0.367	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.00	2680.00	41490	0.0	21.30	20.16	1	50	Back	5	0.600	0.240	1.186	0.712	0.285	0.445	20.60	0.600	0.375	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.09	2506.00	39750	0.0	21.30	20.76	50	25	Back	5	0.687	0.278	1.132	0.772	0.315	0.483	20.60	0.651	0.407	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.03	2549.50	40185	0.0	21.30	20.57	50	25	Back	5	0.545	0.224	1.183	0.645	0.265	0.403	20.60	0.544	0.340	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.01	2593.00	40620	0.0	21.30	20.61	50	25	Back	5	0.530	0.218	1.172	0.621	0.253	0.388	20.60	0.524	0.328	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.01	2616.50	41055	0.0	21.30	20.99	50	25	Back	5	0.564	0.228	1.178	0.664	0.269	0.415	20.60	0.560	0.350	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.03	2680.00	41490	0.0	21.30	20.34	50	50	Back	5	0.598	0.240	1.247	0.746	0.299	0.466	20.60	0.629	0.393	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.04	2506.00	39750	0.0	21.30	20.73	100	0	Back	5	0.653	0.268	1.140	0.744	0.306	0.465	20.60	0.627	0.392	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.08	2506.00	39750	0.0	21.30	20.79	1	50	Top	5	0.600	0.260	1.135	0.690	0.260	0.400	20.60	0.600	0.375	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.06	2506.00	39750	0.0	21.30	20.76	50	50	Top	5	0.600	0.260	1.132	0.690	0.260	0.400	20.60	0.600	0.375	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.01	2506.00	39750	0.0	21.30	20.75	1	50	Bottom	5	0.718	0.287	1.135	0.813	0.326	0.508	20.60	0.685	0.428	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.01	2549.50	40185	0.0	21.30	20.45	1	50	Bottom	5	0.642	0.260	1.216	0.781	0.316	0.488	20.60	0.658	0.411	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.04	2593.00	40620	0.0	21.30	20.51	1	50	Bottom	5	0.729	0.293	1.199	0.874	0.351	0.546	20.60	0.737	0.461	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.02	2636.50	41055	0.0	21.30	20.50	1	50	Bottom	5	0.627	0.249	1.202	0.649	0.249	0.365	20.60	0.564	0.353	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.00	2680.00	41490	0.0	21.30	20.56	1	50	Bottom	5	1.000	0.397	1.186	1.186	0.471	0.741	20.60	1.000	0.625	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.01	2680.00	41490	0.0	21.30	20.20	1	0	Bottom	5	0.899	0.353	1.288	1.138	0.455	0.724	20.60	0.976	0.610	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.2.31	0.02	2680.00	41490	0.0	22.90	21.78	1	0	Bottom	5	0.548	0.212	1.178	0.617	0.236	0.368	22.20	0.542	0.349	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.2.31	-0.01	2680.00	41490	0.0	22.90	21.91	1	0	Bottom	5	0.511	0.204	1.205	0.577	0.217	0.323	22.20	0.576	0.310	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.01	2506.00	39750	0.0	21.30	20.76	50	50	Bottom	5	0.712	0.293	1.132	0.829	0.332	0.518	20.60	0.699	0.437	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.00	2549.50	40185	0.0	21.30	20.45	1	50	Bottom	5	0.647	0.261	1.183	0.771	0.311	0.486	20.60	0.650	0.408	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.01	2593.00	40620	0.0	21.30	20.81	50	50	Bottom	5	0.742	0.299	1.172	0.870	0.350	0.544	20.60	0.734	0.459	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.00	2636.50	41055	0.0	21.30	20.59	50	50	Bottom	5	0.861	0.346	1.178	1.014	0.406	0.634	20.60	0.855	0.534	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.02	2680.00	41490	0.0	21.30	20.58	50	50	Bottom	5	0.818	0.319	1.214	0.817	0.319	0.471	20.60	0.818	0.517	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.01	2506.00	39750	0.0	21.30	20.71	100	0	Bottom	5	0.729	0.292	1.140	0.831	0.319	0.519	20.60	0.703	0.438	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	0.02	2506.00	39750	0.0	21.30	20.75	1	50	Right	5	0.658	0.268	1.135	0.618	0.269	0.401	20.60	0.615	0.390	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.02	2506.00	39750	0.0	21.30	20.76	50	50	Right	5	0.617	0.269	1.132	0.619	0.269	0.401	20.60	0.616	0.390	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.10	2506.00	39750	0.0	21.30	20.75	1	50	Left	5	0.609	0.261	1.135	0.644	0.264	0.408	20.60	0.637	0.403	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.03	2506.00	39750	0.0	21.30	20.76	1	50	Left	5	0.642	0.273	1.135	0.688	0.273	0.415	20.60	0.640	0.405	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.1.58	-0.02	2680.00	41490	0.0	21.30	18.69	1	0	Bottom	5	0.774	0.304	1.449	1.122	0.440	0.701	20.60	0.946	0.591	
Body	LTE Band 41	20	QPSK	1b	YUICX	1.2.31	0.02	2680.00	41490	0.0	22.90	21.72	1	0	Bottom	5	0.849	0.333	1.312	1.114	0.437	0.696	22.20	0.939	0.587	
ANSI/IEEE C610.10-2010 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
Body																										
1.6 W/kg (mW/g) averaged over 1 gram																										

Note: Green entry represents HPUE measurement.

Table 10-40 Antenna 2

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	2	H473H	1.1.58	0.06	2506.00	39750	0.0	21.70	21.14	1	50	Back	5	0.703	0.287	1.138	0.854	0.327	0.521	21.00	0.704	0.440	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2549.50	40185	0.0	21.70	21.19	1	50	Back	5	0.647	0.254	1.125	0.788	0.286	0.455	21.00	0.635	0.394	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2593.00	40620	0.0	21.70	21.16	1	50	Back	5	0.776	0.291	1.107	0.859	0.322	0.537	21.00	0.725	0.453	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2636.50	41055	0.0	21.70	21.22	1	50	Back	5	0.825	0.304	1.127	0.956	0.329	0.598	21.00	0.807	0.504	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.02	2680.00	41490	0.0	21.70	21.25	1	50	Back	5	0.844	0.317	1.105	0.936	0.318	0.585	21.00	0.790	0.494	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2506.00	39750	0.0	21.70	21.22	50	25	Back	5	0.747	0.292	1.117	0.834	0.326	0.521	21.00	0.704	0.440	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.04	2549.50	40185	0.0	21.70	21.16	50	25	Back	5	0.611	0.257	1.107	0.725	0.284	0.453	21.00	0.612	0.383	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2636.50	41055	0.0	21.70	21.27	50	25	Back	5	0.816	0.303	1.099	0.935	0.419	0.584	21.00	0.790	0.494	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.25	100	0	Back	5	0.785	0.308	1.099	0.871	0.307	0.544	21.00	0.736	0.460	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.04	2593.00	40620	0.0	21.70	21.16	1	50	Top	5	0.617	0.267	1.107	0.619	0.268	0.401	21.00	0.616	0.390	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	-0.08	2593.00	40620	0.0	21.70	21.12	50	25	Top	5	0.617	0.267	1.091	0.619	0.268	0.401	21.00	0.616	0.390	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2506.00	39750	0.0	21.70	21.14	1	50	Bottom	5	0.696	0.372	1.138	1.065	0.423	0.666	21.00	0.899	0.562	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	-0.09	2549.50	40185	0.0	21.70	21.19	1	50	Bottom	5	0.566	0.376	1.125	1.069	0.423	0.666	21.00	0.569	0.366	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.18	50	25	Bottom	5	0.742	0.376	1.105	0.842	0.392	0.646	21.00	0.743	0.465	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.26	1	50	Bottom	5	1.070	0.426	1.127	1.184	0.461	0.740	21.00	1.000	0.625	A14
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.26	1	50	Bottom	5	1.070	0.426	1.122	1.184	0.456	0.736	21.00	0.995	0.620	
Body	LTE Band 41	20	QPSK	2	H473H	1.2.31	0.00	2593.00	40620	0.0	23.30	22.76	1	99	Bottom	5	1.040	0.405	1.125	1.150	0.457	0.731	22.60	0.988	0.619	
Body	LTE Band 41	20	QPSK	2	H473H	1.2.31	0.01	2593.00	40620	0.0	23.30	22.76	1	99	Bottom	5	1.020	0.396	1.132	1.135	0.448	0.722	22.60	0.975	0.609	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2636.50	41055	0.0	21.70	21.22	1	50	Bottom	5	0.678	0.377	1.117	0.685	0.376	0.616	21.00	0.678	0.416	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2680.00	41490	0.0	21.70	21.25	1	50	Bottom	5	0.670	0.377	1.105	0.678	0.374	0.605	21.00	0.678	0.416	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2506.00	39750	0.0	21.70	21.22	50	25	Bottom	5	0.944	0.435	1.117	1.004	0.419	0.659	21.00	0.890	0.556	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2549.50	40185	0.0	21.70	21.19	50	25	Bottom	5	0.655	0.377	1.097	0.655	0.317	0.567	21.00	0.651	0.397	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	-0.02	2593.00	40620	0.0	21.70	21.32	50	25	Bottom	5	1.010	0.398	1.091	1.002	0.434	0.649	21.00	0.931	0.582	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2636.50	41055	0.0	21.70	21.29	50	25	Bottom	5	0.955	0.374	1.099	1.050	0.411	0.656	21.00	0.887	0.554	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.27	50	25	Bottom	5	0.940	0.374	1.099	1.042	0.411	0.656	21.00	0.791	0.490	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.03	2593.00	39750	0.0	21.70	21.25	100	0	Bottom	5	1.020	0.403	1.099	1.131	0.447	0.707	21.00	0.905	0.597	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2506.00	39750	0.0	21.70	21.14	1	50	Right	5	0.605	0.263	1.138	0.688	0.322	0.430	21.00	0.611	0.363	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2549.50	40185	0.0	21.70	21.19	1	50	Right	5	0.566	0.263	1.125	0.647	0.322	0.430	21.00	0.591	0.357	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.02	2593.00	40620	0.0	21.70	21.26	1	50	Right	5	0.818	0.371	1.107	0.917	0.413	0.573	21.00	0.774	0.484	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2636.50	41055	0.0	21.70	21.22	1	50	Right	5	0.684	0.367	1.117	0.687	0.413	0.617	21.00	0.684	0.424	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2680.00	41490	0.0	21.70	21.27	1	50	Right	5	0.678	0.367	1.105	0.678	0.413	0.605	21.00	0.678	0.424	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2506.00	39750	0.0	21.70	21.22	50	25	Right	5	0.902	0.376	1.117	0.872	0.308	0.420	21.00	0.658	0.395	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2549.50	40185	0.0	21.70	21.26	50	25	Right	5	0.698	0.313	1.107	0.773	0.353	0.483	21.00	0.653	0.408	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.29	50	25	Right	5	0.989	0.313	1.097	0.988	0.401	0.598	21.00	0.988	0.601	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.01	2636.50	41055	0.0	21.70	21.29	50	25	Right	5	0.871	0.390	1.099	0.957	0.429	0.598	21.00	0.808	0.505	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	-0.03	2680.00	41490	0.0	21.70	21.27	50	25	Right	5	0.859	0.382	1.104	0.948	0.422	0.593	21.00	0.801	0.503	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.00	2593.00	40620	0.0	21.70	21.27	100	0	Left	5	0.923	0.392	1.102	0.923	0.414	0.573	21.00	0.781	0.481	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.09	2593.00	40620	0.0	21.70	21.32	50	25	Left	5	0.904	0.303	1.097	0.904	0.001	0.003	21.00	0.003	0.002	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	0.06	2593.00	40620	0.0	21.70	21.16	50	25	Left	5	0.003	0.000	1.091	0.003	0.001	0.002	21.00	0.003	0.002	
Body	LTE Band 41	20	QPSK	2	H473H	1.1.58	-0.02	2612.89	40818	0.0	21.70	21.19	1	0	Bottom	5	1.090	0.393	1.125	1.159	0.442	0.724	21.00	0.979	0.612	
Body	LTE Band 41	20	QPSK	2	H473H	1.2.31	0.01	2593.00	40620	0.0	23.30	22.75	1	99	Bottom	5	1.040	0.404	1.135	1.180	0.459	0.738	22.60	0.997	0.623	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
Body 1.6 W/kg (mW/g) averaged over 1 gram																										

Table 10-41 Antenna 3b

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 Rate [SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate [1g SAR]	Plot #
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2506.00	39750	0.0	21.50	20.53	1	50	Back	5	0.765	0.813	1.250	0.956	0.391	0.598	20.80	0.801	0.501	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.07	2549.50	40185	0.0	21.50	20.63	1	50	Back	5	0.742	0.799	1.222	0.907	0.365	0.567	20.80	0.760	0.475	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.06	2593.00	40620	0.0	21.50	20.73	1	50	Back	5	0.725	0.789	1.194	0.886	0.345	0.541	20.80	0.726	0.484	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2636.50	41055	0.0	21.50	20.86	1	50	Back	5	0.696	0.761	1.271	0.854	0.312	0.521	20.80	0.699	0.437	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.01	2680.00	41490	0.0	21.50	20.55	1	50	Back	5	0.642	0.752	1.245	0.799	0.314	0.499	20.80	0.670	0.419	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2506.00	39750	0.0	21.50	20.56	50	25	Back	5	0.756	0.833	1.242	0.951	0.389	0.594	20.80	0.797	0.498	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2549.50	40185	0.0	21.50	20.67	50	25	Back	5	0.723	0.792	1.211	0.876	0.345	0.548	20.80	0.734	0.459	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.09	2593.00	40620	0.0	21.50	20.76	50	25	Back	5	0.667	0.765	1.186	0.791	0.314	0.484	20.80	0.663	0.414	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.02	2636.50	41055	0.0	21.50	20.76	50	25	Back	5	0.696	0.749	1.224	0.803	0.312	0.501	20.80	0.673	0.430	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.02	2680.00	41490	0.0	21.50	20.30	50	25	Back	5	0.645	0.753	1.318	0.850	0.333	0.531	20.80	0.713	0.446	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.11	2593.00	40620	0.0	21.50	20.71	100	0	Back	5	0.639	0.760	1.199	0.766	0.312	0.479	20.80	0.642	0.401	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.01	2506.00	39750	0.0	21.50	20.53	1	50	Top	5	0.794	0.820	1.250	0.993	0.400	0.621	20.80	0.832	0.520	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.02	2549.50	40185	0.0	21.50	20.63	1	50	Top	5	0.808	0.825	1.222	0.987	0.397	0.617	20.80	0.827	0.517	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.01	2593.00	40620	0.0	21.50	20.73	1	50	Top	5	0.859	0.842	1.194	1.026	0.408	0.641	20.80	0.860	0.538	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.01	2636.50	41055	0.0	21.50	20.46	1	50	Top	5	0.851	0.740	1.271	1.087	0.412	0.629	20.80	0.911	0.569	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.02	2680.00	41490	0.0	21.50	20.55	1	50	Top	5	0.901	0.852	1.245	1.122	0.438	0.701	20.80	0.941	0.588	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.01	2506.00	39750	0.0	21.50	20.36	50	25	Top	5	0.807	0.822	1.242	0.996	0.400	0.623	20.80	0.833	0.522	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.01	2549.50	40185	0.0	21.50	20.67	50	25	Top	5	0.821	0.831	1.211	0.994	0.401	0.621	20.80	0.833	0.521	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2593.00	40620	0.0	21.50	20.76	50	25	Top	5	0.837	0.833	1.186	0.993	0.395	0.621	20.80	0.832	0.520	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.01	2636.50	41055	0.0	21.50	20.28	50	25	Top	5	0.856	0.841	1.324	1.131	0.451	0.708	20.80	0.950	0.594	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.01	2680.00	41490	0.0	21.50	20.30	50	25	Top	5	0.905	0.854	1.318	1.193	0.467	0.746	20.80	1.000	0.625	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2680.00	41490	0.0	21.50	20.25	50	0	Top	5	0.894	0.848	1.334	1.133	0.464	0.746	20.80	1.000	0.625	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.2.31	0.01	2680.00	41490	0.0	23.10	22.32	50	25	Top	5	0.938	0.962	1.197	1.120	0.433	0.700	22.40	0.939	0.587	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.2.31	0.01	2680.00	41490	0.0	23.10	22.22	50	0	Top	5	0.939	0.962	1.222	1.150	0.445	0.719	22.40	0.964	0.603	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2593.00	40620	0.0	21.50	20.71	100	0	Top	5	0.844	0.836	1.199	1.012	0.403	0.633	20.80	0.848	0.530	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.03	2593.00	40620	0.0	21.50	20.73	1	50	Bottom	5	0.804	0.802	1.194	0.905	0.400	0.603	20.80	0.804	0.503	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.09	2593.00	40620	0.0	21.50	20.76	50	25	Bottom	5	0.802	0.802	1.186	0.904	0.400	0.603	20.80	0.802	0.503	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.02	2593.00	40620	0.0	21.50	20.73	1	50	Right	5	0.845	0.836	1.194	0.954	0.031	0.634	20.80	0.845	0.028	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.04	2593.00	40620	0.0	21.50	20.76	50	25	Right	5	0.845	0.835	1.186	0.953	0.030	0.633	20.80	0.844	0.028	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	-0.39	2593.00	40620	0.0	21.50	20.73	1	50	Left	5	0.825	0.813	1.194	0.916	0.029	0.619	20.80	0.825	0.028	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.17	2593.00	40620	0.0	21.50	20.76	50	25	Left	5	0.824	0.812	1.186	0.928	0.014	0.618	20.80	0.823	0.014	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.1.58	0.00	2680.00	41490	0.0	21.50	20.15	50	0	Top	5	0.940	0.932	1.365	1.147	0.417	0.717	20.80	0.962	0.601	
Body	LTE Band 41	20	QPSK	3b	YIICK	1.2.31	0.01	2680.00	41490	0.0	23.10	22.00	50	0	Top	5	0.874	0.842	1.288	1.126	0.440	0.704	22.40	0.944	0.590	
ANSI/IEEE C63.1-1998 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Note: Green entry represents HPUE measurement.

Table 10-42 Antenna 4

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 Rate [SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate [1g SAR]	Plot #	
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.04	2506.00	39750	0.0	21.20	20.67	1	50	Back	5	0.856	0.926	1.130	0.967	0.388	0.604	20.50	0.810	0.506		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.07	2549.50	40185	0.0	21.20	20.50	1	50	Back	5	0.725	0.777	1.175	0.852	0.320	0.533	20.50	0.710	0.444		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.03	2593.00	40620	0.0	21.20	20.60	1	50	Back	5	0.645	0.741	1.148	0.740	0.277	0.463	20.50	0.620	0.388		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.03	2636.50	41055	0.0	21.20	20.45	1	50	Back	5	0.542	0.702	1.189	0.644	0.240	0.403	20.50	0.540	0.338		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.03	2680.00	41490	0.0	21.20	20.43	1	50	Back	5	0.619	0.807	1.194	0.789	0.367	0.462	20.50	0.620	0.388		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.02	2506.00	39750	0.0	21.20	20.69	50	0	Back	5	0.821	0.813	1.125	0.924	0.382	0.578	20.50	0.770	0.481		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.09	2549.50	40185	0.0	21.20	20.57	50	0	Back	5	0.721	0.770	1.156	0.833	0.312	0.521	20.50	0.700	0.438		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.08	2593.00	40620	0.0	21.20	20.65	50	0	Back	5	0.844	0.848	1.135	0.942	0.381	0.464	20.50	0.820	0.388		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2636.50	41055	0.0	21.20	20.55	50	0	Back	5	0.547	0.704	1.161	0.635	0.237	0.397	20.50	0.530	0.331		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.01	2680.00	41490	0.0	21.20	20.43	50	0	Back	5	0.606	0.806	1.189	0.721	0.363	0.451	20.50	0.600	0.375		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.03	2506.00	39750	0.0	21.20	20.69	100	0	Back	5	0.908	0.926	1.135	0.979	0.377	0.454	20.50	0.910	0.566		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.01	2506.00	39750	0.0	21.20	20.67	1	50	Top	5	0.979	0.969	1.130	1.106	0.417	0.691	20.50	0.930	0.581		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.02	2549.50	40185	0.0	21.20	20.50	1	50	Top	5	0.742	0.770	1.175	0.872	0.317	0.545	20.50	0.730	0.456		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2593.00	40620	0.0	21.20	20.60	1	50	Top	5	0.645	0.741	1.148	0.740	0.277	0.463	20.50	0.620	0.388		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.01	2636.50	41055	0.0	21.20	20.45	1	50	Top	5	0.777	0.782	1.189	0.924	0.335	0.578	20.50	0.770	0.481		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2680.00	41490	0.0	21.20	20.43	1	50	Top	5	0.780	0.783	1.194	0.924	0.338	0.578	20.50	0.780	0.494		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.03	2506.00	39750	0.0	21.20	20.69	50	0	Top	5	0.908	0.926	1.135	0.979	0.377	0.454	20.50	0.910	0.566		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2506.00	39750	0.0	21.20	20.69	50	0	Top	5	1.020	0.986	1.127	1.150	0.435	0.719	20.50	0.980	0.600		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.03	2506.00	39750	0.0	22.80	22.29	50	0	Top	5	0.860	0.860	1.125	0.942	0.469	0.764	22.10	1.000	0.625		
Body	LTE Band 41	20	QPSK	4	60NCW	1.2.31	0.01	2506.00	39750	0.0	22.80	22.16	50	0	Top	5	1.030	0.993	1.159	1.194	0.453	0.746	22.10	1.000	0.625		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.02	2549.50	40185	0.0	21.20	20.57	50	0	Top	5	0.686	0.731	1.156	0.636	0.383	0.648	20.50	0.670	0.344		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.01	2593.00	40620	0.0	21.20	20.65	50	0	Top	5	0.681	0.729	1.155	0.633	0.382	0.647	20.50	0.670	0.344		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.01	2636.50	41055	0.0	21.20	20.55	50	0	Top	5	0.765	0.777	1.161	0.688	0.352	0.552	20.50	0.740	0.463		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2680.00	41490	0.0	21.20	20.45	50	0	Top	5	0.775	0.778	1.189	0.921	0.331	0.576	20.50	0.770	0.481		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2506.00	39750	0.0	21.20	20.65	100	0	Top	5	0.968	0.972	1.135	1.035	0.418	0.697	20.50	0.950	0.581		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.07	2506.00	39750	0.0	21.20	20.69	50	0	Bottom	5	0.811	0.697	1.135	0.812	0.356	0.500	20.50	0.690	0.410		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.09	2506.00	39750	0.0	21.20	20.69	50	0	Bottom	5	0.811	0.608	1.125	0.612	0.309	0.408	20.50	0.610	0.306		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.01	2506.00	39750	0.0	21.20	20.67	1	50	Right	5	0.811	0.607	1.125	0.612	0.309	0.408	20.50	0.610	0.306		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.03	2506.00	39750	0.0	21.20	20.69	50	0	Right	5	0.811	0.608	1.125	0.612	0.309	0.408	20.50	0.610	0.306		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	-0.05	2506.00	39750	0.0	21.20	20.67	1	50	Left	5	0.811	0.608	1.130	0.637	0.309	0.424	20.50	0.610	0.306		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.03	2506.00	39750	0.0	21.20	20.69	50	0	Left	5	0.811	0.617	1.125	0.612	0.309	0.424	20.50	0.610	0.306		
Body	LTE Band 41	20	QPSK	4	60NCW	1.1.58	0.00	2506.00	39750	0.0	21.20	20.68	50	0	Top	5	1.050	0.980	1.081	1.103	0.411	0.689	20.50	0.920	0.575		
Body	LTE Band 41	20	QPSK	4	60NCW	1.2.31	0.01	2525.80	39948	0.0	22.80	21.90	50	0	Top	5	0.969	0.962	1.231	1.192	0.445	0.745	22.10	1.000	0.625		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																	Body 1.5 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																											

10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.05	3560.00	55340	0.0	23.00	22.03	1	50	Back	5	0.809	0.532	1.250	1.011	0.415	0.632	22.30	0.850	0.531	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.01	3603.50	55773	0.0	23.00	21.96	1	50	Back	5	0.792	0.519	1.271	1.007	0.405	0.629	22.30	0.840	0.525	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.02	3646.70	56207	0.0	23.00	22.17	1	50	Back	5	0.801	0.544	1.211	1.066	0.417	0.666	22.30	0.930	0.556	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.04	3690.00	56640	0.0	23.00	21.96	1	50	Back	5	0.795	0.511	1.271	1.010	0.395	0.631	22.30	0.850	0.531	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.07	3560.00	55340	0.5	22.50	21.40	50	25	Back	5	0.699	0.290	1.288	0.900	0.374	0.563	21.80	0.750	0.469	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.08	3603.50	55773	0.5	22.50	21.45	50	25	Back	5	0.691	0.289	1.274	0.880	0.357	0.550	21.80	0.740	0.463	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.12	3646.70	56207	0.5	22.50	21.55	50	25	Back	5	0.700	0.289	1.245	0.894	0.357	0.578	21.80	0.730	0.463	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.05	3620.50	56040	0.5	22.50	21.47	50	25	Back	5	0.729	0.288	1.268	0.924	0.365	0.578	21.80	0.770	0.481	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.05	3646.70	56207	0.5	22.50	21.47	100	0	Back	5	0.714	0.288	1.268	0.905	0.363	0.568	21.80	0.760	0.475	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.21	3646.70	56207	0.0	23.00	22.17	1	50	Top	5	0.039	0.008	1.211	0.024	0.010	0.015	22.30	0.020	0.013	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.04	3646.70	56207	0.5	22.50	21.55	50	25	Top	5	0.018	0.006	1.245	0.020	0.007	0.013	21.80	0.020	0.011	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.01	3646.70	56207	0.0	23.00	22.17	1	50	Bottom	5	0.388	0.330	1.211	0.409	0.157	0.256	22.30	0.340	0.211	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.04	3646.70	56207	0.5	22.50	21.55	50	25	Bottom	5	0.278	0.107	1.245	0.346	0.133	0.216	21.80	0.290	0.181	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.15	3646.70	56207	0.0	23.00	22.17	1	50	Right	5	0.003	0.006	1.211	0.004	0.000	0.003	22.30	0.000	0.000	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.10	3646.70	56207	0.5	22.50	21.55	50	25	Right	5	0.003	0.005	1.245	0.004	0.000	0.003	21.80	0.000	0.000	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.02	3560.00	55340	0.0	23.00	22.03	1	50	Left	5	0.955	0.388	1.250	1.194	0.485	0.746	22.30	1.000	0.625	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.00	3560.00	55340	0.0	23.00	21.96	1	50	Left	5	0.700	0.379	1.268	1.141	0.469	0.723	22.30	0.960	0.600	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.03	3603.50	55773	0.0	23.00	21.96	1	50	Left	5	0.885	0.342	1.271	1.125	0.435	0.703	22.30	0.940	0.588	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.01	3646.70	56207	0.0	23.00	22.17	1	50	Left	5	0.794	0.359	1.211	0.962	0.374	0.601	22.30	0.810	0.506	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.02	3690.00	56640	0.0	23.00	21.96	1	50	Left	5	0.721	0.297	1.271	0.980	0.377	0.623	22.30	0.820	0.512	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.00	3560.00	55340	0.5	22.50	21.40	50	25	Left	5	0.794	0.311	1.265	1.023	0.401	0.639	21.80	0.860	0.538	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.01	3603.50	55773	0.5	22.50	21.45	50	25	Left	5	0.760	0.297	1.274	0.968	0.378	0.605	21.80	0.810	0.506	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.00	3646.70	56207	0.5	22.50	21.56	50	25	Left	5	0.716	0.278	1.265	0.890	0.346	0.556	21.80	0.750	0.469	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	-0.01	3690.00	56640	0.5	22.50	21.47	50	25	Left	5	0.712	0.275	1.263	0.903	0.349	0.554	21.80	0.760	0.475	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.01	3646.70	56207	0.5	22.50	21.47	100	0	Left	5	0.724	0.282	1.268	0.918	0.358	0.574	21.80	0.770	0.481	
Body	LTE Band 48	20	QPSK	1a	34C7C	1:1.58	0.04	3579.80	55538	0.0	23.00	22.00	1	0	Left	5	0.864	0.346	1.259	1.088	0.436	0.680	22.30	0.910	0.569	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																										

Table 10-44 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.03	3560.00	55340	0.0	19.20	18.41	1	50	Back	5	0.818	0.363	1.204	0.977	0.413	0.611	18.70	0.868	0.543	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.01	3603.50	55773	0.0	19.20	18.39	1	50	Back	5	0.767	0.339	1.205	0.924	0.408	0.578	18.70	0.821	0.513	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.00	3646.70	56207	0.0	19.20	18.50	1	50	Back	5	0.726	0.319	1.175	0.853	0.375	0.533	18.70	0.768	0.474	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.00	3690.00	56640	0.0	19.20	18.37	1	50	Back	5	0.739	0.314	1.211	0.882	0.380	0.551	18.70	0.783	0.489	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.01	3560.00	55340	1.0	18.20	17.52	50	25	Back	5	0.479	0.207	1.169	0.560	0.242	0.350	17.70	0.497	0.311	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.02	3603.50	55773	1.0	18.20	17.58	50	25	Back	5	0.460	0.210	1.153	0.545	0.242	0.353	17.70	0.502	0.314	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.04	3646.70	56207	1.0	18.20	17.62	50	25	Back	5	0.518	0.220	1.143	0.592	0.251	0.370	17.70	0.526	0.329	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.01	3690.00	56640	1.0	18.20	17.51	50	0	Back	5	0.526	0.217	1.172	0.616	0.254	0.385	17.70	0.547	0.342	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.09	3646.70	56207	1.0	18.20	17.51	100	0	Back	5	0.524	0.222	1.172	0.649	0.272	0.405	17.70	0.576	0.360	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.08	3646.70	56207	0.0	19.20	18.50	1	50	Top	5	0.015	0.006	1.175	0.018	0.007	0.011	18.70	0.016	0.010	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.08	3646.70	56207	1.0	18.20	17.62	50	25	Top	5	0.012	0.005	1.143	0.014	0.006	0.009	17.70	0.012	0.008	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.00	3646.70	56207	0.0	19.20	18.50	1	50	Bottom	5	0.341	0.127	1.175	0.402	0.155	0.251	18.70	0.357	0.223	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.01	3646.70	56207	1.0	18.20	17.62	50	25	Bottom	5	0.086	0.077	1.143	0.238	0.088	0.149	17.70	0.121	0.112	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.02	3560.00	55340	0.0	19.20	18.43	1	50	Right	5	0.943	0.366	1.194	1.126	0.437	0.704	18.70	1.000	0.625	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.01	3560.00	55340	0.0	19.20	18.42	1	99	Right	5	0.910	0.354	1.197	1.089	0.414	0.681	18.70	0.967	0.604	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.03	3603.50	55773	0.0	19.20	18.39	1	50	Right	5	0.895	0.362	1.205	1.078	0.436	0.674	18.70	0.957	0.598	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.03	3646.70	56207	0.0	19.20	18.50	1	50	Right	5	0.844	0.341	1.175	0.992	0.401	0.620	18.70	0.881	0.551	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.02	3690.00	56640	0.0	19.20	18.37	1	50	Right	5	0.787	0.319	1.211	0.913	0.386	0.596	18.70	0.846	0.529	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	-0.01	3560.00	55340	1.0	18.20	17.52	50	25	Right	5	0.517	0.208	1.169	0.604	0.243	0.378	17.70	0.536	0.335	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.00	3603.50	55773	1.0	18.20	17.58	50	25	Right	5	0.538	0.217	1.153	0.620	0.250	0.388	17.70	0.551	0.344	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.00	3646.70	56207	1.0	18.20	17.61	100	0	Right	5	0.517	0.214	1.164	0.644	0.267	0.403	17.70	0.563	0.372	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.01	3690.00	56640	1.0	18.20	17.51	50	0	Right	5	0.512	0.208	1.172	0.600	0.244	0.375	17.70	0.533	0.333	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.01	3646.70	56207	1.0	18.20	17.51	100	0	Right	5	0.539	0.217	1.172	0.632	0.254	0.395	17.70	0.563	0.351	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.05	3646.70	56207	0.0	19.20	18.50	1	50	Left	5	0.003	0.000	1.175	0.004	0.000	0.001	18.70	0.004	0.001	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.02	3646.70	56207	1.0	18.20	17.62	50	25	Left	5	0.002	0.000	1.143	0.002	0.000	0.001	17.70	0.002	0.000	
Body	LTE Band 48	20	QPSK	2	969HX	1:1.58	0.00	3560.00	55340	0.0	19.40	18.45	1	99	Left	5	0.895	0.345	1.243	1.114	0.430	0.696	18.70	0.989	0.618	
ANSI/IEEE C63.1982 - SAFETY LIMIT Spatial Peak																Body 1.6 W/(kg) averaged over 1 gram										
Uncontrolled Exposure/General Population																										

Table 10-45 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #		
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3560.00	55340	0.0	21.10	20.54	1	50	Back	5	0.729	0.348	1.138	0.830	0.396	0.519	20.60	0.730	0.456			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.02	3603.30	55773	0.0	21.10	20.60	1	50	Back	5	0.718	0.350	1.122	0.850	0.398	0.531	20.60	0.750	0.469			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.03	3646.70	56207	0.0	21.10	20.17	1	50	Back	5	0.683	0.313	1.239	0.846	0.400	0.529	20.60	0.740	0.463			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.03	3690.00	56640	0.0	21.10	20.21	1	50	Back	5	0.683	0.313	1.227	0.814	0.388	0.509	20.60	0.720	0.450			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.03	3560.00	55340	1.0	20.10	19.56	50	25	Back	5	0.526	0.222	1.133	0.595	0.251	0.372	19.60	0.520	0.325			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.03	3603.30	55773	1.0	20.10	19.61	50	25	Back	5	0.524	0.220	1.119	0.598	0.246	0.374	19.60	0.520	0.321			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.03	3646.70	56207	1.0	20.10	19.55	50	25	Back	5	0.485	0.197	1.155	0.528	0.215	0.330	19.60	0.460	0.298			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.05	3690.00	56640	1.0	20.10	19.42	50	25	Back	5	0.432	0.177	1.169	0.505	0.207	0.316	19.60	0.440	0.275			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3603.30	55773	1.0	20.10	19.50	100	0	Back	5	0.616	0.290	1.148	0.707	0.313	0.442	19.60	0.520	0.389			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.06	3603.30	55773	0.0	21.10	20.60	1	50	Top	5	0.906	0.331	1.122	0.343	0.147	0.214	20.60	0.300	0.188			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.02	3603.30	55773	1.0	20.10	19.61	50	25	Top	5	0.199	0.078	1.119	0.223	0.087	0.139	19.60	0.200	0.125			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.05	3603.30	55773	0.0	21.10	20.60	1	50	Bottom	5	0.017	0.005	1.122	0.013	0.006	0.008	20.60	0.010	0.006			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.02	3603.30	55773	1.0	20.10	19.61	50	25	Bottom	5	0.010	0.004	1.119	0.011	0.004	0.007	19.60	0.010	0.006			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.00	3560.00	55340	0.0	21.10	20.54	1	50	Right	5	1.000	0.392	1.138	1.138	0.446	0.711	20.60	1.000	0.625	A15		
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.03	3560.00	55340	0.0	21.10	20.53	1	99	Right	5	0.913	0.368	1.140	1.064	0.417	0.665	20.60	0.940	0.588			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.02	3603.30	55773	0.0	21.10	20.60	1	50	Right	5	0.941	0.394	1.122	1.056	0.442	0.660	20.60	0.930	0.581			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.02	3646.70	56207	0.0	21.10	20.17	1	50	Right	5	0.877	0.367	1.239	1.087	0.455	0.679	20.60	0.960	0.600			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3690.00	56640	0.0	21.10	20.21	1	50	Right	5	0.861	0.363	1.227	1.093	0.445	0.662	20.60	0.930	0.581			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3560.00	55340	1.0	20.10	19.56	50	25	Right	5	0.740	0.388	1.132	0.838	0.327	0.524	19.60	0.740	0.463			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.00	3603.30	55773	1.0	20.10	19.61	50	25	Right	5	0.697	0.275	1.119	0.780	0.308	0.468	19.60	0.690	0.431			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3646.70	56207	1.0	20.10	19.55	50	25	Right	5	0.664	0.267	1.155	0.742	0.292	0.465	19.60	0.650	0.406			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3690.00	56640	1.0	20.10	19.42	50	25	Right	5	0.611	0.254	1.188	0.761	0.287	0.476	19.60	0.670	0.419			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.02	3603.30	55773	1.0	20.10	19.50	100	0	Right	5	0.750	0.293	1.148	0.863	0.336	0.538	19.60	0.760	0.475			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.07	3603.30	55773	0.0	21.10	20.60	1	50	Left	5	0.000	0.000	1.122	0.000	0.000	0.000	20.60	0.000	0.000			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.09	3603.30	55773	1.0	20.10	19.61	50	25	Left	5	0.000	0.000	1.119	0.000	0.000	0.000	19.60	0.000	0.000			
Body	LTE Band 48	20	QPSK	3a	968HX	1:1.58	-0.01	3560.00	55340	0.0	21.10	20.50	1	99	Right	5	0.887	0.343	1.148	1.018	0.394	0.636	20.60	0.890	0.556			
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 10-46 Antenna 4

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	4	7RWVX	1:1.58	-0.01	3560.00	55340	0.0	21.00	20.50	1	50	Back	5	0.793	0.330	1.122	0.890	0.370	0.556	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	0.00	3560.00	55340	0.0	21.00	20.39	1	99	Back	5	0.742	0.310	1.151	0.854	0.357	0.534	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.00	3603.30	55773	0.0	21.00	20.52	1	50	Back	5	0.752	0.298	1.117	0.840	0.333	0.525	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.07	3646.70	56207	0.0	21.00	20.59	1	50	Back	5	0.668	0.267	1.099	0.734	0.293	0.459	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.01	3690.00	56640	0.0	21.00	20.17	1	50	Back	5	0.570	0.227	1.156	0.659	0.262	0.412	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.07	3646.70	56207	1.0	20.00	19.69	50	50	Back	5	0.500	0.201	1.074	0.517	0.216	0.336	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.02	3646.70	56207	1.0	20.00	19.62	100	0	Back	5	0.484	0.267	1.091	0.491	0.246	0.391	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.00	3646.70	56207	0.0	21.00	20.59	1	50	Top	5	0.324	0.117	1.099	0.356	0.129	0.223	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.01	3646.70	56207	1.0	20.00	19.69	50	50	Top	5	0.270	0.096	1.074	0.290	0.103	0.181	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.03	3646.70	56207	0.0	21.00	20.59	1	50	Bottom	5	0.011	0.003	1.099	0.012	0.003	0.008	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.01	3646.70	56207	1.0	20.00	19.69	50	50	Bottom	5	0.010	0.004	1.074	0.011	0.004	0.007	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	0.07	3646.70	56207	0.0	21.00	20.59	1	50	Right	5	0.001	0.000	1.099	0.001	0.000	0.001	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.06	3646.70	56207	1.0	20.00	19.69	50	50	Right	5	0.000	0.000	1.074	0.000	0.000	0.000	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.01	3560.00	55340	0.0	21.00	20.50	1	50	Left	5	0.649	0.270	1.122	0.728	0.303	0.455	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.00	3603.30	55773	0.0	21.00	20.12	1	50	Left	5	0.621	0.259	1.117	0.694	0.289	0.434	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.02	3646.70	56207	0.0	21.00	20.59	1	50	Left	5	0.636	0.261	1.099	0.699	0.287	0.437	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	-0.01	3690.00	56640	0.0	21.00	20.17	1	50	Left	5	0.483	0.199	1.156	0.558	0.230	0.349	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	0.01	3646.70	56207	1.0	20.00	19.69	50	50	Left	5	0.541	0.219	1.074	0.581	0.235	0.363	
Body	LTE Band 48	20	QPSK	4	7RWVX	1:1.58	0.00	3560.00	55340	0.0	21.10	20.31	1	99	Back	5	0.762	0.316	1.199	0.914	0.379	0.571	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g)						
																	averaged over 1 gram						

10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 2

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	2	FF72Q	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.00	24.28	1	1	Back	5	0.986	0.577	1.080	1.178	0.681	0.736	24.30	1.000	0.625	A16
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.00	24.42	50	36	Back	5	0.977	0.565	1.043	1.117	0.646	0.696	24.30	0.950	0.594	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.7	24.30	23.72	100	0	Back	5	0.970	0.564	1.043	0.954	0.576	0.621	23.50	0.840	0.525	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	0.00	680.50	136100	CP-OFDM	1.2	23.60	22.92	1	1	Back	5	0.828	0.478	1.225	1.014	0.585	0.634	23.10	0.860	0.535	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.17	680.50	136100	DFT-s-OFDM	0.0	25.00	24.38	1	1	Top	5	0.924	0.522	1.080	0.640	0.626	0.632	24.30	0.930	0.610	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	25.00	24.42	50	28	Top	5	0.930	0.521	1.043	0.934	0.624	0.621	24.30	0.930	0.610	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.00	24.38	1	1	Bottom	5	0.886	0.494	1.080	0.750	0.418	0.469	24.30	0.640	0.480	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	25.00	24.42	50	28	Bottom	5	0.917	0.514	1.043	0.717	0.401	0.448	24.30	0.610	0.381	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.00	24.38	1	1	Right	5	0.518	0.310	1.080	0.635	0.366	0.397	24.30	0.540	0.338	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.00	24.41	50	36	Right	5	0.467	0.272	1.043	0.538	0.311	0.334	24.30	0.450	0.281	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	25.00	24.38	1	1	Left	5	0.115	0.065	1.080	0.148	0.070	0.093	24.30	0.130	0.081	
Body	NR Band n71	20	QPSK	2	FF72Q	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.00	24.42	50	28	Left	5	0.112	0.077	1.043	0.128	0.088	0.080	24.30	0.110	0.069	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-48 Antenna 4

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	4	960H	1:1	-0.50	680.50	136100	DFT-s-OFDM	0.0	25.50	24.29	1	104	Back	5	0.839	0.503	1.321	1.108	0.662	0.693	25.00	0.970	0.606	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.00	680.50	136100	DFT-s-OFDM	0.0	25.50	24.34	50	28	Back	5	0.857	0.513	1.137	1.139	0.686	0.712	25.00	1.000	0.625	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.7	24.60	24.13	100	0	Back	5	0.649	0.439	1.067	0.809	0.512	0.526	24.50	0.710	0.444	
Body	NR Band n71	20	QPSK	4	960H	1:1	0.03	680.50	136100	CP-OFDM	1.2	24.80	23.78	1	1	Back	5	0.649	0.389	1.227	0.731	0.438	0.457	23.80	0.460	0.400	
Body	NR Band n71	20	QPSK	4	960H	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.50	24.39	1	104	Top	5	0.526	0.307	1.321	0.695	0.406	0.434	25.00	0.610	0.381	
Body	NR Band n71	20	QPSK	4	960H	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.50	24.34	50	28	Top	5	0.540	0.300	1.037	0.722	0.401	0.451	25.00	0.530	0.394	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.50	24.39	1	104	Bottom	5	0.562	0.321	1.031	0.655	0.437	0.504	25.00	0.590	0.451	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	25.50	24.34	50	28	Bottom	5	0.546	0.303	1.037	0.652	0.441	0.499	25.00	0.560	0.430	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.50	24.39	1	104	Right	5	0.505	0.303	1.216	0.623	0.406	0.434	25.00	0.610	0.406	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.50	24.34	50	36	Right	5	0.500	0.304	1.037	0.567	0.345	0.362	25.00	0.560	0.358	
Body	NR Band n71	20	QPSK	4	960H	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.50	24.39	1	104	Left	5	0.363	0.205	1.321	0.477	0.271	0.298	25.00	0.430	0.263	
Body	NR Band n71	20	QPSK	4	960H	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.50	24.34	50	36	Left	5	0.368	0.212	1.037	0.482	0.297	0.326	25.00	0.430	0.268	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

10.17 NR Band n12 Standalone SAR

Table 10-49 Antenna 2

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	2	4K93C	1:1	-0.00	707.50	141500	DFT-s-OFDM	0.0	25.00	24.15	1	40	Back	5	0.931	0.533	1.216	1.132	0.648	0.708	24.50	1.000	0.625	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.12	707.50	141500	DFT-s-OFDM	0.0	25.00	24.42	36	22	Back	5	0.925	0.542	1.043	1.057	0.621	0.661	24.50	0.930	0.581	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.00	707.50	141500	DFT-s-OFDM	0.0	25.20	23.72	75	0	Back	5	0.690	0.442	1.117	0.771	0.465	0.482	23.70	0.680	0.425	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.00	707.50	141500	CP-OFDM	1.3	23.70	23.05	1	1	Back	5	0.613	0.375	1.081	0.735	0.431	0.459	23.20	0.650	0.406	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.00	24.15	1	40	Top	5	0.929	0.531	1.216	0.923	0.516	0.614	24.50	0.920	0.613	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.00	24.42	36	22	Top	5	0.918	0.531	1.043	0.921	0.613	0.613	24.50	0.920	0.613	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.00	707.50	141500	DFT-s-OFDM	0.0	25.00	24.15	1	40	Bottom	5	0.943	0.530	1.216	0.685	0.377	0.428	24.50	0.610	0.381	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.00	707.50	141500	DFT-s-OFDM	0.0	25.00	24.42	36	22	Bottom	5	0.947	0.530	1.043	0.625	0.345	0.391	24.50	0.530	0.344	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.00	24.15	1	40	Right	5	0.568	0.216	1.216	0.435	0.260	0.272	24.50	0.380	0.238	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	25.00	24.42	36	22	Right	5	0.547	0.205	1.043	0.397	0.229	0.246	24.50	0.350	0.219	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	-0.17	707.50	141500	DFT-s-OFDM	0.0	25.00	24.15	1	40	Left	5	0.027	0.033	1.216	0.033	0.022	0.021	24.50	0.030	0.019	
Body	NR Band n12	15	QPSK	2	4K93C	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.00	24.42	36	22	Left	5	0.026	0.018	1.043	0.030	0.021	0.019	24.50	0.030	0.019	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-50 Antenna 4

10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 2

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 Ratio (SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Reported 1g SAR [W/kg]	Plot #
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.51	793.00	158680	DFT+OFDM	0.0	25.10	24.30	1	26	Back	5	0.509	0.538	1.230	1.118	0.662	0.699	24.50	0.970	0.605		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.04	793.00	158680	DFT+OFDM	0.0	25.10	24.25	23	14	Back	5	0.891	0.949	1.216	1.156	0.668	0.723	24.50	1.000	0.625	A18	
Body	NB Band n14	10	QPSK	2	79WVX	1:1	0.00	793.00	158680	DFT+OFDM	0.5	24.60	22.28	50	0	Back	5	0.811	0.878	1.303	1.099	0.648	0.687	24.50	0.994	0.594		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.01	793.00	158680	CP-OFDM	1.0	24.10	22.48	1	26	Back	5	0.777	0.843	1.324	0.976	0.587	0.630	23.50	0.840	0.520		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	0.00	793.00	158680	DFT+OFDM	0.0	25.10	24.20	1	26	Top	5	0.029	0.020	1.320	0.036	0.025	0.023	24.50	0.030	0.019		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.04	793.00	158680	DFT+OFDM	0.0	25.10	24.20	23	14	Bottom	5	0.518	0.560	1.230	0.637	0.637	0.673	24.50	0.970	0.605		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.02	793.00	158680	DFT+OFDM	0.0	25.10	24.20	1	26	Bottom	5	0.518	0.560	1.230	0.637	0.377	0.398	24.50	0.530	0.344		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.04	793.00	158680	DFT+OFDM	0.0	25.10	24.25	25	14	Bottom	5	0.523	0.573	1.216	0.636	0.330	0.398	24.50	0.530	0.344		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.04	793.00	158680	DFT+OFDM	0.0	25.10	24.25	1	26	Right	5	0.394	0.426	1.216	0.398	0.243	0.263	24.50	0.440	0.219		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.09	793.00	158680	DFT+OFDM	0.0	25.10	24.25	23	14	Right	5	0.438	0.460	1.216	0.399	0.246	0.249	24.50	0.440	0.219		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	0.06	793.00	158680	DFT+OFDM	0.0	25.10	24.20	1	26	Left	5	0.035	0.022	1.230	0.043	0.027	0.027	24.50	0.040	0.020		
Body	NB Band n14	10	QPSK	2	79WVX	1:1	-0.11	793.00	158680	DFT+OFDM	0.0	25.10	24.25	0.26	14	Left	5	0.080	0.080	1.216	0.036	0.024	0.023	24.50	0.030	0.019		
UNCLASSIFIED - 1992 - SAFETY LIMIT																			Body									
Annual/IEEE C95.1-1992 - SAFETY LIMIT																			6.416 W/kg averaged over 6 gsm									
Unacceptable Exposure/General Population																			6.416 W/kg averaged over 6 gsm									

Table 10-52 Antenna 4

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]	RIS size	RIS 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]	Plot #
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.03	793.00	135860	DFT-1-OFDM	0.0	25.30	24.38	1	26	Back	5	0.835	0.922	1.236	1.032	0.820	0.465	25.10	0.970	0.605	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	0.02	793.00	135860	DFT-1-OFDM	0.0	25.30	24.21	23	14	Back	5	0.889	0.939	1.227	1.068	0.661	0.466	25.10	1.000	0.625	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.08	793.00	135860	DFT-1-OFDM	0.4	24.90	23.79	50	0	Back	5	0.777	0.871	1.291	1.003	0.608	0.467	24.70	0.940	0.586	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.01	793.00	135860	CP-OFDM	0.0	24.90	24.31	1	26	Back	5	0.755	0.848	1.233	0.936	0.548	0.372	25.20	0.860	0.538	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.02	793.00	135860	DFT-1-OFDM	0.0	25.30	24.38	1	26	Top	5	0.624	0.638	1.236	0.771	0.405	0.482	25.10	0.720	0.450	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.02	793.00	135860	DFT-1-OFDM	0.0	25.30	24.38	25	26	Bottom	5	0.624	0.638	1.236	0.771	0.405	0.482	25.10	0.720	0.450	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.08	793.00	135860	DFT-1-OFDM	0.4	24.90	23.79	50	0	Back	5	0.755	0.848	1.233	0.936	0.548	0.372	25.20	0.860	0.538	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	0.08	793.00	135860	DFT-1-OFDM	0.0	25.30	24.38	25	26	Bottom	5	0.932	1.022	1.236	0.940	0.607	0.502	25.10	1.040	0.625	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	0.07	793.00	135860	DFT-1-OFDM	0.0	25.30	24.41	25	14	Bottom	5	0.693	0.693	1.227	0.640	0.408	0.402	25.10	0.640	0.402	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.01	793.00	135860	DFT-1-OFDM	0.0	25.30	24.38	1	26	Left	5	0.675	0.675	1.236	0.675	0.408	0.408	25.10	0.675	0.408	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	0.14	793.00	135860	DFT-1-OFDM	0.0	25.30	24.41	25	14	Right	5	0.654	0.654	1.227	0.666	0.404	0.404	25.10	0.660	0.398	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	-0.07	793.00	135860	DFT-1-OFDM	0.0	25.30	24.38	1	26	Left	5	0.616	0.727	1.236	0.514	0.293	0.321	25.10	0.480	0.300	
Body	NR Band n14	10	QPSK	4	H5C9H	1:1	0.04	793.00	135860	DFT-1-OFDM	0.0	25.30	24.41	25	14	Left	5	0.620	0.638	1.227	0.515	0.293	0.321	25.10	0.480	0.300	
UNCLASSIFIED ORL 1592 - SAFETY LIMIT																				Body					Plot #		
Announced Exposure/General Population																				1.6 W/kg (W/kg)					stored over 1 gram		

10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 2

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Total Number	Duty Cycle	Power DUT1 (dB)	Frequency (MHz)	Channel B	Waveform	MPE (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RIS Size	RIS 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 Time-on-Power	Simultaneous Reported 1g SAR (W/kg)	Simultaneous Reported 10g SAR (W/kg)	Plot #
Body	NR Band n26	20	QPSK	2	M4TC	1:1	-0.05	831.50	166300	DFT-F-OFDM	0.0	24.80	23.40	1	53	Back	5	0.816	0.529	1.259	1.027	0.666	0.442	24.60	1.902	0.608	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.02	831.50	166300	DFT-F-OFDM	0.0	24.80	23.82	50	28	Back	5	0.843	0.563	1.253	1.056	0.683	0.460	24.60	1.900	0.626	A19
Body	NR Band n26	20	QPSK	2	M4TC	1:1	-0.01	831.50	166300	DFT-F-OFDM	0.1	24.70	23.79	100	0	Back	5	0.798	0.526	1.230	0.984	0.649	0.415	24.50	0.932	0.883	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.02	831.50	166300	CP-OFDM	0.0	24.50	23.77	50	28	Back	5	0.693	0.494	1.304	0.705	0.501	0.470	24.70	0.724	0.943	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.01	831.50	166300	DFT-F-OFDM	0.0	24.70	23.40	1	53	Top	5	0.015	0.006	1.259	0.019	0.013	0.012	24.60	0.016	0.915	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.04	831.50	166300	DFT-F-OFDM	0.0	24.80	23.52	50	28	Top	5	0.055	0.009	1.253	0.059	0.012	0.002	24.60	0.018	0.911	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.02	831.50	166300	DFT-F-OFDM	0.0	24.80	23.50	50	28	Bottom	5	0.055	0.009	1.253	0.059	0.012	0.002	24.60	0.018	0.911	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.03	831.50	166300	DFT-F-OFDM	0.0	24.80	23.83	50	28	Bottom	5	0.410	0.213	1.263	0.514	0.267	0.021	24.60	0.487	0.904	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.02	831.50	166300	DFT-F-OFDM	0.0	24.80	23.46	50	28	Right	5	0.397	0.260	1.263	0.497	0.311	0.311	24.60	0.471	0.929	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.03	831.50	166300	DFT-F-OFDM	0.0	24.80	23.82	50	28	Right	5	0.397	0.260	1.263	0.497	0.311	0.311	24.60	0.471	0.929	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.09	831.50	166300	DFT-F-OFDM	0.0	24.80	23.80	1	53	Left	5	0.039	0.006	1.299	0.049	0.033	0.031	24.60	0.040	0.994	
Body	NR Band n26	20	QPSK	2	M4TC	1:1	0.09	831.50	166300	DFT-F-OFDM	0.0	24.80	23.82	50	28	Left	5	0.039	0.007	1.253	0.039	0.034	0.031	24.60	0.047	0.929	
UNCLASSIFIED ONLY (L2) - SAFETY LIMIT																			Body								
Anomalous/Unusual Population																			1.6 W/kg (mW/g)								
																			not over 1.6 W/kg								

Table 10-54 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drft[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]	Exposure Ratio [1g SAR]	Plot #
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	24.50	23.79	1	104	Back	5	0.772	0.511	1.178	0.909	0.602	0.568
Body	NR Band n26	20	QPSK	4	34C7C	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	24.50	23.82	50	28	Back	5	0.750	0.478	1.169	0.877	0.559	0.548
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.50	23.77	100	0	Back	5	0.746	0.477	1.183	0.883	0.564	0.552
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.00	831.50	166300	CP-OFDM	0.5	24.00	23.14	1	1	Back	5	0.662	0.491	1.091	0.451	0.431	
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	24.50	23.79	1	104	Top	5	0.391	0.199	1.178	0.461	0.234	0.288
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.50	23.82	50	28	Top	5	0.366	0.249	1.169	0.428	0.291	0.268
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.50	23.79	50	28	Top	5	0.407	0.279	1.178	0.430	0.303	0.288
Body	NR Band n26	20	QPSK	4	34C7C	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	24.50	23.82	50	28	Bottom	5	0.022	0.015	1.169	0.026	0.018	0.016
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.13	831.50	166300	DFT-s-OFDM	0.0	24.50	23.79	1	104	Right	5	0.047	0.031	1.178	0.055	0.037	0.034
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.50	23.82	50	28	Right	5	0.040	0.027	1.169	0.047	0.032	0.029
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.12	831.50	166200	DFT-s-OFDM	0.0	24.50	23.79	1	104	Left	5	0.358	0.217	1.178	0.421	0.256	0.264
Body	NR Band n26	20	QPSK	4	34C7C	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	24.50	23.82	50	28	Left	5	0.271	0.172	1.169	0.317	0.201	0.198
ANSI/IEEE C95.3 1992 - SAFETY LIMIT																							
Unconsolidated Equivalent General Population																		Body averaged over 10g					
Spatial Peak																		1.6 W/kg (mW/g)					

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10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 2

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 Exposure Ratio (1g SAR)	Plot #
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	24.80	23.78	1	104	Back	5	0.929	0.588	1.265	1.175	0.744	0.734	24.10	1.000	0.625	A20
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.80	23.83	50	26	Back	5	0.962	0.580	1.250	1.128	0.725	0.704	24.10	0.960	0.600	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	24.30	23.39	100	0	Back	5	0.948	0.540	1.533	1.046	0.667	0.654	22.50	0.880	0.556	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.01	836.50	167300	CP-OFDM	1.0	23.80	22.81	1	1	Back	5	0.698	0.458	1.256	0.877	0.575	0.548	23.10	0.730	0.469	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	24.80	23.78	1	104	Top	5	0.921	0.586	1.265	0.932	0.620	0.600	24.10	0.930	0.601	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	24.80	23.81	50	28	Top	5	0.931	0.604	1.250	0.936	0.618	0.616	24.10	0.920	0.613	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	24.80	23.78	1	104	Bottom	5	0.463	0.233	1.355	0.584	0.295	0.303	24.10	0.520	0.311	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	24.80	23.81	50	28	Bottom	5	0.477	0.236	1.250	0.596	0.295	0.373	24.10	0.510	0.319	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.16	836.50	167300	DFT-s-OFDM	0.0	24.80	23.78	1	104	Right	5	0.381	0.232	1.265	0.495	0.310	0.309	24.10	0.420	0.263	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.29	836.50	167300	DFT-s-OFDM	0.0	24.80	23.81	50	28	Right	5	0.389	0.233	1.250	0.488	0.314	0.304	24.10	0.410	0.266	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	24.80	23.78	1	104	Left	5	0.958	0.645	1.265	0.986	0.657	0.654	24.10	0.970	0.644	
Body	NR Band n5	20	QPSK	2	34C7C	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.80	23.81	50	28	Left	5	0.950	0.634	1.250	0.963	0.643	0.639	24.10	0.950	0.631	
ANSI/IEEE C63.1.1-1997 SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-56 Antenna 4

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 n5	20	QPSK	4	H473H	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	24.50	23.56	1	53	Back	5	0.766	0.481	1.242	0.951	0.597	0.594		
Body	NR Band n5	20	QPSK	4	H473H	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	24.50	23.48	50	0	Back	5	0.774	0.503	1.265	0.979	0.636	0.612		
Body	NR Band n5	20	QPSK	4	H473H	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	24.50	23.47	100	0	Back	5	0.761	0.482	1.268	0.965	0.612	0.603		
Body	NR Band n5	20	QPSK	4	H473H	1:1	-0.04	836.50	167300	CP-OFDM	0.5	24.00	23.21	1	1	Back	5	0.694	0.477	1.199	0.832	0.572	0.520		
Body	NR Band n5	20	QPSK	4	H473H	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	24.50	23.56	1	53	Top	5	0.393	0.197	1.242	0.488	0.245	0.305		
Body	NR Band n5	20	QPSK	4	H473H	1:1	-0.10	836.50	167300	DFT-s-OFDM	0.0	24.50	23.48	50	0	Top	5	0.335	0.168	1.265	0.424	0.213	0.265		
Body	NR Band n5	20	QPSK	4	H473H	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	24.50	23.56	1	53	Bottom	5	0.029	0.019	1.242	0.036	0.024	0.023		
Body	NR Band n5	20	QPSK	4	H473H	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	24.50	23.48	50	0	Bottom	5	0.020	0.013	1.265	0.025	0.016	0.016		
Body	NR Band n5	20	QPSK	4	H473H	1:1	-0.17	836.50	167300	DFT-s-OFDM	0.0	24.50	23.56	1	53	Right	5	0.044	0.029	1.242	0.055	0.036	0.034		
Body	NR Band n5	20	QPSK	4	H473H	1:1	0.13	836.50	167300	DFT-s-OFDM	0.0	24.50	23.48	50	0	Right	5	0.036	0.024	1.265	0.046	0.030	0.029		
Body	NR Band n5	20	QPSK	4	H473H	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	24.50	23.56	1	53	Left	5	0.310	0.195	1.242	0.385	0.242	0.241		
Body	NR Band n5	20	QPSK	4	H473H	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.50	23.48	50	0	Left	5	0.277	0.170	1.265	0.350	0.226	0.219		
ANSI/IEEE C63.1.1-1997 SAFETY LIMIT																		Body							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

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10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1b

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 n70	15	QPSK	10	Y1Y4M4	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	20.20	18.18	1	77	Back	5	0.727	0.338	1.265	0.920	0.428	0.575	19.50	0.778	0.488	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.20	17.20	1	1	Top	5	0.729	0.351	1.263	0.927	0.430	0.586	19.50	0.809	0.508	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:2	-0.90	1702.50	340500	DFT-s-OFDM	0.0	20.20	18.18	75	0	Back	5	0.765	0.382	1.271	0.972	0.447	0.608	19.50	0.822	0.514	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	0.14	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.18	1	77	Top	5	0.904	0.403	1.265	0.905	0.403	0.603	19.50	0.904	0.603	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	20.20	17.20	35	22	Top	5	0.693	0.301	1.253	0.604	0.301	0.603	19.50	0.603	0.603	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.18	1	77	Bottom	5	0.933	0.432	1.265	1.168	0.546	0.730	19.50	0.987	0.617	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.22	35	22	Bottom	5	0.882	0.420	1.253	1.118	0.526	0.699	19.50	0.945	0.591	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.18	1	77	Top	5	0.924	0.409	1.265	0.918	0.410	0.611	19.50	0.918	0.611	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	0.02	1702.50	340500	CP-OFDM	0.0	20.20	19.18	1	1	Bottom	5	0.884	0.418	1.273	1.136	0.531	0.710	19.50	0.940	0.600	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.18	1	77	Right	5	0.924	0.409	1.265	0.918	0.410	0.611	19.50	0.918	0.611	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.22	35	22	Right	5	0.913	0.408	1.253	0.916	0.410	0.610	19.50	0.914	0.609	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	0.10	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.18	1	77	Left	5	0.842	0.403	1.265	0.953	0.412	0.613	19.50	0.945	0.628	
Body	NR Band n70	15	QPSK	10	Y1Y4M4	1:1	-0.08	1702.50	340500	DFT-s-OFDM	0.0	20.20	19.22	35	22	Left	5	0.900	0.403	1.253	0.900	0.409	0.611	19.50	0.942	0.628	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																Body Spatial Peak Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram	

Table 10-58 Antenna 2

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 n70	15	QPSK	2	2M0022	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.40	1	1	Back	5	0.513	0.205	1.209	0.658	0.326	0.411	17.00	0.540	0.350	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Back	5	0.521	0.284	1.242	0.709	0.333	0.443	17.00	0.610	0.381	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Top	5	0.520	0.283	1.242	0.708	0.333	0.443	17.00	0.610	0.381	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Top	5	0.500	0.200	1.242	0.600	0.300	0.400	17.00	0.500	0.000	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.50	1	1	Bottom	5	0.501	0.438	1.259	1.122	0.551	0.701	17.00	0.960	0.650	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Bottom	5	0.504	0.439	1.242	1.120	0.545	0.694	17.00	0.950	0.640	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.50	1	1	Bottom	5	0.501	0.444	1.267	1.169	0.576	0.731	17.00	1.000	0.625	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.06	1702.50	340500	CP-OFDM	0.0	18.50	17.62	1	1	Bottom	5	0.507	0.467	1.245	1.146	0.560	0.730	17.00	0.970	0.686	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.50	1	1	Right	5	0.507	0.461	1.258	0.947	0.465	0.628	17.00	0.940	0.625	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Right	5	0.500	0.403	1.242	0.650	0.326	0.411	17.00	0.610	0.400	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Left	5	0.504	0.400	1.259	0.605	0.303	0.403	17.00	0.600	0.400	
Body	NR Band n70	15	QPSK	2	2M0022	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	18.50	17.56	35	43	Left	5	0.503	0.400	1.242	0.604	0.302	0.403	17.00	0.600	0.400	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																Body Spatial Peak Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram	

Table 10-59 Antenna 3b

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 n70	15	QPSK	35	RW0XLL	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.18	1	1	Back	5	0.685	0.312	1.180	0.808	0.381	0.505	18.00	0.680	0.425	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.25	35	0	Back	5	0.698	0.326	1.174	0.889	0.419	0.556	18.00	0.748	0.468	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.13	75	0	Back	5	0.724	0.340	1.309	0.948	0.445	0.593	18.00	0.797	0.498	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.18	1	1	Top	5	0.846	0.407	1.180	0.918	0.424	0.614	18.00	0.810	0.524	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.25	35	0	Top	5	0.911	0.448	1.174	1.180	0.571	0.743	18.00	1.000	0.625	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.13	75	0	Top	5	0.908	0.433	1.309	1.139	0.549	0.743	18.00	1.000	0.625	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	0.02	1702.50	340500	CP-OFDM	0.0	19.30	18.66	1	1	Top	5	0.985	0.467	1.139	1.137	0.541	0.711	18.00	0.956	0.598	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.18	1	1	Bottom	5	0.906	0.403	1.180	0.907	0.404	0.604	18.00	0.904	0.584	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	0.20	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.25	35	0	Bottom	5	0.904	0.400	1.274	0.905	0.403	0.603	18.00	0.904	0.603	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.18	1	1	Right	5	0.901	0.400	1.180	0.901	0.403	0.603	18.00	0.901	0.603	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	-0.07	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.25	35	0	Right	5	0.901	0.400	1.274	0.905	0.403	0.603	18.00	0.905	0.603	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.25	35	0	Left	5	0.911	0.400	1.180	0.913	0.407	0.608	18.00	0.911	0.607	
Body	NR Band n70	15	QPSK	35	RW0XLL	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	19.30	18.25	35	0	Left	5	0.911	0.400	1.174	0.914	0.406	0.609	18.00	0.912	0.608	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																Body Spatial Peak Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram	

Table 10-60 Antenna 4

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 n70	15	QPSK	4	2M0022	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.38	1	77	Back	5	0.554	0.258	1.127	0.624	0.291	0.390	16.20	0.524	0.328	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Back	5	0.539	0.252	1.112	0.599	0.280	0.374	16.20	0.503	0.314	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.38	1	77	Back	5	0.554	0.258	1.127	0.624	0.291	0.390	16.20	0.524	0.328	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Top	5	0.540	0.498	1.112	1.150	0.554	0.744	16.20	0.904	0.625	A21
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Top	5	0.539	0.474	1.112	1.058	0.560	0.720	16.20	0.884	0.594	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.38	1	77	Top	5	0.554	0.258	1.127	0.624	0.291	0.390	16.20	0.524	0.328	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	CP-OFDM	0.0	16.90	16.56	1	1	Top	5	0.595	0.460	1.081	1.076	0.503	0.673	16.20	0.904	0.565	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Top	5	0.539	0.460	1.081	1.076	0.503	0.673	16.20	0.904	0.565	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Bottom	5	0.605	0.000	1.112	0.006	0.000	0.004	16.20	0.004	0.004	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.38	1	77	Right	5	0.600	0.000	1.127	0.000	0.000	0.000	16.20	0.000	0.000	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Right	5	0.595	0.000	1.112	0.000	0.000	0.000	16.20	0.000	0.000	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.08	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.38	1	77	Left	5	0.564	0.004	1.127	0.077	0.038	0.045	16.20	0.061	0.038	
Body	NR Band n70	15	QPSK	4	2M0022	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.44	35	0	Left	5	0.557	0.000	1.112	0.000	0.033	0.039	16.20	0.033	0.033	
Annex A5E C04.1.9.2.02 - SAFETY LIMIT																											
Spatial Peak																											
Unmodulated/General Population																											
1.6 W/kg (mW/g)																											
averaged over 1 g mass																											

10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1b

[illegible]

Table 10-62 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dthr [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 1g SAR [W/kg]	Plot #
Body	NB Band rélé	45	QPSK	2	2M022	1:1	-0.02	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.31	1	1	Back	5	0.182	0.090	1.119	0.204	0.101	0.128	16.10	17.0	0.106		
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.04	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.30	120	122	Back	5	0.223	0.090	1.122	0.249	0.122	0.150	16.10	17.0	0.131		
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.10	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.31	1	1	Top	5	0.050	0.000	1.119	0.000	0.000	0.000	16.10	17.0	0.000		
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.15	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.31	120	122	Top	5	0.050	0.000	1.122	0.000	0.000	0.000	16.10	17.0	0.000		
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.51	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.31	1	1	Bottom	5	0.627	0.403	1.119	0.920	0.451	0.575	16.10	17.0	0.770	0.483	
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.85	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.31	120	122	Bottom	5	0.627	0.403	1.122	0.920	0.451	0.575	16.10	17.0	0.770	0.483	
Body	NB Band rélé	45	QPSK	2	2M022	1:1	-0.05	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.25	240	0	Bottom	5	1.000	0.509	1.135	1.142	0.578	0.745	16.10	17.0	0.625		
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.03	1745.00	349000	CP-OFDM	0.0	16.80	16.10	1	1	Bottom	5	0.837	0.400	1.175	0.983	0.479	0.624	16.10	17.0	0.830	0.513	
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.05	1745.00	349000	CP-OFDM	0.0	16.80	16.11	1	1	Right	5	0.015	0.000	1.122	0.017	0.000	0.000	16.10	17.0	0.010		
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.06	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.30	120	122	Right	5	0.015	0.007	1.122	0.017	0.000	0.011	16.10	17.0	0.010	0.000	
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.06	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.31	1	1	Left	5	0.000	0.000	1.119	0.000	0.000	0.000	16.10	17.0	0.000	0.000	
Body	NB Band rélé	45	QPSK	2	2M022	1:1	0.07	1745.00	349000	DFT-S-OFDM	0.0	16.80	16.30	120	122	Left	5	0.000	0.000	1.122	0.000	0.000	0.000	16.10	17.0	0.000	0.000	
ANALYSIS ONLY 1992 - SAFETY LIMIT																					Body							
Unlimited Exposure/General Population																					1.6 W/kg (mW/g)					averaged over 1 gram		

Table 10-63 Antenna 3b

Exposure	Band / Mode	Bandwidth (Hz)	Service / Modulation	Ant.	Sat. Number	Duty Cycle	Power (dB) [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 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Exposure Rate (g SAR)	Simultaneous Time-on-Power	Simultaneous Reported SAR (W/kg)	Simultaneous Exposure Rate (g SAR)	Plot #
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.04	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.20	1	1	Back	5	0.576	0.271	1.288	0.742	0.349	0.484	19.20	0.710	0.444	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.04	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.19	120	122	Back	5	0.678	0.314	1.291	0.873	0.405	0.568	19.20	0.840	0.525	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.01	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.19	120	122	Back	5	0.796	0.383	1.315	1.017	0.481	0.658	19.20	0.970	0.600	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.02	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.20	1	1	Top	5	0.509	0.341	1.288	0.913	0.439	0.571	19.20	0.880	0.550	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.02	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.19	120	122	Top	5	0.723	0.346	1.291	0.933	0.447	0.583	19.20	0.900	0.561	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.01	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.11	240	0	Top	5	0.768	0.388	1.315	1.048	0.481	0.681	19.20	0.970	0.600	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.04	1745.00	349000	CP-OFDM	0.0	19.30	18.08	1	1	Top	5	0.784	0.374	1.324	1.038	0.495	0.649	19.20	1.000	0.625	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	19.30	18.19	120	122	Top	5	0.784	0.374	1.324	1.038	0.495	0.649	19.20	1.000	0.625	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	0.83	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.19	120	122	Bottom	5	0.803	0.390	1.291	0.904	0.001	0.001	19.20	0.000	0.000	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	0.02	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.20	1	1	Right	5	0.047	0.027	1.288	0.061	0.035	0.038	19.20	0.010	0.038	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	0.02	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.20	120	122	Right	5	0.047	0.027	1.288	0.061	0.035	0.038	19.20	0.010	0.038	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	0.01	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.20	1	1	Left	5	0.011	0.006	1.288	0.014	0.008	0.009	19.20	0.010	0.006	
Body	NR Band n6e	45	QPSK	3b	FWWLL	1:1	0.01	1745.00	349000	DFT-F-OFDM	0.0	19.30	18.19	120	122	Left	5	0.010	0.008	1.291	0.012	0.008	0.008	19.20	0.010	0.006	
ANSI/IEEE C63.10-2020, SAR/LIM-1																					1.6 mW/g (mW/g)				Spatial Peak		
Uncontrolled General Population																					averaged over 10 min						

Table 10-64 Antenna 4

[illegible]

FCC ID: BCGA3462	RF EXPOSURE REPORT	Approved by: Technical Manager
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10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.75	1	214	Back	5	0.861	0.386	1.045	1.072	0.493	0.670	18.30	0.970	0.686	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.72	108	108	Back	5	0.875	0.400	1.239	1.084	0.909	0.676	18.30	0.960	0.633	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.72	1	1	Back	5	0.861	0.407	1.023	1.104	0.510	0.690	18.30	1.000	0.625	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	18.70	17.72	1	1	Back	5	0.796	0.369	1.253	0.997	0.462	0.623	18.30	0.900	0.563	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.75	1	214	Top	5	0.900	0.500	1.345	0.900	0.000	0.000	18.30	0.000	0.000	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.77	108	108	Top	5	0.001	0.005	1.239	0.012	0.006	0.008	18.30	0.010	0.006	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.75	1	214	Bottom	5	0.728	0.390	1.245	0.906	0.446	0.568	18.30	0.820	0.511	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.77	108	108	Bottom	5	0.788	0.427	1.073	0.976	0.452	0.610	18.30	0.890	0.556	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.72	216	0	Bottom	5	0.818	0.369	1.253	1.025	0.462	0.641	18.30	0.930	0.581	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.75	1	214	Right	5	0.868	0.406	1.245	0.909	0.000	0.006	18.30	0.910	0.600	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.77	108	108	Right	5	0.950	0.500	1.239	0.012	0.007	0.008	18.30	0.010	0.000	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.75	1	214	Left	5	0.583	0.304	1.245	0.554	0.010	0.014	18.30	0.050	0.011	
Body	NR Band n25	40	QPSK	10	4093C	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	18.70	17.77	108	108	Left	5	0.906	0.500	1.239	0.007	0.003	0.006	18.30	0.050	0.031	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-66 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.63	1	108	Back	5	0.540	0.271	1.167	0.630	0.316	0.394	16.60	0.530	0.331	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.65	108	0	Back	5	0.576	0.290	1.161	0.669	0.337	0.418	16.60	0.570	0.356	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.63	1	108	Top	5	0.620	0.300	1.167	0.690	0.000	0.000	16.60	0.000	0.000	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.65	108	0	Top	5	0.600	0.300	1.161	0.600	0.000	0.000	16.60	0.000	0.000	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.63	1	108	Bottom	5	0.560	0.241	1.167	1.004	0.491	0.628	16.60	0.830	0.531	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.65	108	0	Bottom	5	0.620	0.300	1.161	1.128	0.554	0.705	16.60	0.960	0.580	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.59	216	0	Bottom	5	0.592	0.465	1.178	1.121	0.548	0.701	16.60	0.950	0.594	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	17.30	16.62	1	1	Bottom	5	0.500	0.467	1.169	1.181	0.581	0.758	16.60	1.000	0.625	A23
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.09	1882.50	376500	CP-OFDM	0.0	17.30	16.65	108	0	Bottom	5	0.592	0.465	1.169	1.185	0.577	0.728	16.60	0.980	0.603	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.63	1	108	Right	5	0.555	0.267	1.167	0.564	0.000	0.000	16.60	0.000	0.000	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.65	108	0	Right	5	0.605	0.285	1.161	0.605	0.000	0.000	16.60	0.000	0.000	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.63	1	108	Left	5	0.500	0.500	1.167	0.500	0.000	0.000	16.60	0.000	0.000	
Body	NR Band n25	40	QPSK	2	GVX30	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	17.30	16.65	108	0	Left	5	0.503	0.500	1.161	0.503	0.000	0.001	16.60	0.000	0.000	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-67 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.30	1	1	Back	5	0.868	0.407	1.030	1.068	0.501	0.668	18.70	0.957	0.598	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.22	108	0	Back	5	0.867	0.402	1.225	1.062	0.492	0.664	18.70	0.952	0.595	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.17	216	0	Back	5	0.799	0.374	1.239	0.990	0.463	0.619	18.70	0.887	0.544	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.30	1	1	Top	5	0.907	0.442	1.230	1.116	0.544	0.698	18.70	1.000	0.620	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.22	108	0	Top	5	0.832	0.406	1.225	1.019	0.495	0.637	18.70	0.911	0.571	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.17	216	0	Top	5	0.863	0.406	1.239	1.044	0.506	0.653	18.70	0.935	0.586	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.02	1882.50	376500	CP-OFDM	0.0	19.10	18.18	1	1	Top	5	0.877	0.426	1.236	1.084	0.527	0.678	18.70	0.971	0.607	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.30	1	1	Bottom	5	0.826	0.403	1.230	0.907	0.004	0.004	18.70	0.006	0.006	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.22	108	0	Bottom	5	0.906	0.403	1.225	0.907	0.004	0.004	18.70	0.006	0.004	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.30	1	1	Right	5	0.955	0.493	1.230	0.968	0.038	0.043	18.70	0.061	0.038	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.27	108	0	Right	5	0.929	0.493	1.225	0.927	0.040	0.045	18.70	0.065	0.041	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.16	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.30	1	1	Left	5	0.904	0.500	1.230	0.911	0.006	0.007	18.70	0.010	0.006	
Body	NR Band n25	40	QPSK	30	N179F	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	19.10	18.22	108	0	Left	5	0.913	0.497	1.225	0.919	0.009	0.010	18.70	0.016	0.016	
ARMED CELL 1592 - SAFETY LIMIT																											
Spatial Power Density																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.36	1	50	Back	5	1.055	0.464	1.033	1.085	0.478	0.678	19.90	0.930	0.581	A14
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.36	1	50	Back	5	1.130	0.491	1.053	1.167	0.507	0.729	19.90	1.000	0.625	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	0.04	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.37	25	27	Back	5	1.070	0.470	1.000	1.102	0.485	0.689	19.90	0.940	0.588	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.35	50	0	Back	5	1.050	0.463	1.059	1.091	0.479	0.683	19.90	0.930	0.581	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	0.00	2310.00	462000	CP-OFDM	0.0	20.50	20.38	1	1	Back	5	1.110	0.483	1.028	1.441	0.497	0.713	19.90	0.980	0.613	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.36	1	50	Top	5	0.935	0.508	1.033	0.935	0.508	0.909	19.90	0.910	0.606	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.16	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.37	25	27	Top	5	0.935	0.509	1.033	0.935	0.509	0.909	19.90	0.910	0.606	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.36	1	50	Bottom	5	0.965	0.484	1.033	0.976	0.488	0.610	19.90	0.940	0.625	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.37	25	27	Bottom	5	0.934	0.496	1.030	1.003	0.470	0.677	19.90	0.860	0.538	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.35	25	27	Bottom	5	0.965	0.444	1.059	1.001	0.470	0.678	19.90	0.860	0.538	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.13	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.36	1	50	Right	5	0.956	0.505	1.033	0.958	0.505	0.938	19.90	0.900	0.601	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.37	25	27	Right	5	0.963	0.503	1.030	0.965	0.503	0.943	19.90	0.940	0.638	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.21	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.36	1	50	Left	5	0.966	0.505	1.033	0.968	0.505	0.938	19.90	0.940	0.638	
Body	NR Band n30	10	QPSK	10	YINMA	1.1	-0.11	2310.00	462000	DFT-s-OFDM	0.0	20.50	20.37	25	27	Left	5	0.966	0.505	1.030	0.947	0.505	0.929	19.90	0.940	0.638	
ANSI/IEEE C63.1 UNRE - 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 10-70 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.65	1	1	Back	5	0.908	0.720	1.274	0.647	0.287	0.404	19.00	0.540	0.338	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.66	25	14	Back	5	0.499	0.720	1.300	0.649	0.293	0.406	19.00	0.540	0.338	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.11	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.65	1	1	Top	5	0.959	0.620	1.274	0.550	0.025	0.031	19.00	0.040	0.025	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.66	25	14	Top	5	0.960	0.620	1.300	0.652	0.027	0.033	19.00	0.040	0.027	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.65	1	1	Bottom	5	0.960	0.670	1.274	1.121	0.478	0.701	19.00	0.940	0.589	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.66	25	14	Bottom	5	0.852	0.651	1.300	1.092	0.458	0.676	19.00	0.910	0.585	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.00	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.65	50	0	Bottom	5	0.895	0.705	1.300	1.172	0.481	0.733	19.00	0.980	0.613	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.03	2310.00	462000	CP-OFDM	0.0	19.70	18.68	1	1	Bottom	5	0.944	0.396	1.285	1.036	0.501	0.746	19.00	0.620	0.425	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.65	1	1	Bottom	5	0.944	0.396	1.285	1.036	0.501	0.746	19.00	0.620	0.425	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.00	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.66	25	14	Right	5	0.514	0.250	1.300	0.668	0.332	0.418	19.00	0.560	0.350	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.65	1	1	Left	5	0.908	0.690	1.274	0.910	0.006	0.006	19.00	0.010	0.006	
Body	NR Band n30	10	QPSK	2	HGCHW	1.1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	19.70	18.66	25	14	Left	5	0.912	0.607	1.300	0.916	0.006	0.010	19.00	0.010	0.006	
ANSI/IEEE C63.1 UNRE - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-71 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.05	1	10	Back	5	0.689	0.303	1.303	0.898	0.395	0.561	18.00	0.844	0.528	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.10	25	0	Back	5	0.826	0.303	1.288	1.064	0.468	0.665	18.00	1.000	0.625	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.04	50	0	Back	5	0.658	0.294	1.306	0.877	0.384	0.536	18.00	0.806	0.504	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.10	2310.00	462000	CP-OFDM	0.0	18.20	17.03	1	1	Back	5	0.639	0.280	1.309	0.823	0.367	0.514	18.00	0.774	0.486	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.09	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.05	1	10	Top	5	0.477	0.242	1.303	0.622	0.315	0.389	18.00	0.585	0.366	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.10	25	0	Top	5	0.561	0.270	1.288	0.773	0.348	0.462	18.00	0.680	0.425	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.05	1	10	Bottom	5	0.603	0.300	1.303	0.604	0.000	0.003	18.00	0.004	0.003	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.10	25	0	Bottom	5	0.603	0.300	1.288	0.604	0.003	0.003	18.00	0.004	0.003	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.05	1	10	Right	5	0.605	0.301	1.303	0.606	0.007	0.009	18.00	0.043	0.027	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.09	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.10	25	0	Right	5	0.560	0.302	1.288	0.952	0.028	0.033	18.00	0.049	0.031	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.05	1	10	Left	5	0.607	0.300	1.303	0.606	0.006	0.006	18.00	0.005	0.005	
Body	NR Band n30	10	QPSK	30	HGCHW	1.1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	18.20	17.05	25	0	Left	5	0.601	0.297	1.288	0.599	0.009	0.020	18.00	0.044	0.020	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																				Body							
Uncontrolled Exposure/General Population																				0.5 W/kg (any)							
																				averaged over 10 gram							

10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1b

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 n7	50	QPSK	10	H437H	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	1	1	Back	5	0.804	0.328	1.245	1.001	0.408	0.626	19.90	0.890	0.556	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	1	135	Back	5	0.827	0.345	1.261	1.009	0.426	0.656	19.90	0.940	0.588	
Body	NR Band n7	50	QPSK	10	H437H	1:2	-0.10	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	270	0	Back	5	0.759	0.288	1.256	0.927	0.374	0.579	19.90	0.830	0.510	
Body	NR Band n7	50	QPSK	10	H437H	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	1	1	Top	5	0.900	0.360	1.245	1.000	0.400	0.620	19.90	0.900	0.560	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	135	135	Top	5	0.800	0.300	1.253	1.000	0.400	0.600	19.90	0.900	0.560	
Body	NR Band n7	50	QPSK	10	H437H	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	1	1	Bottom	5	0.801	0.310	1.245	1.009	0.413	0.662	19.90	0.950	0.594	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.32	135	135	Bottom	5	0.886	0.346	1.253	1.113	0.434	0.699	19.90	0.990	0.639	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.31	270	0	Bottom	5	0.795	0.314	1.256	0.999	0.394	0.624	19.90	0.890	0.564	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.03	2535.00	507000	CP-OFDM	0.0	20.30	19.07	1	1	Bottom	5	0.843	0.327	1.327	1.119	0.434	0.699	19.90	1.000	0.625	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	1	1	Right	5	0.826	0.324	1.245	1.001	0.414	0.634	19.90	0.900	0.560	
Body	NR Band n7	50	QPSK	10	H437H	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.32	135	135	Right	5	0.880	0.344	1.253	1.038	0.416	0.624	19.90	0.930	0.610	
Body	NR Band n7	50	QPSK	10	H437H	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.35	1	1	Left	5	0.849	0.321	1.245	1.050	0.426	0.631	19.90	0.940	0.621	
Body	NR Band n7	50	QPSK	10	H437H	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	20.30	19.32	135	135	Left	5	0.861	0.322	1.253	1.053	0.428	0.631	19.90	0.950	0.631	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT																Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram	

Table 10-74 Antenna 2

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 n7	50	QPSK	2	9600K	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.06	1	135	Back	5	0.675	0.262	1.109	0.782	0.304	0.489	18.00	0.690	0.412	
Body	NR Band n7	50	QPSK	2	9600K	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.13	135	0	Back	5	0.675	0.262	1.140	0.770	0.299	0.481	18.00	0.649	0.406	
Body	NR Band n7	50	QPSK	2	9600K	1:1	-0.10	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.06	1	135	Top	5	0.621	0.250	1.109	0.693	0.266	0.426	18.00	0.621	0.383	
Body	NR Band n7	50	QPSK	2	9600K	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.13	135	0	Top	5	0.611	0.260	1.140	0.913	0.007	0.608	18.00	0.011	0.007	
Body	NR Band n7	50	QPSK	2	9600K	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.06	1	135	Bottom	5	0.648	0.272	1.109	1.059	0.432	0.687	18.00	0.926	0.570	
Body	NR Band n7	50	QPSK	2	9600K	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.13	135	0	Bottom	5	0.600	0.288	1.151	0.854	0.119	0.600	18.00	0.970	0.600	
Body	NR Band n7	50	QPSK	2	9600K	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.06	270	0	Bottom	5	0.593	0.278	1.106	0.439	0.091	0.580	18.00	0.932	0.583	
Body	NR Band n7	50	QPSK	2	9600K	1:1	-0.00	2535.00	507000	CP-OFDM	0.0	18.70	18.04	1	1	Bottom	5	0.640	0.260	1.094	0.880	0.469	0.742	18.00	1.000	0.625	
Body	NR Band n7	50	QPSK	2	9600K	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.06	1	135	Right	5	0.596	0.254	1.109	0.853	0.294	0.596	18.00	0.933	0.583	
Body	NR Band n7	50	QPSK	2	9600K	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.13	135	0	Right	5	0.558	0.258	1.140	0.636	0.294	0.598	18.00	0.936	0.585	
Body	NR Band n7	50	QPSK	2	9600K	1:1	-0.15	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.06	1	135	Left	5	0.605	0.260	1.109	0.903	0.003	0.604	18.00	0.906	0.560	
Body	NR Band n7	50	QPSK	2	9600K	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	18.70	18.13	135	0	Left	5	0.608	0.260	1.140	0.909	0.003	0.606	18.00	0.909	0.560	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT																Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram	

Table 10-75 Antenna 3b

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 n7	50	QPSK	30	H40GH	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.75	1	1	Back	5	0.887	0.409	1.135	1.120	0.464	0.700	18.60	0.940	0.588	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.00	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.68	135	0	Back	5	0.880	0.360	1.153	1.015	0.410	0.634	18.60	0.900	0.531	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.62	270	0	Back	5	0.778	0.322	1.169	0.909	0.376	0.568	18.60	0.780	0.475	A21
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.00	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.75	1	1	Top	5	0.900	0.411	1.135	1.050	0.466	0.745	18.60	1.000	0.625	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.68	135	0	Top	5	0.852	0.356	1.153	0.962	0.410	0.614	18.60	0.820	0.513	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.62	270	0	Top	5	0.847	0.351	1.169	0.990	0.410	0.619	18.60	0.830	0.519	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.04	2535.00	507000	CP-OFDM	0.0	19.30	18.61	1	1	Top	5	0.942	0.377	1.172	1.104	0.440	0.690	18.60	0.930	0.581	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.75	1	135	Bottom	5	0.860	0.380	1.135	1.000	0.400	0.600	18.60	0.900	0.560	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.68	135	0	Bottom	5	0.800	0.360	1.153	0.900	0.400	0.600	18.60	0.800	0.500	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.17	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.75	1	1	Right	5	0.867	0.320	1.135	0.929	0.328	0.593	18.60	0.940	0.610	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	0.10	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.68	135	0	Right	5	0.949	0.404	1.153	0.956	0.400	0.605	18.60	0.950	0.601	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.75	1	1	Left	5	0.921	0.400	1.135	0.924	0.411	0.615	18.60	0.920	0.613	
Body	NR Band n7	50	QPSK	30	H40GH	1:1	-0.15	2535.00	507000	DFT-s-OFDM	0.0	19.30	18.68	135	0	Left	5	0.920	0.400	1.153	0.923	0.404	0.614	18.60	0.920	0.613	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT																Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram	

Table 10-76 Antenna 4

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 n7	50	QPSK	4	H437H	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.07	1	135	Back	5	0.746	0.381	1.183	0.883	0.453	0.552	19.40	0.800	0.500	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.05	135	0	Back	5	0.770	0.386	1.189	0.916	0.459	0.573	19.40	0.830	0.519	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.07	270	0	Back	5	0.801	0.405	1.225	0.981	0.496	0.613	19.40	0.800	0.506	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.02	2535.00	507000	CP-OFDM	0.0	19.80	19.06	1	135	Back	5	0.762	0.384	1.213	1.005	0.468	0.588	19.40	0.830	0.525	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.02	2535.00	507000	OFDM	0.0	19.80	19.07	1	135	Top	5	0.388	0.147	1.183	0.459	0.174	0.287	19.40	0.420	0.263	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.05	135	0	Top	5	0.759	0.440	1.189	0.451	0.174	0.282	19.40	0.430	0.258	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	19.80	19.06	135	0	Bottom	5	0.759	0.440	1.189	0.451	0.174	0.282	19.40	0.430	0.258	
Body	NR Band n7	50	QPSK	4	H437H	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.08	135	0	Bottom	5	0.820	0.400	1.189	0.024	0.012	0.015	19.40	0.430	0.010	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	19.80	19.07	135	0	Right	5	0.759	0.440	1.189	0.451	0.174	0.282	19.40	0.430	0.258	
Body	NR Band n7	50	QPSK	4	H437H	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.05	135	0	Right	5	0.800	0.400	1.189	0.000	0.000	0.000	19.40	0.430	0.000	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.07	1	135	Left	5	0.468	0.238	1.183	0.589	0.282	0.360	19.40	0.430	0.331	
Body	NR Band n7	50	QPSK	4	H437H	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	19.80	19.05	135	0	Left	5	0.498	0.238	1.189	0.589	0.282	0.360	19.40	0.430	0.338	
ARW/BER CH1 CH2 - SAFETY LIMIT																		Body									
Uncontrolled Exposure/General Population																		1.6 W/kg averaged over 1g of mass									

10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1b

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 n41	100	QPSK	10	YUIC4	1.1	-0.02	2502.99	518098	DFT-s-OFDM	0.0	18.30	18.25	1	137	Back	5	0.716	0.283	1.002	0.725	0.286	0.453	19.20	0.707	0.442	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	18.30	18.21	1	137	Back	5	0.708	0.310	1.009	0.705	0.312	0.461	19.20	0.735	0.466	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.02	2502.99	518098	DFT-s-OFDM	0.0	18.30	18.23	270	0	Back	5	0.800	0.321	1.006	0.823	0.326	0.514	19.20	0.802	0.500	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	0.06	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.25	1	137	Top	5	0.000	0.000	1.013	0.000	0.000	0.000	19.20	0.000	0.000	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.25	135	138	Top	5	0.000	0.000	1.000	0.000	0.000	0.000	19.20	0.000	0.000	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.04	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.25	1	137	Bottom	5	0.984	0.313	1.012	0.854	0.317	0.534	19.20	0.832	0.520	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.03	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.26	135	138	Bottom	5	0.964	0.282	1.009	0.973	0.285	0.468	19.20	0.948	0.595	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.23	1	137	Bottom	5	0.000	0.000	1.006	0.000	0.000	0.000	19.20	0.000	0.000	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.03	2502.99	518098	CP-OFDM	0.0	18.30	18.36	1	1	Bottom	5	0.904	0.357	1.081	0.977	0.386	0.611	19.20	0.952	0.595	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.25	1	137	Right	5	0.004	0.006	1.012	0.004	0.006	0.009	19.20	0.014	0.009	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.17	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.26	135	138	Right	5	0.008	0.009	1.009	0.018	0.011	0.019	19.20	0.018	0.011	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.14	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.25	1	137	Left	5	0.008	0.010	1.012	0.008	0.010	0.013	19.20	0.015	0.010	
Body	NR Band n41	100	QPSK	10	YUIC4	1.1	-0.10	2502.99	518098	DFT-s-OFDM	0.0	18.30	19.26	135	138	Left	5	0.008	0.010	1.009	0.008	0.010	0.013	19.20	0.015	0.010	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-78 Antenna 2

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 n41	100	QPSK	2	NR0004	1.1	-0.03	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.05	1	137	Back	5	0.708	0.301	1.161	0.926	0.349	0.179	19.00	0.777	0.486	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	0.02	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.07	135	138	Back	5	0.820	0.365	1.156	0.948	0.422	0.193	19.00	0.795	0.497	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.01	270	0	Back	5	0.841	0.375	1.169	0.983	0.438	0.614	19.00	0.825	0.516	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	0.09	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.06	135	137	Top	5	0.003	0.007	1.061	0.009	0.008	0.012	19.00	0.016	0.010	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	0.15	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.07	135	138	Top	5	0.009	0.011	1.156	0.022	0.013	0.014	19.00	0.018	0.011	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.06	1	137	Bottom	5	0.972	0.380	1.161	1.128	0.441	0.705	19.00	0.946	0.591	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.07	135	138	Bottom	5	0.954	0.376	1.106	0.935	0.439	0.189	0.925	0.578		
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.02	270	0	Bottom	5	0.1200	0.440	1.102	1.102	0.475	0.705	19.00	1.000	0.625	A26
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.01	2502.99	518098	CP-OFDM	0.0	19.70	18.97	1	1	Bottom	5	0.962	0.384	1.083	1.138	0.454	0.711	19.00	0.955	0.597	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	0.02	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.05	1	137	Right	5	0.880	0.401	1.031	1.035	0.466	0.648	19.00	0.867	0.542	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.06	135	138	Right	5	0.000	0.000	1.000	0.000	0.000	0.000	19.00	0.000	0.000	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.02	270	0	Right	5	0.900	0.400	1.099	1.058	0.468	0.661	19.00	0.888	0.550	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	0.04	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.05	1	137	Left	5	0.003	0.003	1.051	0.003	0.003	0.003	19.00	0.003	0.003	
Body	NR Band n41	100	QPSK	2	NR0004	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	19.70	19.07	135	138	Left	5	0.000	0.001	1.106	0.000	0.001	0.004	19.00	0.005	0.001	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-79 Antenna 3b

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 n41	100	QPSK	30	YUIC4	1.1	-0.07	2502.99	518098	DFT-s-OFDM	0.0	19.50	19.03	1	137	Back	0	0.706	0.284	1.114	0.786	0.316	0.491	18.80	0.660	0.413	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.98	135	138	Back	0	0.718	0.299	1.127	0.814	0.317	0.514	18.80	0.720	0.450	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.11	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.70	270	0	Back	0	0.712	0.284	1.002	0.880	0.310	0.500	18.80	0.740	0.461	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.02	2502.99	518098	DFT-s-OFDM	0.0	19.50	19.03	1	137	Top	0	0.964	0.380	1.114	0.905	0.423	0.466	18.80	0.890	0.556	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.02	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.98	135	138	Top	0	0.968	0.382	1.107	0.909	0.431	0.481	18.80	0.910	0.569	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.02	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.70	270	0	Top	0	0.992	0.384	1.002	1.102	0.474	0.745	18.80	0.000	0.625	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	0.01	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.79	1	1	Top	0	0.932	0.371	1.178	1.098	0.437	0.686	18.80	0.920	0.578	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.50	19.03	1	137	Bottom	0	0.924	0.400	1.114	0.904	0.460	0.601	18.80	0.900	0.560	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.01	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.98	135	138	Bottom	0	0.902	0.400	1.127	0.902	0.460	0.601	18.80	0.900	0.560	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	0.04	2502.99	518098	DFT-s-OFDM	0.0	19.50	19.03	1	137	Right	0	0.943	0.403	1.114	0.948	0.425	0.609	18.80	0.940	0.601	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.00	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.98	135	138	Right	0	0.942	0.402	1.127	0.947	0.425	0.609	18.80	0.940	0.601	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	-0.08	2502.99	518098	DFT-s-OFDM	0.0	19.50	19.03	1	137	Left	0	0.006	0.004	1.114	0.008	0.016	0.018	18.80	0.020	0.013	
Body	NR Band n41	100	QPSK	30	YUIC4	1.1	0.02	2502.99	518098	DFT-s-OFDM	0.0	19.50	18.98	135	138	Left	0	0.000	0.000	1.127	0.001	0.011	0.013	18.80	0.020	0.013	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body									
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)									
Spatial Peak																		averaged over 1 gram									

Table 10-80 Antenna 4

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 n41	100	QPSK	4	13946	1:1	-0.05	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	1	137	Back	S	0.428	0.220	1.140	0.716	0.268	0.48	15.50	0.60	0.376	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.00	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	135	138	Back	S	0.599	0.226	1.146	0.686	0.28	0.29	0.449	15.50	0.575	0.309
Body	NR Band n41	100	QPSK	4	13946	1:1	-0.01	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.52	270	0	Back	S	0.780	0.292	1.169	0.912	0.341	0.574	15.50	0.75	0.478	
Body	NR Band n41	100	QPSK	4	13946	1:1	-0.02	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	1	137	Top	S	0.833	0.300	1.140	0.950	0.348	0.836	15.50	0.797	0.449	
Body	NR Band n41	100	QPSK	4	13946	1:1	-0.02	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	135	138	Top	S	0.833	0.300	1.140	0.940	0.340	0.840	15.50	0.788	0.441	
Body	NR Band n41	100	QPSK	4	13946	1:1	-0.02	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.52	270	0	Top	S	0.833	0.297	1.146	0.929	0.340	0.830	15.50	0.788	0.441	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.01	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.52	270	0	Top	S	0.900	0.372	1.169	1.192	0.435	1.165	15.50	1.00	0.625	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.01	2192.99	518508	CZ-OFDM	0.0	10.20	18.52	1	137	Bottom	S	0.983	0.364	1.175	1.154	0.428	0.721	15.50	0.988	0.605	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.11	2192.99	518508	CZ-OFDM	0.0	10.20	18.52	1	137	Bottom	S	0.983	0.364	1.175	1.154	0.428	0.721	15.50	0.988	0.605	
Body	NR Band n41	100	QPSK	4	13946	1:1	-0.11	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	135	138	Bottom	S	0.913	0.077	1.146	0.018	0.008	0.009	15.50	0.011	0.001	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.02	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	135	137	Right	S	0.005	0.001	1.140	0.006	0.003	0.004	15.50	0.003	0.003	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.00	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.66	135	138	Right	S	0.005	0.001	1.140	0.006	0.003	0.004	15.50	0.003	0.003	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.00	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	1	137	Left	S	0.001	0.298	1.140	0.719	0.340	0.449	15.50	0.608	0.376	
Body	NR Band n41	100	QPSK	4	13946	1:1	-0.02	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.63	135	138	Left	S	0.528	0.248	1.146	0.605	0.264	0.178	15.50	0.520	0.318	
Body	NR Band n41	100	QPSK	4	13946	1:1	0.02	2192.99	518508	DFT-F-OFDM	0.0	10.20	18.52	270	0	Left	S	0.540	0.243	1.169	0.637	0.307	0.334	15.50	0.520	0.311	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body									
Uncontrolled Exposure (General Population)																		5.0 W/kg (mW/g)									
																		accepted over 1.0 min									

10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.08	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.15	1	104	Back	5	0.583	0.241	1.216	0.709	0.293	0.443	20.30	0.600	0.375
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	21.00	18.26	1	1	Back	5	0.590	0.244	1.245	0.725	0.304	0.459	20.30	0.520	0.388
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.00	3679.98	645332	DFT-s-OFDM	0.0	21.00	18.12	1	104	Back	5	0.595	0.238	1.243	0.643	0.289	0.589	20.30	0.730	0.494
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.06	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.13	50	28	Back	5	0.655	0.259	1.222	0.800	0.316	0.500	20.30	0.670	0.419
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.01	50	28	Back	5	0.651	0.266	1.256	0.820	0.334	0.511	20.30	0.600	0.411
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	0.06	3679.98	645332	DFT-s-OFDM	0.0	21.00	19.94	50	28	Back	5	0.738	0.291	1.279	0.934	0.380	0.684	20.30	0.790	0.496
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	21.00	19.40	100	0	Back	5	0.545	0.237	1.230	0.670	0.292	0.419	18.00	0.540	0.350
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.15	1	104	Top	5	0.621	0.256	1.216	0.714	0.199	0.404	20.30	0.500	0.317
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	0.04	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.13	50	28	Top	5	0.604	0.266	1.222	0.620	0.007	0.013	20.30	0.020	0.013
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.13	50	28	Bottom	5	0.270	0.105	1.222	0.310	0.130	0.206	20.30	0.280	0.175
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	0.09	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.15	1	104	Right	5	0.680	0.260	1.216	0.600	0.000	0.000	20.30	0.000	0.000
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.13	50	28	Right	5	0.601	0.260	1.222	0.600	0.000	0.000	20.30	0.000	0.000
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.11	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.15	1	104	Left	5	0.788	0.289	1.216	0.922	0.309	0.526	20.30	0.780	0.488
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.16	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.05	1	1	Left	5	0.613	0.247	1.245	0.763	0.308	0.477	20.30	0.640	0.400
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.05	3679.98	645332	DFT-s-OFDM	0.0	21.00	19.17	1	104	Left	5	0.794	0.286	1.243	0.999	0.384	0.624	20.30	0.840	0.525
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	21.00	20.13	50	28	Left	5	0.612	0.313	1.222	0.992	0.382	0.620	20.30	0.840	0.525
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	0.00	3624.99	641666	DFT-s-OFDM	0.0	21.00	20.01	50	28	Left	5	0.651	0.334	1.256	1.000	0.399	0.638	20.30	0.860	0.538
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	21.00	19.95	50	28	Left	5	0.659	0.355	1.278	1.088	0.454	0.744	20.30	1.000	0.625
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	0.01	3570.00	638000	DFT-s-OFDM	0.5	20.50	19.60	100	0	Left	5	0.761	0.275	1.230	0.862	0.338	0.539	18.00	0.730	0.456
Body	NR Band n48	40	QPSK	1a	ES0NCW	1.1	-0.01	3570.00	638000	CP-OFDM	1.0	20.00	19.25	1	1	Left	5	0.697	0.273	1.204	0.662	0.326	0.520	18.00	0.700	0.438
ANSI/IEEE C63.1992 - SAFETY LIMIT																		Body						1.6 W/kg (mW/g) averaged over 1 gram		
Spatial Peak																										
Uncontrolled Exposure/General Population																										

Table 10-82 Antenna 2

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 n48	40	QPSK	2	34C7C	1.1	0.04	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.40	1	104	Back	5	0.623	0.273	1.202	0.746	0.328	0.466		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.00	3624.99	641666	DFT-s-OFDM	0.0	17.20	16.16	1	1	Back	5	0.669	0.291	1.216	0.744	0.354	0.509		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.01	3679.98	645332	DFT-s-OFDM	0.0	17.20	16.17	1	104	Back	5	0.621	0.260	1.268	0.787	0.330	0.492		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.41	50	28	Back	5	0.652	0.286	1.199	0.782	0.343	0.489		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.02	3624.99	641666	DFT-s-OFDM	0.0	17.20	16.28	50	28	Back	5	0.672	0.289	1.213	0.829	0.356	0.518		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	17.20	16.18	50	28	Back	5	0.648	0.272	1.260	0.820	0.344	0.513		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	-0.01	3570.00	638000	DFT-s-OFDM	1.0	16.20	15.50	100	0	Back	5	0.455	0.197	1.175	0.535	0.231	0.334		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.21	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.40	1	104	Top	5	0.611	0.005	1.202	0.013	0.006	0.008		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.41	50	28	Top	5	0.600	0.000	1.202	0.000	0.000	0.000		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.40	1	104	Bottom	5	0.368	0.132	1.202	0.442	0.159	0.276		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.01	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.41	50	28	Bottom	5	0.362	0.130	1.199	0.434	0.156	0.271		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.00	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.40	1	104	Right	5	0.672	0.276	1.202	0.808	0.322	0.505		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.02	3624.99	641666	DFT-s-OFDM	0.0	17.20	16.28	50	28	Right	5	0.782	0.300	1.216	0.820	0.357	0.579		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.00	3679.98	645332	DFT-s-OFDM	0.0	17.20	16.17	1	104	Right	5	0.608	0.247	1.268	0.771	0.313	0.482		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.01	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.41	50	28	Right	5	0.667	0.275	1.199	0.800	0.330	0.500		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	17.20	16.28	50	28	Right	5	0.711	0.260	1.233	0.879	0.358	0.549		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	17.20	16.18	50	28	Right	5	0.599	0.246	1.265	0.758	0.311	0.474		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.00	3570.00	638000	DFT-s-OFDM	1.0	16.20	15.50	100	0	Right	5	0.456	0.186	1.175	0.538	0.219	0.336		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.05	3624.99	641666	CP-OFDM	1.5	15.70	15.04	1	1	Right	5	0.411	0.166	1.164	0.478	0.193	0.299		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.04	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.40	1	104	Left	5	0.604	0.000	1.202	0.000	0.000	0.000		
Body	NR Band n48	40	QPSK	2	34C7C	1.1	0.06	3570.00	638000	DFT-s-OFDM	0.0	17.20	16.41	50	28	Left	5	0.005	0.001	1.199	0.000	0.001	0.004		
ANSI/IEEE C63.1992 - SAFETY LIMIT																		Body						1.6 W/kg (mW/g) averaged over 1 gram	
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-83 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [EIRP]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.08	3570.00	638000	DFT-s-OFDM	0.0	19.10	18.43	1	104	Back	5	0.671	0.276	1.167	0.783	0.322	0.489	18.40	0.640	0.413
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.08	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.47	50	28	Back	5	0.671	0.276	1.167	0.807	0.322	0.493	18.40	0.640	0.421
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3570.00	645332	DFT-s-OFDM	0.0	19.10	18.43	1	104	Back	5	0.657	0.261	1.167	0.740	0.301	0.463	18.40	0.630	0.385
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.01	3570.00	638000	DFT-s-OFDM	0.0	19.10	18.43	50	28	Back	5	0.663	0.267	1.169	0.762	0.319	0.476	18.40	0.640	0.400
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.47	50	28	Back	5	0.677	0.271	1.172	0.776	0.318	0.486	18.40	0.650	0.400
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	19.10	18.46	50	28	Back	5	0.625	0.254	1.242	0.776	0.315	0.485	18.40	0.650	0.400
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.08	3570.00	638000	DFT-s-OFDM	1.0	18.10	17.42	100	0	Back	5	0.436	0.202	1.189	0.536	0.226	0.388	17.40	0.570	0.294
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.06	3624.99	641666	DFT-s-OFDM	1.0	18.10	17.46	100	0	Back	5	0.436	0.202	1.189	0.536	0.226	0.388	17.40	0.570	0.294
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	18.10	18.47	50	28	Top	5	0.277	0.049	1.536	0.325	0.121	0.200	18.40	0.270	0.649
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	18.10	18.47	50	28	Bottom	5	0.277	0.049	1.536	0.325	0.121	0.200	18.40	0.270	0.649
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.04	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.47	50	28	Bottom	5	0.626	0.260	1.156	0.609	0.009	0.006	18.40	0.000	0.000
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.04	3624.99	638000	DFT-s-OFDM	0.0	19.10	18.43	1	104	Right	5	0.543	0.305	1.167	1.100	0.426	0.608	18.40	0.920	0.575
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.46	50	28	Right	5	0.543	0.305	1.167	1.100	0.426	0.608	18.40	0.920	0.575
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.01	3679.98	645332	DFT-s-OFDM	0.0	19.10	18.24	1	104	Right	5	0.628	0.326	1.219	1.009	0.397	0.631	18.40	1.000	0.521
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.24	1	104	Right	5	0.628	0.326	1.219	1.009	0.397	0.631	18.40	1.000	0.521
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.00	3570.00	638000	DFT-s-OFDM	0.0	19.10	18.42	50	28	Right	5	0.500	0.381	1.552	0.485	0.745	1.40	1.000	0.625	A17
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.00	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.47	50	28	Right	5	0.585	0.331	1.526	1.023	0.470	0.819	18.40	1.000	0.538
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.00	3624.99	645332	DFT-s-OFDM	0.0	19.10	18.47	50	28	Right	5	0.585	0.331	1.526	1.023	0.470	0.819	18.40	1.000	0.538
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.00	3570.00	638000	DFT-s-OFDM	1.0	18.10	17.42	100	0	Right	5	0.791	0.268	1.699	0.819	0.321	0.612	17.40	0.690	0.411
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.00	3624.99	641666	CP-OFDM	1.5	17.00	16.98	1	1	Right	5	0.658	0.247	1.513	0.736	0.280	0.460	16.90	0.820	0.388
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	0.00	3624.99	641666	CP-OFDM	1.5	19.10	18.98	1	1	Right	5	0.658	0.247	1.513	0.736	0.280	0.460	18.90	0.820	0.388
Body	NR Band n48	40	QPSK	3a	X00L4	1.1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	19.10	18.47	50	28	Left	5	0.000	0.000	1.536	0.000	0.000	0.000	18.40	0.000	0.000
Detailed SAR Data Table (100 rows total, showing variability across different exposure scenarios and test positions)																										
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10.28 NR Band n77 DoD Standalone SAR

Table 10-85 Antenna 1a

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	1a	H473H	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	21.00	20.65	1	137	Back	5	0.719	0.363	1.084	0.779	0.326	0.487	20.70	0.727	0.454	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	21.00	20.72	135	0	Back	5	0.711	0.360	1.067	0.759	0.320	0.474	20.70	0.708	0.443	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	21.00	20.60	270	0	Back	5	0.705	0.353	1.069	0.860	0.365	0.538	20.70	0.802	0.501	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.04	3500.01	633334	OFDM-OFDM	0.0	21.00	20.85	1	137	Top	5	0.622	0.308	1.084	0.524	0.209	0.315	20.70	0.522	0.314	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	21.00	20.72	135	0	Top	5	0.659	0.314	1.067	0.642	0.315	0.426	20.70	0.639	0.424	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	21.00	20.85	1	137	Bottom	5	0.627	0.310	1.084	0.365	0.151	0.218	20.70	0.340	0.211	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.06	3500.01	633334	OFDM-OFDM	0.0	21.00	20.72	135	0	Bottom	5	0.565	0.302	1.067	0.389	0.160	0.243	20.70	0.363	0.227	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.03	3500.01	633334	OFDM-OFDM	0.0	21.00	20.65	1	137	Right	5	0.602	0.300	1.084	0.502	0.200	0.301	20.70	0.502	0.301	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.06	3500.01	633334	OFDM-OFDM	0.0	21.00	20.72	135	0	Right	5	0.600	0.300	1.067	0.600	0.300	0.900	20.70	0.600	0.600	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.08	3500.01	633334	OFDM-OFDM	0.0	21.00	20.65	1	137	Left	5	0.602	0.308	1.084	1.032	0.399	0.445	20.70	0.963	0.602	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	21.00	20.72	135	0	Left	5	0.609	0.373	1.067	1.023	0.398	0.639	20.70	0.914	0.596	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	21.00	20.60	270	0	Left	5	0.678	0.374	1.096	1.072	0.410	0.670	20.70	1.000	0.625	
Body	NR Band n77 DoD	100	QPSK	1a	H473H	1:1	-0.03	3500.01	633334	CP-OFDM	0.0	21.00	20.76	1	1	Left	5	0.659	0.336	1.057	0.908	0.355	0.539	20.70	0.847	0.529	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																					Body						
Spatial Peak																					1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																					averaged over 1 gram						

Table 10-86 Antenna 2

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	2	2M022	1:1	-0.04	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	1	137	Back	5	0.289	0.349	1.148	0.306	0.401	0.566	18.40	0.844	0.528	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	18.70	18.17	135	0	Back	5	0.481	0.371	1.091	0.609	0.405	0.568	18.40	0.846	0.529	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.09	3500.01	633334	OFDM-OFDM	0.0	18.70	18.05	270	0	Back	5	0.503	0.362	1.161	1.002	0.420	0.626	18.40	0.933	0.583	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	1	137	Top	5	0.404	0.401	1.148	0.524	0.515	0.615	18.40	0.722	0.514	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	135	0	Top	5	0.405	0.401	1.091	0.627	0.514	0.617	18.40	0.725	0.514	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	1	137	Bottom	5	0.524	0.354	1.148	0.636	0.234	0.398	18.40	0.582	0.370	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	135	0	Bottom	5	0.482	0.354	1.148	0.626	0.354	0.444	18.40	0.662	0.414	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	1	137	Right	5	0.562	0.373	1.148	1.047	0.428	0.624	18.40	0.975	0.620	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.70	18.12	135	0	Right	5	0.582	0.400	1.091	1.071	0.436	0.669	18.40	0.997	0.623	A18
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.70	18.15	270	0	Right	5	0.471	0.354	1.148	0.408	0.314	0.408	18.40	0.344	0.180	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.09	3500.01	633334	CP-OFDM	0.0	18.70	18.18	1	1	Right	5	0.671	0.401	1.102	1.074	0.442	0.671	18.40	1.000	0.625	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.70	18.10	1	137	Left	5	0.406	0.400	1.148	0.607	0.503	0.604	18.40	0.707	0.504	
Body	NR Band n77 DoD	100	QPSK	2	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.70	18.17	135	0	Left	5	0.408	0.401	1.091	0.609	0.503	0.606	18.40	0.708	0.505	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																					Body						
Spatial Peak																					1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																					averaged over 1 gram						

Table 10-87 Antenna 3a

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	3a	2M022	1:1	-0.02	3500.01	633334	OFDM-OFDM	0.0	18.20	17.05	1	137	Back	5	0.371	0.240	1.161	0.663	0.284	0.414	17.40	0.575	0.359		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.07	3500.01	633334	OFDM-OFDM	0.0	18.20	17.50	135	0	Back	5	0.627	0.269	1.175	0.777	0.316	0.461	17.40	0.640	0.400		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.09	3500.01	633334	OFDM-OFDM	0.0	18.20	17.05	1	137	Top	5	0.384	0.147	1.161	0.446	0.171	0.279	17.40	0.187	0.142		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.00	3500.01	633334	OFDM-OFDM	0.0	18.20	17.10	135	0	Top	5	0.545	0.201	1.175	0.640	0.236	0.400	17.40	0.555	0.347		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.12	3500.01	633334	OFDM-OFDM	0.0	18.20	17.05	1	137	Bottom	5	0.608	0.094	1.161	0.612	0.005	0.008	17.40	0.510	0.308		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.07	3500.01	633334	OFDM-OFDM	0.0	18.20	17.50	135	0	Bottom	5	0.609	0.104	1.175	0.611	0.005	0.007	17.40	0.010	0.006		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.09	3500.01	633334	OFDM-OFDM	0.0	18.20	17.55	1	137	Right	5	0.823	0.122	1.175	0.954	0.374	0.596	17.40	0.838	0.518		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.01	3500.01	633334	OFDM-OFDM	0.0	18.20	17.10	135	0	Right	5	0.780	0.181	1.175	1.122	0.448	0.720	17.40	1.000	0.625		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.19	3500.01	633334	OFDM-OFDM	0.0	18.20	17.46	270	0	Right	5	0.810	0.182	1.186	0.961	0.394	0.601	17.40	0.834	0.521		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.01	3500.01	633334	CP-OFDM	0.0	18.20	17.45	1	1	Right	5	0.944	0.388	1.189	1.122	0.463	0.701	17.40	0.974	0.620		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.07	3500.01	633334	OFDM-OFDM	0.0	18.20	17.15	1	137	Left	5	0.602	0.100	1.161	0.600	0.000	0.001	17.40	0.002	0.001		
Body	NR Band n77 DoD	100	QPSK	3a	2M022	1:1	-0.03	3500.01	633334	OFDM-OFDM	0.0	18.20	17.10	135	0	Left	5	0.606	0.100	1.148	0.607	0.001	0.004	17.40	0.607	0.006		
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																					Body							
Uncontrolled Exposure/General Population																					Spatial Peak				1.6 W/kg (mW/g)			
																					stored over 1 g mass							

10.29 NR Band n77 Standalone SAR

Table 10-89 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	1	137	Back	5	0.535	0.218	1.312	0.702	0.286	0.439	20.30	0.588	0.368	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	135	0	Back	5	0.506	0.240	1.282	0.777	0.308	0.486	20.30	0.551	0.407	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	1	137	Top	5	0.504	0.240	1.282	0.777	0.308	0.486	20.30	0.551	0.407	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.18	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	135	0	Top	5	0.504	0.241	1.282	0.744	0.015	0.028	20.30	0.037	0.033	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	1	137	Bottom	5	0.576	0.309	1.312	0.962	0.143	0.226	20.30	0.303	0.189	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	135	0	Bottom	5	0.581	0.313	1.383	0.984	0.143	0.226	20.30	0.303	0.189	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	1	137	Right	5	0.500	0.000	1.317	0.600	0.000	0.000	20.30	0.000	0.000	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	135	0	Right	5	0.500	0.000	1.282	0.600	0.000	0.200	20.30	0.000	0.000	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	1	137	Left	5	0.581	0.312	1.312	1.000	0.409	0.681	20.30	0.513	0.321	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	135	0	Left	5	0.581	0.313	1.282	1.129	0.427	0.706	20.30	0.446	0.591	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	21.00	19.82	270	0	Left	5	0.576	0.309	1.318	1.135	0.430	0.722	20.30	0.567	0.404	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.00	3750.00	650000	CP-OFDM	0.0	19.80	18.64	1	137	Back	5	0.506	0.206	1.189	0.430	0.208	0.349	20.30	0.488	0.368	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.00	3750.00	650000	CP-OFDM	0.0	21.00	20.05	1	1	Left	5	0.599	0.366	1.245	1.198	0.456	0.746	20.30	1.000	0.625	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	1	137	Back	5	0.506	0.206	1.189	0.430	0.208	0.349	20.30	0.488	0.368	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.08	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	135	0	Back	5	0.506	0.206	1.189	0.430	0.208	0.349	20.30	0.488	0.368	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	1	137	Bottom	5	0.534	0.228	1.104	0.369	0.142	0.231	18.90	0.309	0.193	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	135	0	Bottom	5	0.534	0.228	1.104	0.369	0.142	0.231	18.90	0.309	0.193	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	1	137	Left	5	0.543	0.311	1.004	0.311	0.343	0.582	18.90	0.780	0.488	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	135	0	Left	5	0.527	0.283	1.122	0.361	0.318	0.538	18.90	0.721	0.451	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	19.80	18.64	270	0	Left	5	0.507	0.282	1.151	0.683	0.325	0.552	18.90	0.740	0.461	
Body	NR Band n77	100	QPSK	1a	9690H	1:1	0.07	3930.00	662000	CP-OFDM	0.0	19.80	18.64	1	1	Left	5	0.577	0.249	1.175	0.705	0.293	0.497	18.90	0.566	0.416	
ANSI/CES 1.190 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncorrelated Exposure/General Population																		averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-90 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #	
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	1	137	Back	5	0.462	0.267	1.202	0.796	0.321	0.498	18.60	0.780	0.488		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Back	5	0.460	0.278	1.172	0.809	0.326	0.506	18.60	0.792	0.495		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	1	137	Top	5	0.466	0.278	1.159	0.822	0.336	0.514	18.60	0.805	0.503		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.11	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Top	5	0.466	0.278	1.159	0.822	0.331	0.513	18.60	0.803	0.503		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Top	5	0.519	0.307	1.172	0.922	0.308	0.514	18.60	0.822	0.514		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	1	137	Bottom	5	0.466	0.278	1.172	0.822	0.331	0.514	18.60	0.803	0.503		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Bottom	5	0.546	0.318	1.172	0.929	0.310	0.588	18.60	0.420	0.263		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	1	135	137	Right	5	0.742	0.291	1.052	0.892	0.332	0.588	18.60	0.874	0.546	
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Right	5	0.742	0.291	1.052	0.892	0.332	0.588	18.60	0.874	0.546		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.75	270	0	Right	5	0.840	0.333	1.216	1.021	0.405	0.638	18.60	1.000	0.625		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.03	3750.00	650000	CP-OFDM	0.0	18.60	17.80	1	1	Left	5	0.470	0.278	1.189	0.986	0.391	0.618	18.60	0.966	0.604		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Left	5	0.502	0.300	1.202	0.902	0.000	0.000	18.60	0.000	0.001		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.60	17.80	135	0	Left	5	0.504	0.301	1.172	0.905	0.000	0.000	18.60	0.000	0.005		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	18.60	18.04	1	137	Back	5	0.462	0.267	1.202	0.776	0.314	0.484	18.60	0.768	0.479		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.84	135	0	Back	5	0.796	0.285	1.164	0.822	0.333	0.514	18.60	0.805	0.503		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.80	270	0	Back	5	0.507	0.287	1.172	0.929	0.336	0.518	18.60	0.812	0.508		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.80	1	137	Bottom	5	0.534	0.308	1.112	0.800	0.320	0.514	18.60	0.853	0.521		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.84	135	0	Bottom	5	0.518	0.308	1.164	0.970	0.126	0.231	18.60	0.362	0.226		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.80	1	137	Left	5	0.507	0.306	1.112	0.875	0.340	0.547	18.60	0.857	0.536		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.84	135	0	Left	5	0.502	0.311	1.164	0.957	0.374	0.598	18.60	0.917	0.586		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	18.60	17.81	270	0	Right	5	0.753	0.291	1.172	0.883	0.341	0.512	18.60	0.865	0.541		
Body	NR Band n77	100	QPSK	2	34C7C	1:1	0.00	3930.00	662000	CP-OFDM	0.0	18.60	18.10	1	1	Left	5	0.734	0.308	1.096	0.886	0.338	0.537	18.60	0.841	0.528		
ANSI/CES 1.190 - SAFETY LIMIT																					Body							
Spatial Peak																					1.6 W/kg (mW/g)							
Uncorrelated Exposure/General Population																												

10.30 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 Antenna 3a

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	3a	RWALL	97.87	-0.03	2412	1	1.0	19.50	18.88	Back	5	0.777	0.394	1.153	1.022	0.916	0.464	0.573	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	-0.02	2437	6	1.0	19.50	18.71	Back	5	0.826	0.421	1.199	1.022	1.012	0.516	0.633	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	0.08	2462	11	1.0	19.50	18.82	Back	5	0.710	0.357	1.169	1.022	0.848	0.427	0.530	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	-0.05	2412	1	1.0	19.50	18.88	Top	5	0.296	0.133	1.153	1.022	0.349	0.157	0.218	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	0.03	2412	1	1.0	19.50	18.88	Bottom	5	0.025	0.012	1.153	1.022	0.029	0.014	0.018	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	0.02	2412	1	1.0	19.50	18.88	Right	5	0.798	0.363	1.153	1.022	0.940	0.428	0.588	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	0.01	2437	6	1.0	19.50	18.71	Right	5	0.911	0.415	1.199	1.022	1.116	0.509	0.698	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	-0.02	2462	11	1.0	19.50	18.82	Right	5	0.611	0.276	1.169	1.022	0.730	0.330	0.456	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RWALL	97.87	0.03	2412	1	1.0	19.50	18.88	Left	5	0.002	0.000	1.153	1.022	0.002	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								

Table 10-94 Antenna 3a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RXWALL	97.87	-0.20	2412	1	1.0	16.50	15.85	Back	5	0.406	0.203	1.161	1.022	0.482	0.241	0.301	15.00	0.316	0.210	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RXWALL	97.87	-0.06	2412	1	1.0	16.50	15.85	Top	5	0.172	0.070	1.161	1.022	0.204	0.083	0.128	15.00	0.142	0.089	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	RXWALL	97.87	0.03	2412	1	1.0	16.50	15.85	Right	5	0.484	0.213	1.161	1.022	0.574	0.253	0.359	15.00	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body											
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-95 Antenna 1a

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	1a	34C7C	98.06	-0.13	2412	1	1.0	20.75	19.65	Back	5	0.698	0.365	1.288	1.020	0.917	0.480	0.573	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	-0.09	2437	6	1.0	20.75	19.72	Back	5	0.765	0.398	1.268	1.020	0.989	0.515	0.618	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	-0.09	2462	11	1.0	20.75	19.63	Back	5	0.729	0.386	1.294	1.020	0.975	0.509	0.609	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	0.08	2437	6	1.0	20.75	19.68	Top	5	0.021	0.011	1.268	1.020	0.027	0.014	0.017	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	-0.03	2437	6	1.0	20.75	19.72	Bottom	5	0.274	0.105	1.268	1.020	0.354	0.136	0.221	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	0.09	2437	6	1.0	20.75	19.72	Right	5	0.000	0.000	1.268	1.020	0.000	0.000	0.000	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	0.04	2412	1	1.0	20.75	19.65	Left	5	0.745	0.316	1.288	1.020	0.979	0.441	0.512	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	0.01	2437	6	1.0	20.75	19.72	Left	5	0.918	0.411	1.268	1.020	1.187	0.532	0.742	A30
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	0.00	2462	11	1.0	20.75	19.63	Left	5	0.772	0.346	1.294	1.020	1.019	0.457	0.637	
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 Antenna 1a Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	-0.07	2437	6	1.0	17.75	16.95	Back	5	0.402	0.206	1.202	1.020	0.493	0.213	0.308	16.05	0.333	0.208	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	-0.03	2437	6	1.0	17.75	16.95	Bottom	5	0.145	0.058	1.202	1.020	0.178	0.071	0.111	16.05	0.120	0.075	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	34C7C	98.06	0.02	2437	6	1.0	17.75	16.95	Left	5	0.483	0.214	1.202	1.020	0.582	0.262	0.370	16.05	0.400	0.250	
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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10.31 5 GHz WIFI SISO Standalone SAR

Table 10-97 Antenna 5T

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 802.11n	40	OFDM	ST	2M022	96.61	0.08	5270	54	U-NII-2A	13.5	20.00	18.65	Back	5	0.062	0.003	1.365	1.035	0.088	0.032	0.055	18.50	0.060	0.038	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	ST	2M022	96.61	0.07	5270	54	U-NII-2A	13.5	20.00	18.65	Top	5	0.000	0.000	1.365	1.035	0.000	0.000	0.000	18.50	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	ST	2M022	96.61	0.15	5270	54	U-NII-2A	13.5	20.00	18.65	Bottom	5	0.000	0.000	1.365	1.035	0.000	0.000	0.000	18.50	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	ST	2M022	96.61	0.06	5270	54	U-NII-2A	13.5	20.00	18.65	Right	5	0.400	0.141	1.365	1.035	0.565	0.199	0.353	18.50	0.400	0.250	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	ST	2M022	96.61	0.09	5310	62	U-NII-2A	13.5	17.00	15.31	Right	5	0.222	0.077	1.408	1.035	0.324	0.112	0.218	15.50	0.240	0.144	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	ST	2M022	96.61	0.06	5270	54	U-NII-2A	13.5	20.00	18.65	Left	5	0.013	0.003	1.365	1.035	0.018	0.004	0.011	18.50	0.010	0.006	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-98 Antenna 5T

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	ST	53404	96.61	-0.08	5690	138	U-NII-2C	29.3	18.75	17.27	Back	5	0.143	0.057	1.406	1.035	0.208	0.083	0.130		
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	53404	96.61	0.01	5690	138	U-NII-2C	29.3	18.75	17.27	Top	5	0.000	0.000	1.406	1.035	0.000	0.000	0.000		
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	53404	96.61	0.07	5690	138	U-NII-2C	29.3	18.75	17.27	Bottom	5	0.000	0.000	1.406	1.035	0.000	0.000	0.000		
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	53404	96.61	0.09	5530	106	U-NII-2C	29.3	16.50	14.86	Right	5	0.321	0.116	1.459	1.035	0.485	0.175	0.301		
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	53404	96.61	-0.03	5610	122	U-NII-2C	29.3	18.75	17.15	Right	5	0.694	0.260	1.445	1.035	1.038	0.389	0.649		
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	53404	96.61	-0.02	5690	138	U-NII-2C	29.3	18.75	17.27	Right	5	0.805	0.310	1.406	1.035	1.171	0.451	0.712		
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	53404	96.61	-0.16	5690	138	U-NII-2C	29.3	18.75	17.27	Left	5	0.009	0.001	1.406	1.035	0.013	0.001	0.008		
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 10-99 Antenna 5T Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	13004	96.61	-0.07	1460	138	U-NII-2C	29.3	15.75	14.68	Back	5	0.084	0.038	1.279	1.035	0.071	0.024	0.044	14.15	0.050	0.031	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	13004	96.61	0.07	1460	138	U-NII-2C	29.3	15.75	14.68	Top	5	0.000	0.000	1.279	1.035	0.000	0.000	0.000	14.15	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	13004	96.61	0.04	1460	138	U-NII-2C	29.3	15.75	14.68	Right	5	0.443	0.158	1.279	1.035	0.586	0.209	0.366	0.052	0.415	0.210	
ANS/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 Antenna 5T

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	ST	J2G2C	96.61	0.21	5795	159	U-NII-3	13.5	18.75	17.31	Back	5	0.098	0.036	1.393	1.035	0.141	0.052	0.088		
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	ST	J2G2C	96.61	0.08	5795	159	U-NII-3	13.5	18.75	17.31	Top	5	0.000	0.000	1.393	1.035	0.000	0.000	0.000		
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	ST	J2G2C	96.61	0.03	5795	159	U-NII-3	13.5	18.75	17.31	Bottom	5	0.000	0.000	1.393	1.035	0.000	0.000	0.000		
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	ST	J2G2C	96.61	0.08	5795	151	U-NII-3	13.5	18.75	17.38	Right	5	0.812	0.319	1.403	1.035	1.179	0.463	0.737		
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	ST	J2G2C	96.61	0.04	5795	159	U-NII-3	13.5	18.75	17.31	Right	5	0.817	0.282	1.393	1.035	1.178	0.407	0.736		
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	ST	J2G2C	96.61	0.07	5795	159	U-NII-3	13.5	18.75	17.31	Left	5	0.013	0.000	1.393	1.035	0.019	0.000	0.012		
ANS/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 5T Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	J2G2C	96.61	-0.03	5775	155	U-NII-3	29.3	15.75	14.66	Back	5	0.045	0.016	1.285	1.035	0.060	0.021	0.038	14.15	0.040	0.025	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	ST	J2G2C	96.61	0.05	5775	155	U-NII-3	29.3	15.75	14.66	Right	5	0.437	0.160	1.285	1.035	0.581	0.213	0.363	14.15	0.400	0.250	
ANS/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 10-102 Antenna 3b

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	3b	96RHX	97.51	-0.09	5310	62	U-NII-2A	13.5	17.00	15.89	Back	5	0.532	0.196	1.291	1.026	0.705	0.260	0.441	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	3b	96RHX	97.51	-0.02	5270	54	U-NII-2A	13.5	17.00	16.13	Top	5	0.540	0.162	1.222	1.026	0.677	0.203	0.423	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	3b	96RHX	97.51	-0.04	5310	62	U-NII-2A	13.5	17.00	15.89	Top	5	0.781	0.237	1.291	1.026	1.034	0.314	0.546	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	3b	96RHX	97.51	-0.05	5310	62	U-NII-2A	13.5	17.00	15.89	Bottom	5	0.001	0.000	1.291	1.026	0.001	0.000	0.001	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	3b	96RHX	97.51	0.14	5310	62	U-NII-2A	13.5	17.00	15.89	Right	5	0.049	0.017	1.291	1.026	0.065	0.023	0.041	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	3b	96RHX	97.51	0.08	5310	62	U-NII-2A	13.5	17.00	15.89	Left	5	0.025	0.008	1.291	1.026	0.033	0.011	0.021	
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 10-103 Antenna 3b Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.11	5290	58	U-NII-2A	29.3	14.25	13.39	Back	5	0.390	0.131	1.164	1.026	0.466	0.156	0.291	12.35	0.310	0.194	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.08	5290	58	U-NII-2A	29.3	14.25	13.39	Top	5	0.496	0.148	1.164	1.026	0.502	0.177	0.370	12.35	0.400	0.250	
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 10-104 Antenna 3b

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	3b	96RHX	97.51	-0.01	5530	106	U-NII-2C	29.3	15.50	14.93	Back	5	0.872	0.325	1.140	1.026	1.020	0.380	0.638	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.06	5610	122	U-NII-2C	29.3	15.50	15.07	Back	5	0.854	0.319	1.104	1.026	0.967	0.361	0.604	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.02	5690	138	U-NII-2C	29.3	15.50	15.23	Back	5	0.933	0.349	1.064	1.026	1.019	0.381	0.637	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.04	5530	106	U-NII-2C	29.3	15.50	14.93	Top	5	0.872	0.325	1.140	1.026	1.020	0.380	0.638	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.04	5530	106	U-NII-2C	29.3	15.50	14.93	Top	5	1.000	0.310	1.140	1.026	1.170	0.363	0.731	A31
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.05	5610	122	U-NII-2C	29.3	15.50	15.07	Top	5	0.975	0.297	1.104	1.026	1.104	0.336	0.690	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.02	5690	138	U-NII-2C	29.3	15.50	15.23	Top	5	0.962	0.303	1.064	1.026	1.050	0.331	0.656	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.01	5690	138	U-NII-2C	29.3	15.50	15.23	Top	5	0.976	0.294	1.064	1.026	1.044	0.336	0.653	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.05	5690	138	U-NII-2C	29.3	15.50	15.23	Bottom	5	0.000	0.000	1.064	1.026	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.07	5690	138	U-NII-2C	29.3	15.50	15.23	Right	5	0.033	0.012	1.064	1.026	0.036	0.013	0.023	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.08	5690	138	U-NII-2C	29.3	15.50	15.23	Left	5	0.023	0.007	1.064	1.026	0.025	0.008	0.016	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 10-105 Antenna 3b Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.08	5610	122	U-NII-2C	29.3	12.50	11.42	Back	5	0.417	0.147	1.282	1.026	0.548	0.193	0.343	10.80	0.370	0.231	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.04	5610	122	U-NII-2C	29.3	12.50	11.42	Top	5	0.451	0.137	1.282	1.026	0.593	0.180	0.371	10.80	0.400	0.250	
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 10-106 Antenna 3b

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	3b	96RHX	97.51	-0.13	5775	155	U-NII-3	29.3	15.75	14.41	Back	5	0.673	0.252	1.361	1.026	0.937	0.352	0.586	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.05	5775	155	U-NII-3	29.3	15.75	14.41	Top	5	0.789	0.250	1.361	1.026	1.102	0.349	0.689	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	-0.08	5775	155	U-NII-3	29.3	15.75	14.48	Top	5	0.881	0.270	1.340	1.026	1.184	0.371	0.740	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.07	5775	155	U-NII-3	29.3	15.75	14.48	Bottom	5	0.000	0.000	1.340	1.026	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.031	5775	155	U-NII-3	29.3	15.75	14.48	Right	5	0.031	0.012	1.340	1.026	0.043	0.016	0.027	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	96RHX	97.51	0.02	5775	155	U-NII-3	29.3	15.75	14.48	Left	5	0.021	0.006	1.340	1.026	0.029	0.008	0.018	
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 10-107 Antenna 3b Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	R9WLL	97.51	-0.01	1775	155	U-NII-3	29.3	12.75	11.75	Back	5	0.444	0.162	1.259	1.026	0.574	0.209	0.359	11.05	0.387	0.242	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	3b	R9WLL	97.51	-0.05	1775	155	U-NII-3	29.3	12.75	11.75	Top	5	0.459	0.144	1.259	1.026	0.508	0.186	0.371	11.05	0.400	0.250	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-108 Antenna 1b

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	1b	RWVLL	97.94	0.00	5270	54	U-NII-2A	13.5	17.00	16.15	Back	5	0.502	0.169	1.216	1.021	0.623	0.210	0.389	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	0.07	5270	54	U-NII-2A	13.5	17.00	16.15	Top	5	0.000	0.000	1.216	1.021	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	0.09	5270	54	U-NII-2A	13.5	17.00	16.15	Bottom	5	0.626	0.188	1.216	1.021	0.781	0.235	0.488	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	0.01	5310	82	U-NII-2A	13.5	17.00	16.02	Bottom	5	0.505	0.169	1.253	1.021	0.704	0.216	0.440	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	0.08	5270	54	U-NII-2A	13.5	17.00	16.15	Right	5	0.010	0.000	1.216	1.021	0.012	0.000	0.008	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	0.11	5270	54	U-NII-2A	13.5	17.00	16.15	Left	5	0.026	0.009	1.216	1.021	0.032	0.011	0.020	
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 10-109 Antenna 1b Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	-0.16	5270	54	U-NII-2A	13.5	16.00	14.94	Back	5	0.273	0.093	1.306	1.021	0.394	0.124	0.228	14.40	0.250	0.156	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	RWVLL	97.94	-0.03	5270	54	U-NII-2A	13.5	16.00	14.94	Bottom	5	0.434	0.135	1.306	1.021	0.629	0.180	0.362	14.40	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-110 Antenna 1b

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	1b	53414	97.94	0.02	5530	106	U-NII-2C	29.3	16.00	14.16	Back	5	0.601	0.206	1.528	1.021	0.938	0.321	0.586	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	-0.05	5610	122	U-NII-2C	29.3	17.00	16.04	Back	5	0.808	0.281	1.247	1.021	1.029	0.358	0.643	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	-0.08	5690	138	U-NII-2C	29.3	17.00	16.03	Back	5	0.896	0.316	1.250	1.021	1.144	0.403	0.715	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	0.04	5610	122	U-NII-2C	29.3	17.00	16.04	Top	5	0.001	0.000	1.247	1.021	0.001	0.000	0.001	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	-0.03	5530	106	U-NII-2C	29.3	16.00	14.16	Bottom	5	0.644	0.195	1.528	1.021	1.005	0.304	0.628	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	0.07	5610	122	U-NII-2C	29.3	17.00	16.04	Bottom	5	0.804	0.245	1.247	1.021	1.024	0.312	0.640	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	0.03	5690	138	U-NII-2C	29.3	17.00	16.03	Bottom	5	0.935	0.286	1.250	1.021	1.193	0.365	0.746	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	0.08	5610	122	U-NII-2C	29.3	17.00	16.04	Right	5	0.031	0.010	1.247	1.021	0.019	0.013	0.024	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	0.08	5610	122	U-NII-2C	29.3	17.00	16.04	Left	5	0.063	0.023	1.247	1.021	0.078	0.029	0.049	
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 1b Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	-0.02	5690	138	U-NII-2C	29.3	14.00	12.94	Back	5	0.360	0.124	1.276	1.021	0.469	0.162	0.293	12.40	0.320	0.200	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	53414	97.94	-0.08	5690	138	U-NII-2C	29.3	14.00	12.94	Bottom	5	0.454	0.141	1.276	1.021	0.591	0.184	0.369	12.40	0.400	0.250	
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 10-112 Antenna 1b

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 #
9.3 Mbps, 80 MHz	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	-0.18	5775	155	U-NII-3	29.3	16.00	15.12	Back	5	0.929	0.313	1.225	1.021	1.162	0.391	0.726	
9.3 Mbps, 80 MHz	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	0.02	5775	155	U-NII-3	29.3	16.00	15.12	Top	5	0.090	0.000	1.225	1.021	0.000	0.000	0.000	
9.3 Mbps, 80 MHz	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	0.06	5775	155	U-NII-3	29.3	16.00	15.12	Right	5	0.028	0.008	1.225	1.021	0.005	0.010	0.022	
ERROR	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	0.02	5775	155	U-NII-3	29.3	16.00	15.12	Bottom	5	0.949	0.293	1.225	1.021	1.187	0.366	0.742	
ERROR	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	0.01	5775	155	U-NII-3	29.3	16.00	15.12	Left	5	0.051	0.020	1.225	1.021	0.064	0.025	0.040	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-113 Antenna 1b Reduced

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	-0.08	5775	155	U-NII-3	29.3	13.00	11.96	Back	5	0.391	0.135	1.274	1.021	0.509	0.176	0.318	11.40	0.350	0.219	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	RWVLL	97.94	-0.05	5775	155	U-NII-3	29.3	13.00	11.96	Bottom	5	0.450	0.137	1.274	1.021	0.585	0.188	0.366	11.40	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

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10.32 6 GHz WIFI SISO Standalone SAR and APD

Table 10-114 Antenna 5T

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.01	6025	15	68.1	13.25	12.52	Back	0	0.025	0.011	1.183	1.022	0.030	0.013	0.019	13.05	0.030	0.019	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.02	6025	15	68.1	13.25	12.52	Top	0	0.002	0.000	1.183	1.022	0.002	0.000	0.001	13.05	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.02	6025	15	68.1	13.25	12.52	Bottom	0	0.000	0.000	1.183	1.022	0.000	0.000	0.000	13.05	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.02	6025	15	68.1	13.25	12.52	Right	0	0.304	0.073	1.183	1.022	0.247	0.088	0.154	13.05	0.230	0.144	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.03	6185	47	68.1	13.00	12.38	Right	0	0.235	0.087	1.133	1.022	0.277	0.103	0.173	12.80	0.260	0.163	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.11	6345	79	68.1	12.75	11.13	Right	0	0.262	0.089	1.452	1.022	0.376	0.138	0.234	12.55	0.350	0.215	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.11	6505	111	68.1	12.25	11.06	Right	0	0.317	0.115	1.315	1.022	0.426	0.155	0.266	12.05	0.400	0.250	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.10	6665	143	68.1	12.00	10.82	Right	0	0.260	0.094	1.312	1.022	0.349	0.120	0.218	11.80	0.330	0.206	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.06	6885	207	68.1	11.50	9.99	Right	0	0.278	0.102	1.416	1.022	0.402	0.148	0.251	11.30	0.380	0.238	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.05	6925	15	68.1	13.25	12.52	Left	0	0.009	0.002	1.183	1.022	0.011	0.002	0.007	13.05	0.010	0.006	
ANSI/IEEE C63.19-2012 SAFETY LIMIT																									
Spatial Peak														Body											
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g)											
														averaged over 1 gram											
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)]	Plot #						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.01	6025	15	68.1	13.25	12.52	Back	5	0.225	1.183	1.022	0.272							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.02	6025	15	68.1	13.25	12.52	Top	5	0.017	1.183	1.022	0.021							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.02	6025	15	68.1	13.25	12.52	Bottom	5	0.000	1.183	1.022	0.000							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.02	6025	15	68.1	13.25	12.52	Right	5	1.630	1.183	1.022	1.971							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	-0.03	6185	47	68.1	13.00	12.38	Right	5	1.940	1.153	1.022	2.286							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.11	6345	79	68.1	12.75	11.13	Right	5	2.080	1.452	1.022	3.087							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.11	6505	111	68.1	12.25	11.06	Right	5	2.570	1.315	1.022	3.454							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.10	6665	143	68.1	12.00	10.82	Right	5	2.110	1.312	1.022	2.829							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.06	6885	207	68.1	11.50	9.99	Right	5	2.290	1.416	1.022	3.114							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	5T	YIYM4	97.81	0.01	6025	15	68.1	13.25	12.52	Left	5	0.055	1.183	1.022	0.066							

Table 10-115 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.01	6025	15	68.1	12.50	10.77	Back	0	0.280	0.105	1.489	1.019	0.425	0.159	0.266	12.30	0.400	0.250	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.16	6345	79	68.1	14.25	13.85	Back	0	0.368	0.139	1.096	1.019	0.411	0.155	0.257	14.05	0.390	0.244	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.09	6505	111	68.1	15.25	14.78	Back	0	0.362	0.134	1.114	1.019	0.411	0.152	0.257	15.05	0.390	0.244	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.05	6665	143	68.1	14.75	14.69	Back	0	0.379	0.141	1.014	1.019	0.392	0.146	0.245	14.55	0.370	0.231	A32
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.02	6825	175	68.1	15.50	14.82	Back	0	0.331	0.123	1.169	1.019	0.394	0.147	0.246	15.30	0.370	0.231	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.07	6885	207	68.1	13.25	12.05	Back	0	0.123	0.044	1.330	1.019	0.167	0.060	0.104	13.05	0.160	0.100	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	-0.06	6925	15	68.1	12.50	10.77	Top	0	0.245	0.077	1.489	1.019	0.372	0.117	0.233	12.30	0.350	0.219	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.17	6345	79	68.1	14.25	13.85	Top	0	0.454	0.086	1.086	1.019	0.284	0.086	0.178	14.05	0.270	0.169	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.02	6505	111	68.1	15.25	14.78	Top	0	0.317	0.101	1.114	1.019	0.360	0.115	0.225	15.05	0.340	0.213	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.03	6665	143	68.1	14.75	14.69	Top	0	0.325	0.106	1.014	1.019	0.336	0.113	0.219	14.55	0.320	0.200	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.16	6825	175	68.1	15.50	14.82	Top	0	0.269	0.086	1.169	1.019	0.356	0.114	0.223	15.30	0.340	0.213	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.03	6885	207	68.1	13.25	12.05	Top	0	0.111	0.034	1.330	1.019	0.150	0.046	0.094	13.05	0.140	0.088	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.01	6825	175	68.1	15.50	14.82	Bottom	0	0.000	0.000	1.169	1.019	0.000	0.000	0.000	15.30	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.09	6825	175	68.1	15.50	14.82	Right	0	0.001	0.000	1.169	1.019	0.001	0.000	0.001	15.30	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.10	0.01	6825	175	68.1	15.50	14.82	Left	0	0.000	0.000	1.169	1.019	0.000	0.000	0.000	15.30	0.000	0.000	
ANSI/IEEE C63.19-2012 SAFETY LIMIT																									
Spatial Peak														Body											
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g)											
														averaged over 1 gram											
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)]	Plot #						
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.01	6025	15	68.1	12.50	10.77	Back	5	2.360	1.489	1.019	3.581							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.16	6345	79	68.1	14.25	13.85	Back	5	3.100	1.096	1.019	3.462							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.09	6505	111	68.1	15.25	14.78	Back	5	2.980	1.114	1.019	3.383							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.05	6665	143	68.1	14.75	14.69	Back	5	3.150	1.014	1.019	3.255							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.02	6825	175	68.1	15.50	14.82	Back	5	2.750	1.169	1.019	3.276							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.07	6885	207	68.1	13.25	12.01	Back	5	0.975	1.330	1.019	1.321							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	-0.06	6925	15	68.1	12.50	10.77	Top	5	3.740	1.489	1.019	2.640							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.17	6345	79	68.1	14.25	13.85	Top	5	1.930	1.096	1.019	2.155							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.02	6505	111	68.1	15.25	14.78	Top	5	2.290	1.114	1.019	2.600							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.03	6665	143	68.1	14.75	14.69	Top	5	2.460	1.014	1.019	2.542							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.16	6825	175	68.1	15.25	14.81	Top	5	2.160	1.169	1.019	2.573							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.03	6985	207	68.1	13.50	12.01	Top	5	0.779	1.330	1.019	1.056							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.01	6825	175	68.1	15.50	14.82	Bottom	5	0.001	1.169	1.019	0.004							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.09	6825	175	68.1	15.50	14.82	Right	5	0.012	1.169	1.019	0.014							
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	3b	YIYM4	98.1	0.01	6825	175	68.1	15.50	14.82	Left	5	0.002	1.169	1.019	0.002							

Table 10-116 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	-0.17	6025	15	68.1	10.25	9.68	Back	5	0.257	0.088	1.140	1.024	0.300	0.103	0.188	9.85	0.273	0.171	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.30	6185	47	68.1	10.75	9.64	Back	5	0.215	0.072	1.291	1.024	0.284	0.093	0.178	10.35	0.258	0.161	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	-0.07	6345	79	68.1	12.50	10.51	Back	5	0.272	0.092	1.581	1.024	0.440	0.149	0.275	12.10	0.400	0.250	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.13	6505	111	68.1	11.00	9.40	Back	5	0.176	0.058	1.445	1.024	0.260	0.086	0.163	10.60	0.236	0.148	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.05	6665	143	68.1	11.50	10.85	Back	5	0.212	0.069	1.361	1.024	0.252	0.082	0.158	11.10	0.229	0.143	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.02	6885	207	68.1	13.25	11.60	Back	5	0.185	0.062	1.462	1.024	0.277	0.093	0.173	12.85	0.252	0.158	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.09	6985	207	68.1	13.25	11.60	Top	5	0.000	0.000	1.462	1.024	0.000	0.000	0.000	12.85	0.000	0.000	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.00	6025	15	68.1	10.25	9.68	Bottom	5	0.248	0.079	1.140	1.024	0.290	0.092	0.181	9.85	0.264	0.165	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.05	6185	47	68.1	10.75	9.64	Bottom	5	0.189	0.059	1.291	1.024	0.250	0.078	0.156	10.35	0.227	0.142	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.06	6345	79	68.1	12.50	10.51	Bottom	5	0.126	0.072	1.581	1.024	0.366	0.117	0.229	12.10	0.333	0.208	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.07	6505	111	68.1	11.00	9.40	Bottom	5	0.151	0.046	1.445	1.024	0.223	0.068	0.139	10.60	0.203	0.127	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	-0.09	6665	143	68.1	11.50	10.85	Bottom	5	0.181	0.055	1.361	1.024	0.215	0.065	0.134	11.10	0.195	0.122	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.06	6885	207	68.1	13.25	11.60	Bottom	5	0.203	0.061	1.462	1.024	0.304	0.091	0.190	12.85	0.276	0.173	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.08	6985	207	68.1	13.25	11.60	Right	5	0.000	0.000	1.462	1.024	0.000	0.000	0.000	12.85	0.000	0.000	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.05	6985	207	68.1	13.25	11.60	Left	5	0.008	0.003	1.462	1.024	0.012	0.004	0.008	12.85	0.011	0.007	
ANSI/IEEE C63.19-2 SAFETY LIMIT														Body Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram											
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 WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	-0.17	6025	15	68.1	10.25	9.68	Back	5	1.990	1.140	1.024	2.323	0.116						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.20	6185	47	68.1	10.75	9.64	Back	5	1.630	1.291	1.024	2.155	0.108						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	-0.07	6345	79	68.1	12.50	10.51	Back	5	2.080	1.581	1.024	3.367	0.168						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.13	6505	111	68.1	11.00	9.40	Back	5	1.310	1.445	1.024	1.938	0.097						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.05	6665	143	68.1	11.50	10.85	Back	5	1.560	1.161	1.024	1.855	0.093						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.02	6885	207	68.1	13.25	11.60	Back	5	1.400	1.462	1.024	2.096	0.105						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.09	6985	207	68.1	13.25	11.60	Top	5	0.000	1.462	1.024	0.000	0.000						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.00	6025	15	68.1	10.25	9.68	Bottom	5	1.790	1.140	1.024	2.090	0.105						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.05	6185	47	68.1	10.75	9.64	Bottom	5	1.370	1.291	1.024	1.758	0.088						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.06	6345	79	68.1	12.50	10.51	Bottom	5	1.630	1.581	1.024	2.639	0.132						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.07	6505	111	68.1	11.00	9.40	Bottom	5	1.050	1.445	1.024	1.554	0.078						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	-0.09	6665	143	68.1	11.50	10.85	Bottom	5	1.260	1.161	1.024	1.498	0.075						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.06	6885	207	68.1	13.25	11.60	Bottom	5	1.390	1.462	1.024	2.081	0.104						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.08	6985	207	68.1	13.25	11.60	Right	5	0.008	1.462	1.024	0.012	0.001						
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	1b	LV9G1	97.67	0.05	6985	207	68.1	13.25	11.60	Left	5	0.070	1.462	1.024	0.105	0.005						

FCC ID: BCGA3462

RF EXPOSURE REPORT

Approved by:
Technical ManagerDocument S/N:
1C2509100082-01.BCG-R2DUT Type:
Tablet Device

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10.33 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-117 Antenna 3a

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	3a	7RWVX	76.55	0.02	2402	0	1	19.50	18.01	Back	5	0.455	0.231	1.409	1.306	0.837	0.425	0.523	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	-0.10	2441	39	1	19.50	18.35	Back	5	0.534	0.270	1.303	1.306	0.909	0.460	0.568	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	-0.02	2480	78	1	19.50	18.21	Back	5	0.490	0.250	1.346	1.306	0.862	0.440	0.539	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	-0.02	2441	39	1	19.50	18.35	Top	5	0.248	0.097	1.303	1.306	0.422	0.165	0.264	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	-0.13	2441	39	1	19.50	18.35	Bottom	5	0.022	0.011	1.303	1.306	0.037	0.019	0.021	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	0.01	2402	0	1	19.50	18.01	Right	5	0.539	0.247	1.409	1.306	0.992	0.455	0.620	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	0.02	2441	39	1	19.50	18.35	Right	5	0.684	0.311	1.303	1.306	1.164	0.529	0.728	A13
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	0.02	2480	78	1	19.50	18.21	Right	5	0.647	0.293	1.346	1.306	1.138	0.515	0.711	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	0.01	2441	39	1	19.50	18.35	Left	5	0.000	0.000	1.303	1.306	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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

Table 10-118 Antenna 3a Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	-0.02	2441	39	1	16.50	15.71	Back	5	0.274	0.138	1.199	1.306	0.429	0.216	0.268	15.30	0.318	0.199	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	-0.01	2441	39	1	16.50	15.71	Top	5	0.117	0.047	1.199	1.306	0.183	0.074	0.114	15.30	0.136	0.085	
Body	2.4 GHz Bluetooth	FHSS	3a	7RWVX	76.55	0.03	2441	39	1	16.50	15.71	Right	5	0.344	0.153	1.199	1.306	0.539	0.240	0.337	15.30	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body												
Spatial Peak												1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population												averaged over 1 gram												

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

Table 10-119 Antenna 1a

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	1a	34C7C	76.55	-0.01	2402	0	1	20.00	19.74	Back	5	0.549	0.284	1.062	1.306	0.762	0.394	0.476			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.05	2441	39	1	20.00	19.82	Back	5	0.563	0.292	1.042	1.306	0.766	0.397	0.479			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.07	2480	78	1	20.00	19.59	Back	5	0.558	0.290	1.099	1.306	0.801	0.416	0.501			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	0.05	2441	39	1	20.00	19.82	Top	5	0.015	0.008	1.042	1.306	0.020	0.011	0.013			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.01	2441	39	1	20.00	19.82	Bottom	5	0.256	0.099	1.042	1.306	0.348	0.135	0.218			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.03	2441	39	1	20.00	19.82	Right	5	0.000	0.000	1.042	1.306	0.000	0.000	0.000			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	0.00	2402	0	1	20.00	19.74	Left	5	0.611	0.278	1.062	1.306	0.848	0.386	0.530			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.03	2441	39	1	20.00	19.82	Left	5	0.609	0.275	1.042	1.306	0.829	0.374	0.518			
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	0.00	2480	78	1	20.00	19.59	Left	5	0.656	0.294	1.099	1.306	0.942	0.422	0.589			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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

Table 10-120 Antenna 1a Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.01	2480	78	1	17.75	16.82	Back	5	0.271	0.140	1.239	1.306	0.439	0.227	0.274	16.35	0.314	0.196	
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	-0.01	2480	78	1	17.75	16.82	Bottom	5	0.133	0.059	1.239	1.306	0.248	0.095	0.135	16.35	0.177	0.111	
Body	2.4 GHz Bluetooth	FHSS	1a	34C7C	76.55	0.00	2480	78	1	17.75	16.82	Left	5	0.346	0.149	1.239	1.306	0.560	0.241	0.350	16.35	0.460	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body												
Spatial Peak												1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population												averaged over 1 gram												

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

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10.34 802.15.4 Standalone SAR

Table 10-121 Antenna 3a

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	3a	YIJCX	-0.02	2405	11	1	19.25	18.40	Back	5	0.630	0.319	1.216	0.766	0.388	0.479	
Body	802.15.4	3a	YIJCX	-0.01	2440	18	1	19.25	18.65	Back	5	0.788	0.399	1.148	0.905	0.458	0.566	
Body	802.15.4	3a	YIJCX	-0.03	2475	25	1	19.25	18.41	Back	5	0.707	0.361	1.213	0.858	0.438	0.536	
Body	802.15.4	3a	YIJCX	-0.04	2440	18	1	19.25	18.65	Top	5	0.320	0.127	1.148	0.367	0.146	0.229	
Body	802.15.4	3a	YIJCX	0.04	2440	18	1	19.25	18.65	Bottom	5	0.027	0.014	1.148	0.031	0.016	0.019	
Body	802.15.4	3a	YIJCX	0.01	2405	11	1	19.25	18.40	Right	5	0.816	0.371	1.216	0.992	0.451	0.620	
Body	802.15.4	3a	YIJCX	0.01	2440	18	1	19.25	18.65	Right	5	1.010	0.457	1.148	1.159	0.525	0.724	A34
Body	802.15.4	3a	YIJCX	0.02	2475	25	1	19.25	18.41	Right	5	0.927	0.417	1.213	1.124	0.506	0.703	
Body	802.15.4	3a	YIJCX	0.06	2440	18	1	19.25	18.65	Left	5	0.000	0.000	1.148	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

Table 10-122 Antenna 3a Reduced

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	3a	YIJCX	-0.08	2440	18	1	16.25	15.87	Back	5	0.351	0.177	1.091	0.383	0.193	0.239	14.55	0.259	0.162	
Body	802.15.4	3a	YIJCX	-0.11	2440	18	1	16.25	15.87	Top	5	0.157	0.061	1.091	0.171	0.067	0.107	14.55	0.116	0.073	
Body	802.15.4	3a	YIJCX	-0.01	2440	18	1	16.25	15.87	Right	5	0.543	0.237	1.091	0.592	0.259	0.370	14.55	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

Table 10-123 Antenna 1a

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	1a	13Y46	-0.06	2405	11	1	20.00	19.80	Back	5	0.838	0.434	1.047	0.877	0.454	0.548	
Body	802.15.4	1a	13Y46	-0.10	2440	18	1	20.00	19.87	Back	5	0.860	0.446	1.030	0.886	0.459	0.554	
Body	802.15.4	1a	13Y46	-0.08	2475	25	1	20.00	19.85	Back	5	0.761	0.395	1.035	0.788	0.409	0.493	
Body	802.15.4	1a	13Y46	0.06	2440	18	1	20.00	19.87	Top	5	0.021	0.010	1.030	0.022	0.010	0.014	
Body	802.15.4	1a	13Y46	0.01	2440	18	1	20.00	19.87	Bottom	5	0.410	0.156	1.030	0.422	0.161	0.264	
Body	802.15.4	1a	13Y46	0.03	2440	18	1	20.00	19.87	Right	5	0.002	0.000	1.030	0.002	0.000	0.001	
Body	802.15.4	1a	13Y46	-0.01	2405	11	1	20.00	19.80	Left	5	0.896	0.408	1.047	0.938	0.427	0.586	
Body	802.15.4	1a	13Y46	0.01	2440	18	1	20.00	19.87	Left	5	0.935	0.425	1.030	0.963	0.438	0.602	
Body	802.15.4	1a	13Y46	0.01	2475	25	1	20.00	19.85	Left	5	0.987	0.448	1.035	1.022	0.464	0.639	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

Table 10-124 Antenna 1a Reduced

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	1a	13Y46	-0.09	2475	25	1	17.75	16.89	Back	5	0.373	0.191	1.219	0.455	0.233	0.284	16.55	0.340	0.213	
Body	802.15.4	1a	13Y46	-0.02	2475	25	1	17.75	16.89	Bottom	5	0.185	0.072	1.219	0.226	0.088	0.141	16.55	0.170	0.106	
Body	802.15.4	1a	13Y46	0.00	2475	25	1	17.75	16.89	Left	5	0.437	0.192	1.219	0.533	0.234	0.333	16.55	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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

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10.35 NB U-NII 1 Standalone SAR

Table 10-125 Antenna 5T

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	5T	J2G2C	76.63	0.01	5245	High	8	14.00	13.21	Back	5	0.004	0.000	1.199	0.006	0.000	0.004	
Body	NB U-NII 1	HDR	5T	J2G2C	76.63	0.07	5245	High	8	14.00	13.21	Top	5	0.000	0.000	1.199	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	5T	J2G2C	76.63	0.02	5245	High	8	14.00	13.21	Bottom	5	0.000	0.000	1.199	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	5T	J2G2C	76.63	0.06	5245	High	8	14.00	13.21	Right	5	0.066	0.021	1.199	0.103	0.033	0.064	
Body	NB U-NII 1	HDR	5T	J2G2C	76.63	0.01	5245	High	8	14.00	13.25	Right	5	0.063	0.019	1.189	0.098	0.029	0.061	
Body	NB U-NII 1	HDR	5T	J2G2C	76.63	0.07	5245	High	8	14.00	13.25	Left	5	0.000	0.000	1.189	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body						
Spatial Peak														1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population														averaged over 1 gram						

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

Table 10-126 Antenna 3b

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	3b	N179F	76.63	-0.13	5245	High	8	12.50	11.51	Back	5	0.154	0.053	1.256	0.252	0.087	0.158	
Body	NB U-NII 1	HDR	3b	N179F	76.63	0.06	5245	High	8	12.50	11.51	Top	5	0.210	0.065	1.256	0.344	0.107	0.215	A35
Body	NB U-NII 1	HDR	3b	N179F	76.63	0.07	5245	High	8	12.50	11.51	Bottom	5	0.000	0.000	1.256	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	3b	N179F	76.63	0.09	5245	High	8	12.50	11.51	Right	5	0.013	0.005	1.256	0.021	0.008	0.013	
Body	NB U-NII 1	HDR	3b	N179F	76.63	0.01	5245	High	8	12.50	11.51	Left	5	0.000	0.000	1.256	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body						
Spatial Peak														1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population														averaged over 1 gram						

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

Table 10-127 Antenna 1b

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	GFSK	1b	RWXL	56.80	-0.21	5204	Mid	2	11.00	9.82	Back	5	0.082	0.025	1.312	0.189	0.058	0.118	
Body	NB U-NII 1	GFSK	1b	RWXL	56.80	0.08	5204	Mid	2	11.00	9.82	Top	5	0.000	0.000	1.312	0.000	0.000	0.000	
Body	NB U-NII 1	GFSK	1b	RWXL	56.80	-0.19	5204	Mid	2	11.00	9.82	Bottom	5	0.103	0.030	1.312	0.238	0.069	0.149	
Body	NB U-NII 1	GFSK	1b	RWXL	56.80	0.05	5204	Mid	2	11.00	9.82	Right	5	0.001	0.000	1.312	0.002	0.000	0.001	
Body	NB U-NII 1	GFSK	1b	RWXL	56.80	0.04	5204	Mid	2	11.00	9.82	Left	5	0.005	0.002	1.312	0.012	0.005	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						

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

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10.36 NB U-NII 3 Standalone SAR

Table 10-128 Antenna 5T

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	5T	J2G2C	76.63	0.06	5844	High	1	19.50	18.45	Back	5	0.084	0.034	1.274	0.140	0.057	0.088	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.63	0.01	5844	High	1	19.50	18.45	Top	5	0.011	0.002	1.274	0.018	0.003	0.011	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.63	0.09	5844	High	1	19.50	18.45	Bottom	5	0.000	0.000	1.274	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.63	0.05	5844	High	1	19.50	18.45	Right	5	0.712	0.276	1.274	1.184	0.459	0.740	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.63	-0.01	5733	Low	1	19.50	18.26	Right	5	0.678	0.263	1.330	1.177	0.456	0.736	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.63	0.01	5789	Mid	1	19.50	18.42	Right	5	0.697	0.268	1.282	1.166	0.448	0.729	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.63	0.07	5844	High	1	19.50	18.45	Left	5	0.029	0.011	1.274	0.048	0.018	0.030	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body						
Spatial Peak														1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population														averaged over 1 gram						

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

Table 10-129 Antenna 5T Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	5T	J2G2C	76.62	0.07	5844	High	1	16.00	15.05	Back	5	0.041	0.013	1.245	0.067	0.021	0.042	14.60	0.050	0.031	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.62	0.02	5844	High	1	16.00	15.05	Top	5	0.000	0.000	1.245	0.000	0.000	0.000	14.60	0.000	0.000	
Body	NB U-NII 3	FHSS	5T	J2G2C	76.62	-0.04	5844	High	5	16.00	15.05	Right	5	0.344	0.126	1.245	0.559	0.205	0.349	14.60	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

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

Table 10-130 Antenna 3b

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	3b	34JW3	76.63	0.01	5844	High	1	15.50	14.38	Back	5	0.613	0.230	1.294	1.035	0.388	0.647	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	-0.01	5733	Low	1	15.50	14.31	Back	5	0.641	0.242	1.315	1.100	0.415	0.688	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	0.04	5789	Mid	1	15.50	14.30	Back	5	0.595	0.225	1.318	1.023	0.387	0.639	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	-0.06	5844	High	1	15.50	14.38	Top	5	0.641	0.203	1.294	1.082	0.343	0.676	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	-0.03	5733	Low	1	15.50	14.31	Top	5	0.691	0.218	1.315	1.186	0.374	0.741	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	-0.04	5789	Mid	1	15.50	14.30	Top	5	0.592	0.189	1.318	1.018	0.325	0.636	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	0.06	5844	High	1	15.50	14.38	Bottom	5	0.000	0.000	1.294	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	0.01	5844	High	1	15.50	14.38	Right	5	0.027	0.009	1.294	0.046	0.015	0.029	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	0.08	5844	High	1	15.50	14.38	Left	5	0.018	0.007	1.294	0.030	0.012	0.019	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

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

Table 10-131 Antenna 3b Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	0.07	5844	High	1	12.75	11.31	Back	5	0.293	0.104	1.393	0.533	0.189	0.333	11.05	0.360	0.225	
Body	NB U-NII 3	FHSS	3b	34JW3	76.63	0.13	5844	High	1	12.75	11.31	Top	5	0.326	0.096	1.393	0.593	0.175	0.371	11.05	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							
Spatial Peak														Body									
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram									

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

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Table 10-132 Antenna 1b

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	1b	96RHX	76.60	-0.10	5844	High	1	16.50	15.33	Back	5	0.502	0.173	1.309	0.858	0.296	0.536	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	-0.05	5733	Low	1	16.50	15.26	Back	5	0.442	0.150	1.330	0.767	0.260	0.479	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	-0.20	5789	Mid	1	16.50	15.21	Back	5	0.505	0.176	1.346	0.887	0.309	0.554	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	0.09	5789	Mid	1	16.50	15.57	Top	5	0.000	0.000	1.239	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	0.05	5844	High	1	16.50	15.33	Bottom	5	0.632	0.203	1.309	1.080	0.347	0.675	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	0.03	5733	Low	1	16.50	15.26	Bottom	5	0.557	0.177	1.330	0.967	0.307	0.604	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	-0.05	5789	Mid	1	16.50	15.57	Bottom	5	0.721	0.224	1.239	1.166	0.362	0.729	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	0.09	5789	Mid	1	16.50	15.57	Right	5	0.016	0.009	1.239	0.042	0.015	0.026	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	0.01	5789	Mid	1	16.50	15.57	Left	5	0.041	0.015	1.239	0.066	0.024	0.041	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

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

Table 10-133 Antenna 1b Reduced

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	-0.01	5789	Mid	1	14.75	14.10	Back	5	0.373	0.128	1.161	0.565	0.194	0.353	13.05	0.381	0.238	
Body	NB U-NII 3	FHSS	1b	96RHX	76.60	0.19	5789	Mid	1	14.75	14.30	Bottom	5	0.391	0.127	1.161	0.593	0.192	0.371	13.05	0.400	0.250	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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

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10.37 NB U-NII 5 Standalone SAR

Table 10-134 Antenna 5T

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	ST	534J4	80.00	0.09	6186	Low-Mid	8	-2.25	-2.77	Back	5	0.000	0.000	1.127	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.08	6186	Low-Mid	8	-2.25	-2.77	Top	5	0.000	0.000	1.127	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.06	6186	Low-Mid	8	-2.25	-2.77	Bottom	5	0.000	0.000	1.127	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.01	6417	High	8	-2.25	-3.79	Right	5	0.002	0.000	1.426	0.004	0.000	0.003	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.01	6109	Low	8	-2.25	-3.09	Right	5	0.000	0.000	1.213	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.06	6186	Low-Mid	8	-2.25	-2.77	Right	5	0.000	0.000	1.127	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.06	6263	Mid	8	-2.25	-3.18	Right	5	0.002	0.000	1.239	0.003	0.000	0.002	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.01	6340	Mid-High	8	-2.25	-3.29	Right	5	0.000	0.000	1.271	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.04	6186	Low-Mid	8	-2.25	-2.77	Left	5	0.000	0.000	1.127	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							
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	ST	534J4	80.00	0.09	6186	Low-Mid	8	-2.25	-2.77	Back	5	0.007	1.127	0.010	0.001			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.08	6186	Low-Mid	8	-2.25	-2.77	Top	5	0.000	1.127	0.000	0.000			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.06	6186	Low-Mid	8	-2.25	-2.77	Bottom	5	0.003	1.127	0.004	0.000			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.01	6417	High	8	-2.25	-3.79	Right	5	0.006	1.426	0.011	0.001			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.01	6109	Low	8	-2.25	-3.09	Right	5	0.008	1.213	0.012	0.001			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.06	6186	Low-Mid	8	-2.25	-2.77	Right	5	0.009	1.127	0.013	0.001			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.06	6263	Mid	8	-2.25	-3.18	Right	5	0.000	1.239	0.000	0.000			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.01	6340	Mid-High	8	-2.25	-3.29	Right	5	0.000	1.271	0.000	0.000			
Body	NB U-NII 5	HDR	ST	534J4	80.00	0.04	6186	Low-Mid	8	-2.25	-2.77	Left	5	0.000	1.127	0.000	0.000			

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

Table 10-135 Antenna 3b

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	3b	43499	80.00	0.01	6263	Mid	8	1.00	0.55	Back	5	0.007	0.002	1.109	0.010	0.003	0.006	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.06	6417	High	8	1.00	0.21	Top	5	0.007	0.003	1.199	0.010	0.004	0.006	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.05	6109	Low	8	1.00	0.43	Top	5	0.007	0.007	1.140	0.010	0.003	0.006	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.06	6186	Low-Mid	8	1.00	0.44	Top	5	0.005	0.001	1.138	0.007	0.001	0.004	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.02	6263	Mid	8	1.00	0.55	Top	5	0.010	0.003	1.109	0.014	0.004	0.009	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.09	6340	Mid-High	8	1.00	0.42	Top	5	0.007	0.003	1.143	0.010	0.004	0.006	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.01	6263	Mid	8	1.00	0.55	Bottom	5	0.000	0.000	1.109	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.07	6263	Mid	8	1.00	0.55	Right	5	0.000	0.000	1.109	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	3b	43499	80.00	0.01	6263	Mid	8	1.00	0.55	Left	5	0.000	0.000	1.109	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								
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	3b	43499	80.00	0.01	6263	Mid	8	1.00	0.55	Back	5	0.049	1.109	0.068	0.003			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.06	6417	High	8	1.00	0.21	Top	5	0.061	1.199	0.091	0.005			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.05	6109	Low	8	1.00	0.43	Top	5	0.039	1.140	0.056	0.003			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.06	6186	Low-Mid	8	1.00	0.44	Top	5	0.026	1.138	0.037	0.002			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.02	6263	Mid	8	1.00	0.55	Top	5	0.072	1.109	0.100	0.005			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.09	6340	Mid-High	8	1.00	0.42	Top	5	0.060	1.143	0.085	0.004			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.01	6263	Mid	8	1.00	0.55	Bottom	5	0.003	1.109	0.004	0.000			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.07	6263	Mid	8	1.00	0.55	Right	5	0.004	1.109	0.006	0.000			
Body	NB U-NII 5	HDR	3b	43499	80.00	0.01	6263	Mid	8	1.00	0.55	Left	5	0.000	1.109	0.000	0.000			

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

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Table 10-136 Antenna 1b

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	1b	FF7QY	80.00	0.08	6417	High	8	1.50	0.21	Back	5	0.016	0.005	1.346	0.027	0.008	0.017	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.09	6109	Low	8	1.50	-0.12	Back	5	0.027	0.008	1.452	0.049	0.015	0.031	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.03	6186	Low-Mid	8	1.50	0.12	Back	5	0.012	0.004	1.374	0.021	0.007	0.013	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.05	6263	Mid	8	1.50	0.21	Back	5	0.010	0.003	1.346	0.017	0.005	0.011	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.04	6340	Mid-High	8	1.50	0.11	Back	5	0.009	0.002	1.377	0.015	0.003	0.009	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.01	6263	Mid	8	1.50	0.21	Top	5	0.000	0.000	1.346	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.01	6417	High	8	1.50	0.21	Bottom	5	0.013	0.004	1.346	0.022	0.007	0.014	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	-0.17	6109	Low	8	1.50	-0.12	Bottom	5	0.024	0.008	1.452	0.044	0.015	0.028	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.05	6186	Low-Mid	8	1.50	0.12	Bottom	5	0.012	0.003	1.374	0.021	0.005	0.013	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.09	6263	Mid	8	1.50	0.21	Bottom	5	0.010	0.003	1.346	0.017	0.005	0.011	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.08	6340	Mid-High	8	1.50	0.11	Bottom	5	0.009	0.003	1.377	0.015	0.005	0.009	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.01	6263	Mid	8	1.50	0.21	Right	5	0.000	0.000	1.346	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.09	6263	Mid	8	1.50	0.21	Left	5	0.000	0.000	1.346	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								
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	1b	FF7QY	80.00	0.08	6417	High	8	1.50	0.21	Back	5	0.108	1.346	0.182	0.009			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.09	6109	Low	8	1.50	-0.12	Back	5	0.186	1.452	0.338	0.017			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.03	6186	Low-Mid	8	1.50	0.12	Back	5	0.087	1.374	0.149	0.007			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.05	6263	Mid	8	1.50	0.21	Back	5	0.075	1.346	0.126	0.006			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.04	6340	Mid-High	8	1.50	0.11	Back	5	0.053	1.377	0.091	0.005			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.01	6263	Mid	8	1.50	0.21	Top	5	0.000	1.346	0.000	0.000			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.01	6417	High	8	1.50	0.21	Bottom	5	0.082	1.346	0.138	0.007			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	-0.17	6109	Low	8	1.50	-0.12	Bottom	5	0.178	1.452	0.323	0.016			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.05	6186	Low-Mid	8	1.50	0.12	Bottom	5	0.078	1.374	0.134	0.007			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.09	6263	Mid	8	1.50	0.21	Bottom	5	0.069	1.346	0.116	0.006			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.08	6340	Mid-High	8	1.50	0.11	Bottom	5	0.059	1.377	0.102	0.005			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.01	6263	Mid	8	1.50	0.21	Right	5	0.007	1.346	0.012	0.001			
Body	NB U-NII 5	HDR	1b	FF7QY	80.00	0.09	6263	Mid	8	1.50	0.21	Left	5	0.002	1.346	0.003	0.000			

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

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10.38 WPT Standalone SAR

Table 10-137 Antenna WPT

Exposure	Band / Mode	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	WPT	FF7QY	0.05	13.60	Back	5	0.00	0.00	0.00	A36
Body	WPT	FF7QY	0.05	13.60	Top	5	0.00	0.00	0.00	
Body	WPT	FF7QY	0.02	13.60	Bottom	5	0.00	0.00	0.00	
Body	WPT	FF7QY	0.05	13.60	Right	5	0.00	0.00	0.00	
Body	WPT	FF7QY	0.03	13.60	Left	5	0.00	0.00	0.00	
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 Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
9. The orange highlights throughout the report 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 Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 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 0 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 100% transmission duty factor to determine compliance since the duty factor of the device is limited to 100% per manufacturer. See Section 8.14 and 8.22 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes:

1. The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 100%. SAR measurement for 802.15.4 is evaluated at a duty cycle of 100%. See Section 8.17 for the time domain plot for the duty factor of the device at the maximum source-based duty cycle of 100% and at the test mode during SAR measurement of 100%.

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10.40 Power Density Data

Table 10-138 6 GHz SISO

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6505	111	802.11ax	OFDM	160	12.25	11.06	0.02	2	WF5T	6QNCW	68.1	Right	97.81	0.041	1.450	1.516	1.315	1.022	3.060	6.230	3.390	6.91	A37
6505	111	802.11ax	OFDM	160	12.25	11.06	0.21	9.22	WF5T	6QNCW	68.1	Right	97.81	0.041	1.310	1.516	1.315	1.022	1.650	3.360	1.820	3.71	
6025	15	802.11ax	OFDM	160	12.50	10.77	0.09	2	3b	FF7QY	68.1	Back	98.10	0.041	0.970	1.516	1.489	1.019	2.480	5.705	2.960	6.81	
6025	15	802.11ax	OFDM	160	12.50	10.77	-0.04	9.95	3b	FF7QY	68.1	Back	98.10	0.041	0.820	1.516	1.489	1.019	1.370	3.151	1.430	3.29	
6345	79	802.11ax	OFDM	160	12.50	10.51	-0.16	2	1b	FF7QY	68.1	Back	97.67	0.041	1.420	1.516	1.581	1.024	2.730	6.700	2.770	6.80	
6345	79	802.11ax	OFDM	160	12.50	10.51	0.11	9.45	1b	FF7QY	68.1	Back	97.67	0.041	0.650	1.516	1.581	1.024	1.160	2.847	1.220	2.99	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²													

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MEASUREMENT RESULTS																						
Frequency (MHz)	Channel	Mode	Service	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 #
6263	Mid	HDRPL8	OQPSK	-2.75	-3.18	-0.08	2	WF5T	534J4	8	Right	80.00	0.041	0.165	1.516	1.104	1.250	0.144	0.301	0.156	0.33	
6263	Mid	HDRPL8	OQPSK	-2.75	-3.18	-0.09	9.57	WF5T	534J4	8	Right	80.00	0.041	0.129	1.516	1.104	1.250	0.097	0.203	0.103	0.22	
6263	Mid	HDRPL8	OQPSK	1.00	0.55	-0.17	2	3b	534J4	8	Top	80.00	0.041	0.120	1.516	1.109	1.250	0.130	0.280	0.190	0.41	
6263	Mid	HDRPL8	OQPSK	1.00	0.55	-0.05	9.57	3b	534J4	8	Top	80.00	0.041	0.080	1.516	1.109	1.250	0.100	0.210	0.110	0.23	
6109	Low	HDRPL8	OQPSK	1.50	-0.12	0.03	2	1b	FF7QY	8	Back	80.00	0.041	0.190	1.516	1.294	1.250	0.284	0.781	0.300	0.83	A38
6109	Low	HDRPL8	OQPSK	1.50	-0.12	-0.07	9.81	1b	FF7QY	8	Back	80.00	0.041	0.140	1.516	1.294	1.250	0.110	0.311	0.120	0.34	
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	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	707.5	141500	NR Band n12, 15 MHz Bandwidth	QPSK, 36 RB, 22 RB Offset	Ant 4	N/A	Back	5 mm	1.040	1.020	1.02	N/A	N/A	N/A	N/A
835	793.00	23330	LTE Band 14, 10 MHz Bandwidth	QPSK, 1 RB, 49 RB Offset	Ant 4	N/A	Back	5 mm	0.971	0.938	1.04	N/A	N/A	N/A	N/A
1750	1702.50	340500	NR Band n70, 15 MHz Bandwidth	QPSK, 36 RB, 0 RB Offset	Ant 4	N/A	Top	5 mm	1.070	1.010	1.06	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 2	N/A	Bottom	5 mm	1.010	0.997	1.01	N/A	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant 1b	N/A	Back	5 mm	1.130	1.050	1.08	N/A	N/A	N/A	N/A
2450	2510	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant 3b	N/A	Top	5 mm	1.050	0.970	1.08	N/A	N/A	N/A	N/A
2600	2593.00	40620	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant 2	N/A	Bottom	5 mm	1.070	1.010	1.06	N/A	N/A	N/A	N/A
3500	3570.00	638000	NR Band n48, 40 MHz Bandwidth	QPSK, 50 RB, 28 RB Offset	Ant 3a	N/A	Right	5 mm	1.020	1.020	1.00	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 1a	N/A	Left	5 mm	0.959	0.984	0.97	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	QPSK, 270 RB, 0 RB Offset	Ant 4	N/A	Left	5 mm	0.961	0.910	1.06	N/A	N/A	N/A	N/A
5600	5530	106	5 GHz WIFI IEEE 802.11ac	OFDM	Ant 3b	29.3	Top	5 mm	1.000	0.949	1.05	N/A	N/A	N/A	N/A
5750	5690	138	5 GHz WIFI IEEE 802.11ac	OFDM	Ant 3b	29.3	Top	5 mm	0.962	0.956	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram						

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

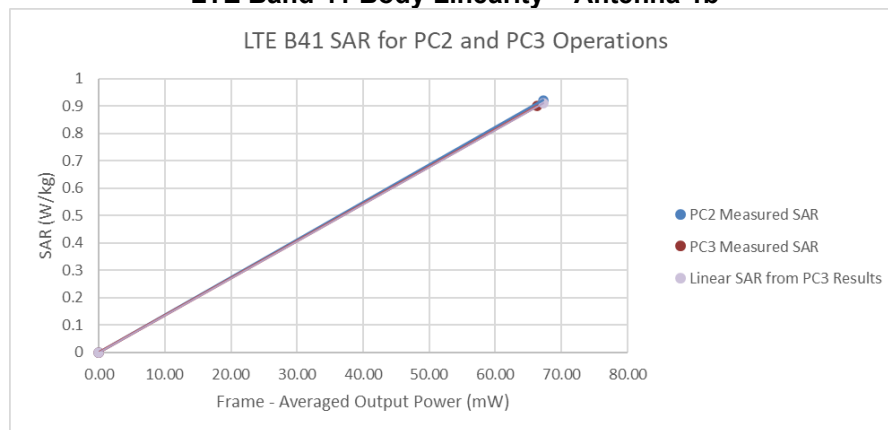
12.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.30	23.00
Measured Output Power (dBm)	20.20	21.91
Measured SAR (W/kg)	0.899	0.921
Measured Power (mW)	104.71	155.24
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	66.28	67.22
% deviation from expected linearity		1.02%

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



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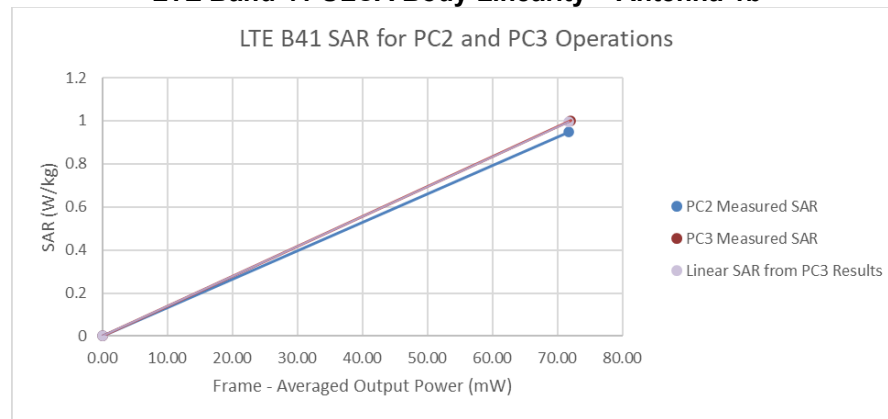
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Table 12-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.30	23.00
Measured Output Power (dBm)	20.56	22.19
Measured SAR (W/kg)	1.000	0.948
Measured Power (mW)	113.76	165.58
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	72.01	71.69
% deviation from expected linearity		-4.78%

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



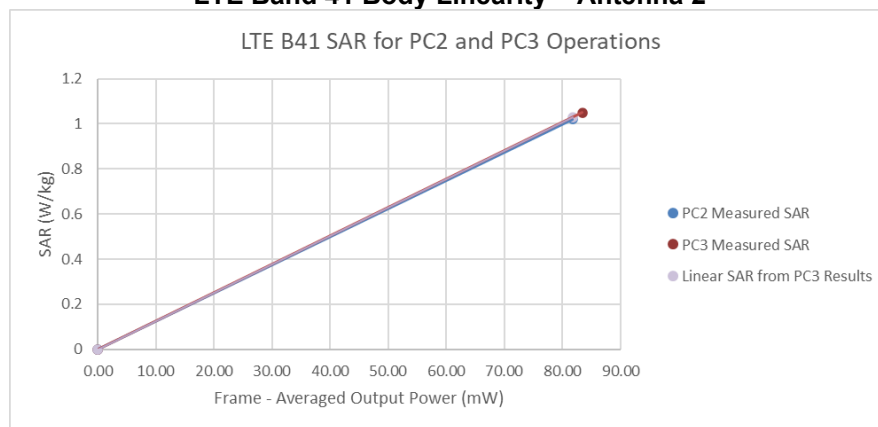
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Table 12-3
LTE Band 41 Body Linearity Data – Antenna 2

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.70	23.30
Measured Output Power (dBm)	21.20	22.76
Measured SAR (W/kg)	1.050	1.020
Measured Power (mW)	131.83	188.80
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	83.45	81.75
% deviation from expected linearity		-0.84%

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



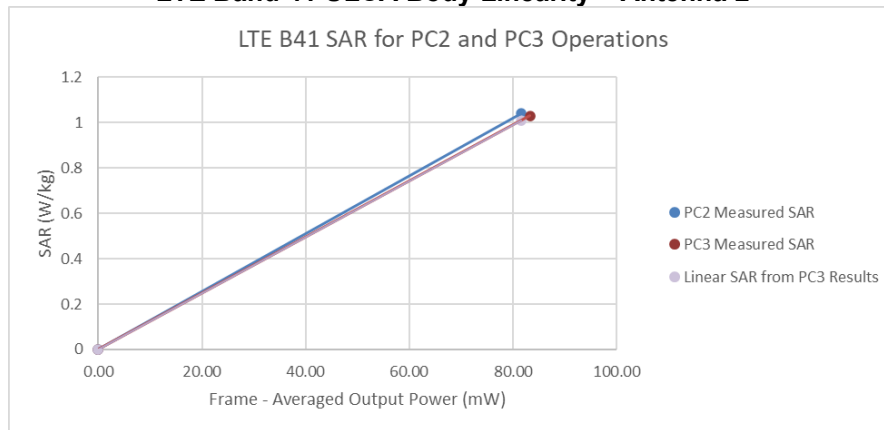
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Table 12-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.7	23.3
Measured Output Power (dBm)	21.19	22.75
Measured SAR (W/kg)	1.030	1.040
Measured Power (mW)	131.52	188.36
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	83.25	81.56
% deviation from expected linearity		3.07%

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



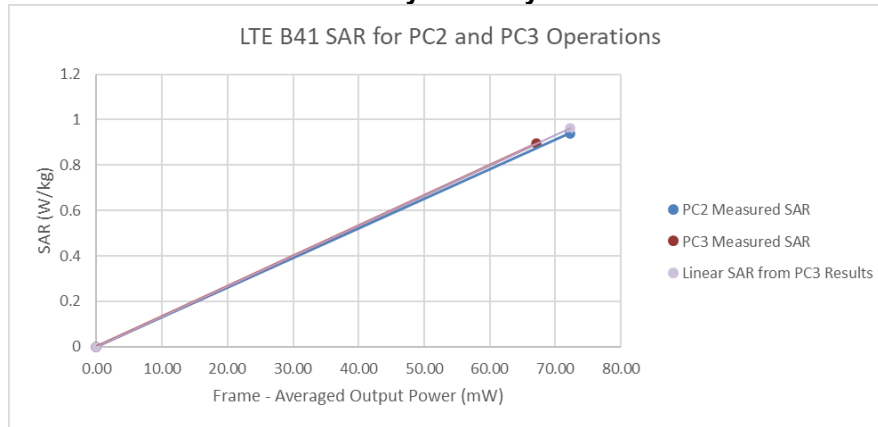
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Table 12-5
LTE Band 41 Body Linearity Data – Antenna 3b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.50	23.10
Measured Output Power (dBm)	20.25	22.22
Measured SAR (W/kg)	0.894	0.939
Measured Power (mW)	105.93	166.72
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	67.05	72.19
% deviation from expected linearity		-2.45%

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



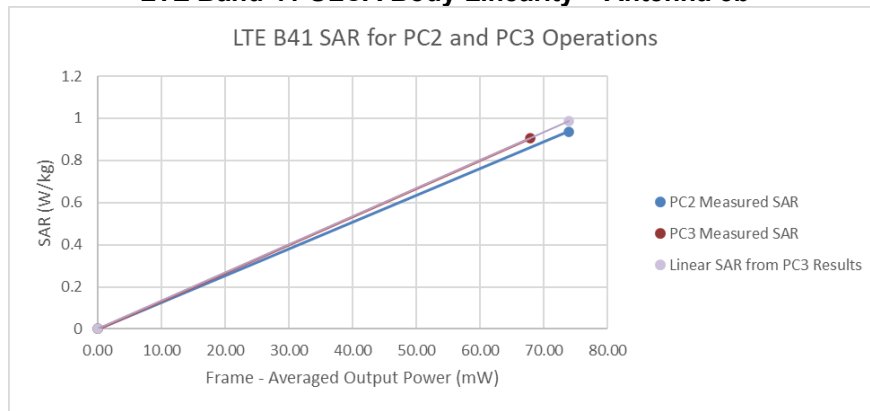
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Table 12-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.50	23.10
Measured Output Power (dBm)	20.30	22.32
Measured SAR (W/kg)	0.905	0.936
Measured Power (mW)	107.15	170.61
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	67.83	73.87
% deviation from expected linearity		-5.04%

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



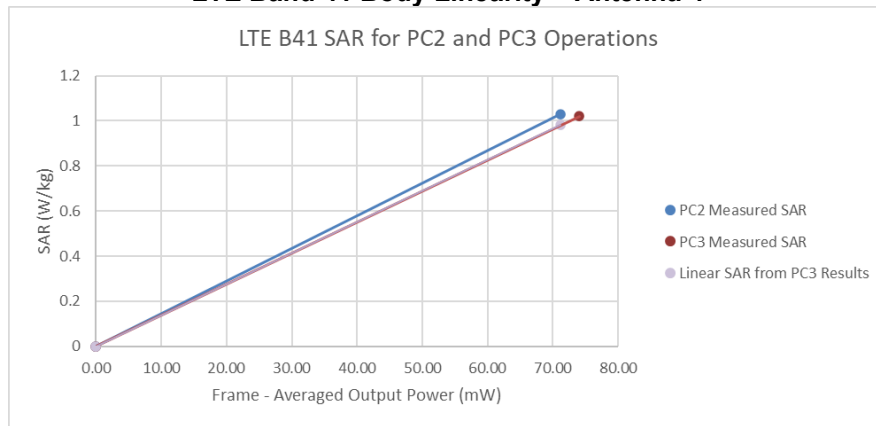
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Table 12-7
LTE Band 41 Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.20	22.80
Measured Output Power (dBm)	20.68	22.16
Measured SAR (W/kg)	1.020	1.030
Measured Power (mW)	116.95	164.44
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	74.03	71.20
% deviation from expected linearity		4.99%

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



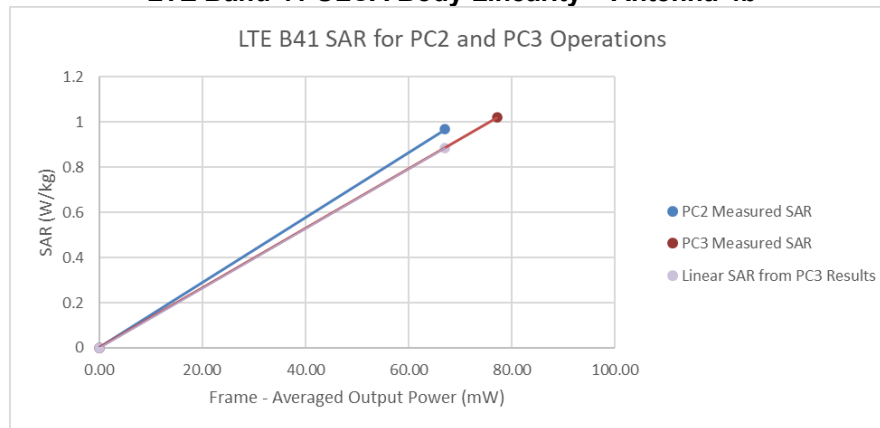
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Table 12-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.20	22.80
Measured Output Power (dBm)	20.86	21.90
Measured SAR (W/kg)	1.020	0.969
Measured Power (mW)	121.90	154.88
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	77.16	67.06
% deviation from expected linearity		9.30%

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



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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	5/12/2025	Annual	5/12/2026	MY45092678
Agilent	NS182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	5-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	8/21/2025	Annual	8/21/2026	1138001
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Anritsu	MA24106A	USB Power Sensor	4/28/2025	Annual	4/28/2026	1520501
Mini-Circuits	PWR-40HS	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
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	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	7/17/2025	Biennial	7/17/2027	250440182
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY4810233
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N60W5+	60B Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-600H+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-600H+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 3000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-5+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	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	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	168544
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2025	Annual	5/12/2026	1070
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	8/6/2025	Annual	8/6/2026	1004
SPEAG	CLA-13	13 MHz SAR Dipole	11/7/2025	Annual	11/7/2026	1004
SPEAG	D750V2	750 MHz SAR Dipole	5/9/2025	Annual	5/9/2026	1057
SPEAG	D835V2	835 MHz SAR Dipole	10/25/2024	Biennial	10/25/2026	40400
SPEAG	D835V2	835 MHz SAR Dipole	5/9/2025	Annual	5/9/2026	460
SPEAG	D1750V2	1750 MHz SAR Dipole	2/26/2025	Annual	2/26/2026	1083
SPEAG	D1750V2	1750 MHz SAR Dipole	11/19/2024	Annual	11/19/2025	1040
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2024	Biennial	10/23/2026	5d131
SPEAG	D2300V2	2300 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	855
SPEAG	D2600V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	6/10/2024	Biennial	6/10/2026	1126
SPEAG	D3500V2	3500 MHz SAR Dipole	8/5/2025	Annual	8/5/2026	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	6/10/2024	Biennial	6/10/2026	1097
SPEAG	D3900V2	3900 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1062
SPEAG	D5GHZV2	5 GHz SAR Dipole	11/8/2024	Biennial	11/8/2026	1066
SPEAG	D5GHZV2	5 GHz SAR Dipole	2/21/2025	Annual	2/21/2026	1163
SPEAG	D65GHZV2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2025	Annual	5/9/2026	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/8/2025	Annual	1/8/2026	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/13/2025	Annual	5/13/2026	1676
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/6/2025	Annual	8/6/2026	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2025	Annual	3/6/2026	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	534
SPEAG	ELumWV3	ELumWV3 Probe	6/11/2025	Annual	6/11/2026	9364
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7360
SPEAG	EX3DV4	SAR Probe	4/11/2025	Annual	4/11/2026	7357
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7312
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX3DV4	SAR Probe	5/9/2025	Annual	5/9/2026	7416
SPEAG	EX3DV4	SAR Probe	8/13/2025	Annual	8/13/2026	3837
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7638
SPEAG	EX3DV4	SAR Probe	1/14/2025	Annual	1/14/2026	7499
SPEAG	EX3DV4	SAR Probe	8/11/2025	Annual	8/11/2026	7668
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7421
SPEAG	EX3DV4	SAR Probe	5/14/2025	Annual	5/14/2026	7552
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7782

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

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14 MEASUREMENT UNCERTAINTIES

SAR Uncertainty Budget based on IEEE 1528-2013 (0.3 GHz to 10 GHz):

a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	9.30	N	1	1	1	9.30	9.30	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	4.27	N	1	0.78	0.71	3.33	3.03	55
Liquid permittivity measurement	E.3.3	4.18	N	1	0.23	0.26	0.96	1.09	55
Liquid conductivity - temperature uncertainty	E.3.4	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.60	R	1.73	0.23	0.26	0.08	0.09	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							13.1	12.9	150
Expanded uncertainty (95% confidence interval)							26.2	25.8	

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SAR Uncertainty Budget based on EEE 1528-2013 for Specific Phantom (0.3 GHz to 10 GHz):

a	b	c	d	e f(d,k)	f	g	h exf/e	i cxg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	9.30	N	1	1	1	9.30	9.30	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	0.00	R	1.73	1	1	0.00	0.00	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	1.25	R	1.73	1	1	0.72	0.72	∞
RF ambient conditions - reflections	E.6.1	1.25	R	1.73	1	1	0.72	0.72	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	6.70	R	1.73	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	15.00	R	1.73	1	1	8.66	8.66	∞
Test sample related									
Test sample positioning	E.4.2	0.50	N	1	1	1	0.50	0.50	5
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	0.00	R	1.73	1	1	0.00	0.00	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	6.20	R	1.73	1	1	3.58	3.58	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	4.27	N	1	0.78	0.71	3.33	3.03	55
Liquid permittivity measurement	E.3.3	4.18	N	1	0.23	0.26	0.96	1.09	55
Liquid conductivity - temperature uncertainty	E.3.4	1.70	R	1.73	0.78	0.71	0.77	0.70	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.30	R	1.73	0.23	0.26	0.04	0.05	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							15.0	14.8	120
Expanded uncertainty (95% confidence interval)							29.9	29.6	
Procedural Notes for Head-Stand and Face-Down Phantom (300 MHz–10 GHz)									
Procedures below must be applied before RF exposure testing to preserve the uncertainty budget.									
RF ambient conditions - noise and reflections: RF ambient/noise measured before each scan; contribution ≤ 0.005 W/kg, worst-case tolerance ± 1.25%.									
Liquid Temperature Uncertainty: Tissue liquid temperature maintained within ± 1 °C of dielectric verification; 50% of the ± 2 °C range from DASY tables applied. Worst-case contribution ± 1.68% (rectangular).									
Test sample positioning: Positioning repeatability checked by repeated placements; contribution ≤ 1.0% (IEC/IEEE 62209-1528 §8.4.2.5).									
Output power variation - SAR drift: Output drift verified by reference SAR checks pre/post scans (IEEE 1528-2013 §6.2.4; FCC KDB 865664 D01 §2.7.4). If negative, SAR scaled upward (measured SAR × 10^(absolute drift in dB / 10)). Positive drift not scaled; corrective action required if out of tolerance.									

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PD Uncertainty Budget based on IEC IEEE 63195-1 for PTP-PR IPD Measurement:

Symbol	Source of uncertainty	Description	Unc. $\pm$ dB	Prob. Dist.	Div. qi	ci	Standard uncertainty $\pm$ dB	vi
Uncertainty terms dependent on the measurement system								
CAL	Calibration	8.4.1	0.49	N	1	1	0.49	∞
COR	Probe correction	8.4.2	0.00	R	1.73	1	0.00	∞
FRS	Frequency response	8.4.3	0.20	R	1.73	1	0.12	∞
SCC	Sensor cross coupling	8.4.4	0.00	R	1.73	1	0.00	∞
ISO	Isotropy	8.4.5	0.50	R	1.73	1	0.29	∞
LIN	System linearity error	8.4.6	0.20	R	1.73	1	0.12	∞
PSC	Probe scattering	8.4.7	0.00	R	1.73	1	0.00	∞
PPO	Probe positioning offset	8.4.8	0.30	R	1.73	1	0.17	∞
PPR	Probe positioning repeatability	8.4.9	0.04	R	1.73	1	0.02	∞
SMO	Sensor mechanical offset	8.4.10	0.02	R	1.73	1	0.01	∞
PSR	Probe spatial resolution	8.4.11	0.00	R	1.73	1	0.00	∞
FLD	Field impedance dependence	8.4.12	0.00	R	1.73	1	0.00	∞
MED	Measurement drift	8.4.13	0.00	R	1.73	1	0.00	∞
APN	Amplitude and phase noise	8.4.14	0.04	R	1.73	1	0.02	∞
TR	Measurement area truncation	8.4.15	0.10	R	1.73	1	0.06	∞
DAQ	Data acquisition	8.4.16	0.03	N	1	1	0.03	∞
SMP	Sampling	8.4.17	0.00	R	1.73	1	0.00	∞
REC	Field reconstruction	8.4.18	1.77	R	1.73	1	1.02	∞
SNR	Signal-to-noise ratio	8.4.19	0.00	N	1	1	0.00	∞
TRA	Forward and backward transformation	8.4.20	0.70	R	1.73	1	0.40	∞
SCA	Power density scaling	8.4.21	0.00	R	1.73	1	0.00	∞
SAV	Spatial averaging	8.4.22	0.10	R	1.73	1	0.06	∞
COM	Exposure combining	8.4.23	0.00	N	1	1	0.00	∞
SDL	System detection limit		0.04	R	1.73	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors								
PC	Probe coupling with DUT	8.5.1	0.00	R	1.73	1	0.00	∞
MOD	Modulation response	8.5.2	0.40	R	1.73	1	0.23	∞
IT	Integration time	8.5.3	0.00	R	1.73	1	0.00	∞
RT	Response time	8.5.4	0.00	R	1.73	1	0.00	∞
DH	Device holder influence	8.5.5	0.10	R	1.73	1	0.06	∞
DA	DUT alignment	8.5.6	0.00	R	1.73	1	0.00	∞
AC	RF ambient conditions	8.5.7	0.04	R	1.73	1	0.02	∞
TEM	Laboratory temperature	8.5.8	0.00	R	1.73	1	0.00	∞
REF	Reflections in laboratory	8.5.9	0.04	R	1.73	1	0.02	∞
MSI	Immunity / secondary reception	8.5.10	0.00	R	1.73	1	0.00	∞
DRI	DUT drift	8.5.11	0.22	R	1.73	1	0.13	∞
u(ASAR)	Combined uncertainty	8.6					1.29	
U	Expanded uncertainty (95 % confidence interval)	8.6					2.59	

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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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