



Element Materials Technology

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RF EXPOSURE TEST REPORT

Applicant Name:
Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
05/08/2026 – 07/18/2026
Test Report Issue Date:
09/15/2026
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2604030026-29.BCG-R1

FCC ID: BCGA3596
APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Models: A3596, A3597

Frequency	Band & Mode	10 Frequency	10 Power
800	800-815 MHz	800-815 MHz	100W
800	815-830 MHz	815-830 MHz	100W
800	830-845 MHz	830-845 MHz	100W
800	845-860 MHz	845-860 MHz	100W
800	860-875 MHz	860-875 MHz	100W
800	875-890 MHz	875-890 MHz	100W
800	890-905 MHz	890-905 MHz	100W
800	905-920 MHz	905-920 MHz	100W
800	920-935 MHz	920-935 MHz	100W
800	935-950 MHz	935-950 MHz	100W
800	950-965 MHz	950-965 MHz	100W
800	965-980 MHz	965-980 MHz	100W
800	980-995 MHz	980-995 MHz	100W
800	995-1010 MHz	995-1010 MHz	100W
800	1010-1025 MHz	1010-1025 MHz	100W
800	1025-1040 MHz	1025-1040 MHz	100W
800	1040-1055 MHz	1040-1055 MHz	100W
800	1055-1070 MHz	1055-1070 MHz	100W
800	1070-1085 MHz	1070-1085 MHz	100W
800	1085-1100 MHz	1085-1100 MHz	100W
800	1100-1115 MHz	1100-1115 MHz	100W
800	1115-1130 MHz	1115-1130 MHz	100W
800	1130-1145 MHz	1130-1145 MHz	100W
800	1145-1160 MHz	1145-1160 MHz	100W
800	1160-1175 MHz	1160-1175 MHz	100W
800	1175-1190 MHz	1175-1190 MHz	100W
800	1190-1205 MHz	1190-1205 MHz	100W
800	1205-1220 MHz	1205-1220 MHz	100W
800	1220-1235 MHz	1220-1235 MHz	100W
800	1235-1250 MHz	1235-1250 MHz	100W
800	1250-1265 MHz	1250-1265 MHz	100W
800	1265-1280 MHz	1265-1280 MHz	100W
800	1280-1295 MHz	1280-1295 MHz	100W
800	1295-1310 MHz	1295-1310 MHz	100W
800	1310-1325 MHz	1310-1325 MHz	100W
800	1325-1340 MHz	1325-1340 MHz	100W
800	1340-1355 MHz	1340-1355 MHz	100W
800	1355-1370 MHz	1355-1370 MHz	100W
800	1370-1385 MHz	1370-1385 MHz	100W
800	1385-1400 MHz	1385-1400 MHz	100W
800	1400-1415 MHz	1400-1415 MHz	100W
800	1415-1430 MHz	1415-1430 MHz	100W
800	1430-1445 MHz	1430-1445 MHz	100W
800	1445-1460 MHz	1445-1460 MHz	100W
800	1460-1475 MHz	1460-1475 MHz	100W
800	1475-1490 MHz	1475-1490 MHz	100W
800	1490-1505 MHz	1490-1505 MHz	100W
800	1505-1520 MHz	1505-1520 MHz	100W
800	1520-1535 MHz	1520-1535 MHz	100W
800	1535-1550 MHz	1535-1550 MHz	100W
800	1550-1565 MHz	1550-1565 MHz	100W
800	1565-1580 MHz	1565-1580 MHz	100W
800	1580-1595 MHz	1580-1595 MHz	100W
800	1595-1610 MHz	1595-1610 MHz	100W
800	1610-1625 MHz	1610-1625 MHz	100W
800	1625-1640 MHz	1625-1640 MHz	100W
800	1640-1655 MHz	1640-1655 MHz	100W
800	1655-1670 MHz	1655-1670 MHz	100W
800	1670-1685 MHz	1670-1685 MHz	100W
800	1685-1700 MHz	1685-1700 MHz	100W
800	1700-1715 MHz	1700-1715 MHz	100W
800	1715-1730 MHz	1715-1730 MHz	100W
800	1730-1745 MHz	1730-1745 MHz	100W
800	1745-1760 MHz	1745-1760 MHz	100W
800	1760-1775 MHz	1760-1775 MHz	100W
800	1775-1790 MHz	1775-1790 MHz	100W
800	1790-1805 MHz	1790-1805 MHz	100W
800	1805-1820 MHz	1805-1820 MHz	100W
800	1820-1835 MHz	1820-1835 MHz	100W
800	1835-1850 MHz	1835-1850 MHz	100W
800	1850-1865 MHz	1850-1865 MHz	100W
800	1865-1880 MHz	1865-1880 MHz	100W
800	1880-1895 MHz	1880-1895 MHz	100W
800	1895-1910 MHz	1895-1910 MHz	100W
800	1910-1925 MHz	1910-1925 MHz	100W
800	1925-1940 MHz	1925-1940 MHz	100W
800	1940-1955 MHz	1940-1955 MHz	100W
800	1955-1970 MHz	1955-1970 MHz	100W
800	1970-1985 MHz	1970-1985 MHz	100W
800	1985-2000 MHz	1985-2000 MHz	100W
800	2000-2015 MHz	2000-2015 MHz	100W
800	2015-2030 MHz	2015-2030 MHz	100W
800	2030-2045 MHz	2030-2045 MHz	100W
800	2045-2060 MHz	2045-2060 MHz	100W
800	2060-2075 MHz	2060-2075 MHz	100W
800	2075-2090 MHz	2075-2090 MHz	100W
800	2090-2105 MHz	2090-2105 MHz	100W
800	2105-2120 MHz	2105-2120 MHz	100W
800	2120-2135 MHz	2120-2135 MHz	100W
800	2135-2150 MHz	2135-2150 MHz	100W
800	2150-2165 MHz	2150-2165 MHz	100W
800	2165-2180 MHz	2165-2180 MHz	100W
800	2180-2195 MHz	2180-2195 MHz	100W
800	2195-2210 MHz	2195-2210 MHz	100W
800	2210-2225 MHz	2210-2225 MHz	100W
800	2225-2240 MHz	2225-2240 MHz	100W
800	2240-2255 MHz	2240-2255 MHz	100W
800	2255-2270 MHz	2255-2270 MHz	100W
800	2270-2285 MHz	2270-2285 MHz	100W
800	2285-2300 MHz	2285-2300 MHz	100W
800	2300-2315 MHz	2300-2315 MHz	100W
800	2315-2330 MHz	2315-2330 MHz	100W
800	2330-2345 MHz	2330-2345 MHz	100W
800	2345-2360 MHz	2345-2360 MHz	100W
800	2360-2375 MHz	2360-2375 MHz	100W
800	2375-2390 MHz	2375-2390 MHz	100W
800	2390-2405 MHz	2390-2405 MHz	100W
800	2405-2420 MHz	2405-2420 MHz	100W
800	2420-2435 MHz	2420-2435 MHz	100W
800	2435-2450 MHz	2435-2450 MHz	100W
800	2450-2465 MHz	2450-2465 MHz	100W
800	2465-2480 MHz	2465-2480 MHz	100W
800	2480-2495 MHz	2480-2495 MHz	100W
800	2495-2510 MHz	2495-2510 MHz	100W
800	2510-2525 MHz	2510-2525 MHz	100W
800	2525-2540 MHz	2525-2540 MHz	100W
800	2540-2555 MHz	2540-2555 MHz	100W
800	2555-2570 MHz	2555-2570 MHz	100W
800	2570-2585 MHz	2570-2585 MHz	100W
800	2585-2600 MHz	2585-2600 MHz	100W
800	2600-2615 MHz	2600-2615 MHz	100W
800	2615-2630 MHz	2615-2630 MHz	100W
800	2630-2645 MHz	2630-2645 MHz	100W
800	2645-2660 MHz	2645-2660 MHz	100W
800	2660-2675 MHz	2660-2675 MHz	100W
800	2675-2690 MHz	2675-2690 MHz	100W
800	2690-2705 MHz	2690-2705 MHz	100W
800	2705-2720 MHz	2705-2720 MHz	100W
800	2720-2735 MHz	2720-2735 MHz	100W
800	2735-2750 MHz	2735-2750 MHz	100W
800	2750-2765 MHz	2750-2765 MHz	100W
800	2765-2780 MHz	2765-2780 MHz	100W
800	2780-2795 MHz	2780-2795 MHz	100W
800	2795-2810 MHz	2795-2810 MHz	100W
800	2810-2825 MHz	2810-2825 MHz	100W
800	2825-2840 MHz	2825-2840 MHz	100W
800	2840-2855 MHz	2840-2855 MHz	100W
800	2855-2870 MHz	2855-2870 MHz	100W
800	2870-2885 MHz	2870-2885 MHz	100W
800	2885-2900 MHz	2885-2900 MHz	100W
800	2900-2915 MHz	2900-2915 MHz	100W
800	2915-2930 MHz	2915-2930 MHz	100W
800	2930-2945 MHz	2930-2945 MHz	100W
800	2945-2960 MHz	2945-2960 MHz	100W
800	2960-2975 MHz	2960-2975 MHz	100W
800	2975-2990 MHz	2975-2990 MHz	100W
800	2990-3005 MHz	2990-3005 MHz	100W
800	3005-3020 MHz	3005-3020 MHz	100W
800	3020-3035 MHz	3020-3035 MHz	100W
800	3035-3050 MHz	3035-3050 MHz	100W
800	3050-3065 MHz	3050-3065 MHz	100W
800	3065-3080 MHz	3065-3080 MHz	100W
800	3080-3095 MHz	3080-3095 MHz	100W
800	3095-3110 MHz	3095-3110 MHz	100W
800	3110-3125 MHz	3110-3125 MHz	100W
800	3125-3140 MHz	3125-3140 MHz	100W
800	3140-3155 MHz	3140-3155 MHz	100W
800	3155-3170 MHz	3155-3170 MHz	100W
800	3170-3185 MHz	3170-3185 MHz	100W
800	3185-3200 MHz	3185-3200 MHz	100W
800	3200-3215 MHz	3200-3215 MHz	100W
800	3215-3230 MHz	3215-3230 MHz	100W
800	3230-3245 MHz	3230-3245 MHz	100W
800	3245-3260 MHz	3245-3260 MHz	100W
800	3260-3275 MHz	3260-3275 MHz	100W
800	3275-3290 MHz	3275-3290 MHz	100W
800	3290-3305 MHz	3290-3305 MHz	100W
800	3305-3320 MHz	3305-3320 MHz	100W
800	3320-3335 MHz	3320-3335 MHz	100W
800	3335-3350 MHz	3335-3350 MHz	100W
800	3350-3365 MHz	3350-3365 MHz	100W
800	3365-3380 MHz	3365-3380 MHz	100W
800	3380-3395 MHz	3380-3395 MHz	100W
800	3395-3410 MHz	3395-3410 MHz	100W
800	3410-3425 MHz	3410-3425 MHz	100W
800	3425-3440 MHz	3425-3440 MHz	100W
800	3440-3455 MHz	3440-3455 MHz	100W
800	3455-3470 MHz	3455-3470 MHz	100W
800	3470-3485 MHz	3470-3485 MHz	100W
800	3485-3500 MHz	3485-3500 MHz	100W
800	3500-3515 MHz	3500-3515 MHz	100W
800	3515-3530 MHz	3515-3530 MHz	100W
800	3530-3545 MHz	3530-3545 MHz	100W
800	3545-3560 MHz	3545-3560 MHz	100W
800	3560-3575 MHz	3560-3575 MHz	100W
800	3575-3590 MHz	3575-3590 MHz	100W
800	3590-3605 MHz	3590-3605 MHz	100W
800	3605-3620 MHz	3605-3620 MHz	100W
800	3620-3635 MHz	3620-3635 MHz	100W
800	3635-3650 MHz	3635-3650 MHz	100W
800	3650-3665 MHz	3650-3665 MHz	100W
800	3665-3680 MHz	3665-3680 MHz	100W
800	3680-3695 MHz	3680-3695 MHz	100W
800	3695-3710 MHz	3695-3710 MHz	100W
800	3710-3725 MHz	3710-3725 MHz	100W
800	3725-3740 MHz	3725-3740 MHz	100W
800	3740-3755 MHz	3740-3755 MHz	100W
800	3755-3770 MHz	3755-3770 MHz	100W
800	3770-3785 MHz	3770-3785 MHz	100W
800	3785-3800 MHz	3785-3800 MHz	100W
800	3800-3815 MHz	3800-3815 MHz	100W
800	3815-3830 MHz	3815-3830 MHz	100W
800	3830-3845 MHz	3830-3845 MHz	100W
800	3845-3860 MHz	3845-3860 MHz	100W
800	3860-3875 MHz	3860-3875 MHz	100W
800	3875-3890 MHz	3875-3890 MHz	100W
800	3890-3905 MHz	3890-3905 MHz	100W
800	3905-3920 MHz	3905-3920 MHz	100W
800	3920-3935 MHz	3920-3935 MHz	100W
800	3935-3950 MHz	3935-3950 MHz	100W
800	3950-3965 MHz	3950-3965 MHz	100W
800	3965-3980 MHz	3965-3980 MHz	100W
800	3980-3995 MHz	3980-3995 MHz	100W
800	3995-4010 MHz	3995-4010 MHz	100W
800	4010-4025 MHz	4010-4025 MHz	100W
800	4025-4040 MHz	4025-4040 MHz	100W
800	4040-4055 MHz	4040-4055 MHz	100W
800	4055-4070 MHz	4055-4070 MHz	100W
800	4070-4085 MHz	4070-4085 MHz	100W
800	4085-4100 MHz	4085-4100 MHz	100W
800	4100-4115 MHz	4100-4115 MHz	100W
800	4115-4130 MHz	4115-4130 MHz	100W
800	4130-4145 MHz	4130-4145 MHz	100W
800	4145-4160 MHz	4145-4160 MHz	100W
800	4160-4175 MHz	4160-4175 MHz	100W
800	4175-4190 MHz	4175-4190 MHz	100W
800	4190-4205 MHz	4190-4205 MHz	100W
800	4205-4220 MHz	4205-4220 MHz	100W
800	4220-4235 MHz	4220-4235 MHz	100W
800	4235-4250 MHz	4235-4250 MHz	100W
800	4250-4265 MHz	4250-4265 MHz	

Revision Summary

Revision	Description	Issue Date	Revised By
-	Initial Release	08/05/2026	WKR0000009754
R1	Addressed Applicant's Comments	08/21/2026	WKR0000009754

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 106	Data	896.7 - 900.3 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	2505.0 - 2685.0 MHz
NR Band n48	Data	3550 - 3700 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77	Data	3705.0 - 3975.0 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz; U-NII-2A: 5260 - 5320 MHz; U-NII-2C: 5500 - 5720 MHz; U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz; U-NII-6: 6435 - 6515 MHz; U-NII-7: 6535 - 6875 MHz; U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB 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 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 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 reports include 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 define 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 TDD Band 48 - [Ch. 55340 - 55773]	0.98	1.2 W/kg	1.6 W/kg
LTE TDD Band 48 Intra-band ULCA - [Ch. 55340 - 55773]	0.98		
LTE TDD Band 48 - [Ch. 56207 - 56640]	0.97		
LTE TDD Band 48 Intra-band ULCA - [Ch. 56207 - 56640]	0.97		
NR TDD Band n48 - [Ch. 638000 - 641666]	0.93		
NR TDD Band n48 - [Ch. 645332]	0.94		
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	0.99		
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	0.99		
NR TDD Band n77 DoD (PC3) - [Ch. 639334]	0.95		
NR TDD Band n77 DoD (PC2) - [Ch. 639334]	0.95		
NR TDD Band n77 (PC3) - [Ch. 650000]	0.96		
NR TDD Band n77 (PC2) - [Ch. 650000]	0.96		
NR TDD Band n77 (PC3) - [Ch. 662000]	0.92		
NR TDD Band n77 (PC2) - [Ch. 662000]	0.92		

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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 Band 4 (1750 MHz)	0.95	1.2 W/kg	1.6 W/kg
UMTS Band 2 (1900 MHz)	0.96		
LTE FDD Band 4	0.95		
LTE FDD Band 66 - [Ch. 132072 - 132322]	0.95		
LTE FDD Band 66 - [Ch. 132572]	0.96		
LTE FDD Band 2	0.96		
LTE FDD Band 25	0.96		
LTE FDD Band 30	1.00		
LTE FDD Band 7	0.97		
LTE FDD Band 7 Intra-band ULCA	0.97		
LTE TDD Band 41 (PC3) - [Ch. 39750]	0.97		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 39750]	0.97		
LTE TDD Band 41 (PC2) - [Ch. 39750]	0.97		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 39750]	0.97		
LTE TDD Band 41 (PC3) - [Ch. 40185 - 40620]	0.97		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 40185 - 40620]	0.97		
LTE TDD Band 41 (PC2) - [Ch. 40185 - 40620]	0.97		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 40185 - 40620]	0.97		
LTE TDD Band 41 (PC3) - [Ch. 41055]	0.93		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41055]	0.93		
LTE TDD Band 41 (PC2) - [Ch. 41055]	0.93		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41055]	0.93		
LTE TDD Band 41 (PC3) - [Ch. 41490]	0.93		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41490]	0.93		
LTE TDD Band 41 (PC2) - [Ch. 41490]	0.93		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41490]	0.93		
NR FDD Band n70	1.01		
NR FDD Band n66 - [Ch. 346500 - 349000]	0.99		
NR FDD Band n66 - [Ch. 351500]	0.95		
NR FDD Band n2	0.96		
NR FDD Band n25	0.96		
NR FDD Band n30	1.00		
NR FDD Band n7	1.00		
NR TDD Band n41 (PC3) - [Ch. 509202 - 518598]	0.88		
NR TDD Band n41 (PC2) - [Ch. 509202 - 518598]	0.88		
NR TDD Band n41 (PC3) - [Ch. 528000]	0.91		
NR TDD Band n41 (PC2) - [Ch. 528000]	0.91		

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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 Band 4 (1750 MHz)	1.00	1.2 W/kg	1.6 W/kg
UMTS Band 2 (1900 MHz)	1.01		
LTE FDD Band 4	1.00		
LTE FDD Band 66 - [Ch. 132072 - 132322]	1.00		
LTE FDD Band 66 - [Ch. 132572]	1.01		
LTE FDD Band 2	1.01		
LTE FDD Band 25	1.01		
LTE FDD Band 30	1.05		
LTE FDD Band 7	0.98		
LTE FDD Band 7 Intra-band ULCA	0.98		
LTE TDD Band 41 (PC3) - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC2) - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC3) - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC2) - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC3) - [Ch. 41055]	0.97		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41055]	0.97		
LTE TDD Band 41 (PC2) - [Ch. 41055]	0.97		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41055]	0.97		
LTE TDD Band 41 (PC3) - [Ch. 41490]	0.97		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41490]	0.97		
LTE TDD Band 41 (PC2) - [Ch. 41490]	0.97		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41490]	0.97		
LTE TDD Band 48 - [Ch. 55340 - 55773]	0.92		
LTE TDD Band 48 Intra-band ULCA - [Ch. 55340 - 55773]	0.92		
LTE TDD Band 48 - [Ch. 56207 - 56640]	0.89		
LTE TDD Band 48 Intra-band ULCA - [Ch. 56207 - 56640]	0.89		
NR FDD Band n70	0.97		
NR FDD Band n66 - [Ch. 346500 - 349000]	0.95		
NR FDD Band n66 - [Ch. 351500]	0.93		
NR FDD Band n2	1.00		
NR FDD Band n25	1.00		
NR FDD Band n30	1.05		
NR FDD Band n7	0.95		
NR TDD Band n41 (PC3) - [Ch. 509202 - 518598]	0.90		
NR TDD Band n41 (PC2) - [Ch. 509202 - 518598]	0.90		
NR TDD Band n41 (PC3) - [Ch. 528000]	0.96		
NR TDD Band n41 (PC2) - [Ch. 528000]	0.96		
NR TDD Band n48 - [Ch. 638000 - 641666]	0.89		
NR TDD Band n48 - [Ch. 645332]	0.90		
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	0.83		
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	0.83		
NR TDD Band n77 DoD (PC3) - [Ch. 639334]	0.94		
NR TDD Band n77 DoD (PC2) - [Ch. 639334]	0.94		
NR TDD Band n77 (PC3) - [Ch. 650000]	0.88		
NR TDD Band n77 (PC2) - [Ch. 650000]	0.88		
NR TDD Band n77 (PC3) - [Ch. 662000]	0.73		
NR TDD Band n77 (PC2) - [Ch. 662000]	0.73		

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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
UMTS Band 4 (1750 MHz)	1.01	1.2 W/kg	1.6 W/kg
UMTS Band 2 (1900 MHz)	0.98		
LTE FDD Band 4	1.04		
LTE FDD Band 66 - [Ch. 132072 - 132322]	1.04		
LTE FDD Band 66 - [Ch. 132572]	1.01		
LTE FDD Band 2	0.98		
LTE FDD Band 25	0.98		
LTE FDD Band 30	1.00		
LTE FDD Band 7	0.94		
LTE FDD Band 7 Intra-band ULCA	0.94		
LTE TDD Band 41 (PC3) - [Ch. 39750]	0.94		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 39750]	0.94		
LTE TDD Band 41 (PC2) - [Ch. 39750]	0.94		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 39750]	0.94		
LTE TDD Band 41 (PC3) - [Ch. 40185 - 40620]	0.94		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 40185 - 40620]	0.94		
LTE TDD Band 41 (PC2) - [Ch. 40185 - 40620]	0.94		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 40185 - 40620]	0.94		
LTE TDD Band 41 (PC3) - [Ch. 41055]	0.96		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41055]	0.96		
LTE TDD Band 41 (PC2) - [Ch. 41055]	0.96		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41055]	0.96		
LTE TDD Band 41 (PC3) - [Ch. 41490]	0.96		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41490]	0.96		
LTE TDD Band 41 (PC2) - [Ch. 41490]	0.96		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41490]	0.96		
NR FDD Band n70	0.97		
NR FDD Band n66 - [Ch. 346500 - 349000]	0.94		
NR FDD Band n66 - [Ch. 351500]	0.98		
NR FDD Band n2	0.97		
NR FDD Band n25	0.97		
NR FDD Band n30	1.01		
NR FDD Band n7	0.94		
NR TDD Band n41 (PC3) - [Ch. 509202 - 518598]	0.90		
NR TDD Band n41 (PC2) - [Ch. 509202 - 518598]	0.90		
NR TDD Band n41 (PC3) - [Ch. 528000]	0.94		
NR TDD Band n41 (PC2) - [Ch. 528000]	0.94		

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**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 Band 5 (850 MHz)	1.08	1.2 W/kg	1.6 W/kg
LTE FDD Band 71	1.02		
LTE FDD Band 12	1.01		
LTE FDD Band 17	1.01		
LTE FDD Band 13	1.03		
LTE FDD Band 14	1.02		
LTE FDD Band 26	1.02		
LTE FDD Band 5	1.08		
LTE FDD Band 5 Intra-band ULCA	1.08		
LTE FDD Band 106	1.08		
LTE TDD Band 48 - [Ch. 55340 - 55773]	0.94		
LTE TDD Band 48 Intra-band ULCA - [Ch. 55340 - 55773]	0.94		
LTE TDD Band 48 - [Ch. 56207 - 56640]	0.88		
LTE TDD Band 48 Intra-band ULCA - [Ch. 56207 - 56640]	0.88		
NR FDD Band n71	1.00		
NR FDD Band n12	0.98		
NR FDD Band n14	1.00		
NR FDD Band n26	1.04		
NR FDD Band n5	1.03		
NR TDD Band n48 - [Ch. 638000 - 641666]	0.97		
NR TDD Band n48 - [Ch. 645332]	0.91		
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	0.90		
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	0.90		
NR TDD Band n77 DoD (PC3) - [Ch. 639334]	0.93		
NR TDD Band n77 DoD (PC2) - [Ch. 639334]	0.93		
NR TDD Band n77 (PC3) - [Ch. 650000]	0.92		
NR TDD Band n77 (PC2) - [Ch. 650000]	0.92		
NR TDD Band n77 (PC3) - [Ch. 662000]	0.84		
NR TDD Band n77 (PC2) - [Ch. 662000]	0.84		

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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 Band 5 (850 MHz)	1.04	1.2 W/kg	1.6 W/kg
UMTS Band 4 (1750 MHz)	0.91		
UMTS Band 2 (1900 MHz)	1.01		
LTE FDD Band 71	0.94		
LTE FDD Band 12	0.95		
LTE FDD Band 17	0.95		
LTE FDD Band 13	1.03		
LTE FDD Band 14	1.03		
LTE FDD Band 26	1.02		
LTE FDD Band 5	1.04		
LTE FDD Band 5 Intra-band ULCA	1.04		
LTE FDD Band 106	1.04		
LTE FDD Band 4	0.92		
LTE FDD Band 66 - [Ch. 132072 - 132322]	0.92		
LTE FDD Band 66 - [Ch. 132572]	0.91		
LTE FDD Band 2	1.01		
LTE FDD Band 25	1.01		
LTE FDD Band 30	0.94		
LTE FDD Band 7	0.96		
LTE FDD Band 7 Intra-band ULCA	0.96		
LTE TDD Band 41 (PC3) - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC2) - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 39750]	0.96		
LTE TDD Band 41 (PC3) - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC2) - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 40185 - 40620]	0.96		
LTE TDD Band 41 (PC3) - [Ch. 41055]	0.85		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41055]	0.85		
LTE TDD Band 41 (PC2) - [Ch. 41055]	0.85		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41055]	0.85		
LTE TDD Band 41 (PC3) - [Ch. 41490]	0.85		
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41490]	0.85		
LTE TDD Band 41 (PC2) - [Ch. 41490]	0.85		
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41490]	0.85		
LTE TDD Band 48 - [Ch. 55340 - 55773]	0.93		
LTE TDD Band 48 Intra-band ULCA - [Ch. 55340 - 55773]	0.93		
LTE TDD Band 48 - [Ch. 56207 - 56640]	0.95		
LTE TDD Band 48 Intra-band ULCA - [Ch. 56207 - 56640]	0.95		
NR FDD Band n71	0.92		
NR FDD Band n12	0.92		
NR FDD Band n14	1.03		
NR FDD Band n26	1.03		
NR FDD Band n5	1.03		
NR FDD Band n70	1.01		
NR FDD Band n66 - [Ch. 346500 - 349000]	0.94		
NR FDD Band n66 - [Ch. 351500]	0.88		
NR FDD Band n2	0.97		
NR FDD Band n25	0.97		
NR FDD Band n30	0.95		
NR FDD Band n7	0.94		
NR TDD Band n41 (PC3) - [Ch. 509202 - 518598]	0.94		
NR TDD Band n41 (PC2) - [Ch. 509202 - 518598]	0.94		
NR TDD Band n41 (PC3) - [Ch. 528000]	0.81		
NR TDD Band n41 (PC2) - [Ch. 528000]	0.81		
NR TDD Band n48 - [Ch. 638000 - 641666]	0.89		
NR TDD Band n48 - [Ch. 645332]	0.91		
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	0.91		
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	0.91		
NR TDD Band n77 DoD (PC3) - [Ch. 639334]	0.88		
NR TDD Band n77 DoD (PC2) - [Ch. 639334]	0.88		
NR TDD Band n77 (PC3) - [Ch. 650000]	0.89		
NR TDD Band n77 (PC2) - [Ch. 650000]	0.89		
NR TDD Band n77 (PC3) - [Ch. 662000]	0.88		
NR TDD Band n77 (PC2) - [Ch. 662000]	0.88		

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Exposure Scenario:	Ant 1a	Ant 1a	Ant 1b	Ant 1b	Ant 2	Ant 2	Ant 3a	Ant 3a	Ant 3b	Ant 3b	Ant 4	Ant 4
Averaging Volume:	1g	Maximum	1g	Maximum	1g	Maximum	1g	Maximum	1g	Maximum	1g	Maximum
Test Distance:	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
OBD:	1, Body	Power*	1, Body	Power*	1, Body	Power*	1, Body	Power*	1, Body	Power*	1, Body	Power*
Technology/Band	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)	Plimit (Inclusive of Total Device Uncertainty)	Pmax (Max Allowed Power)
UMTS Band 5 (850 MHz)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UMTS Band 4 (1750 MHz)	N/A	N/A	19.90	25.70	25.70	25.70	21.80	25.70	N/A	N/A	23.90	25.70
UMTS Band 2 (1900 MHz)	N/A	N/A	18.80	25.70	19.20	25.20	21.90	25.20	N/A	N/A	17.50	25.70
LTE FDD Band 71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.70	25.70
LTE FDD Band 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.90	25.70
LTE FDD Band 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.90	25.70
LTE FDD Band 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.60	25.70
LTE FDD Band 14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.60	25.70
LTE FDD Band 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.50	25.70
LTE FDD Band 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.60	25.70
LTE FDD Band 5 Intra-band ULCA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.60	25.70
LTE FDD Band 106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.90	25.70
LTE FDD Band 4	N/A	N/A	20.00	25.70	25.40	25.70	21.30	25.70	N/A	N/A	23.40	25.70
LTE FDD Band 66 - [Ch. 132072 - 132322]	N/A	N/A	20.00	25.70	25.40	25.70	21.30	25.70	N/A	N/A	23.40	25.70
LTE FDD Band 66 - [Ch. 132572]	N/A	N/A	19.90	25.70	25.70	25.70	21.90	25.70	N/A	N/A	23.20	25.70
LTE FDD Band 2	N/A	N/A	18.30	25.70	18.90	25.20	21.20	25.20	N/A	N/A	17.50	25.70
LTE FDD Band 25	N/A	N/A	18.30	25.70	18.90	25.20	21.20	25.20	N/A	N/A	17.50	25.70
LTE FDD Band 30	N/A	N/A	18.90	25.70	16.70	23.20	19.90	22.70	N/A	N/A	19.00	22.20
LTE FDD Band 7	N/A	N/A	20.20	25.70	19.00	24.70	19.80	24.70	N/A	N/A	16.80	25.70
LTE FDD Band 7 Intra-band ULCA	N/A	N/A	20.20	25.70	19.00	24.70	19.80	24.70	N/A	N/A	16.80	25.70
LTE TDD Band 41 (PC3) - [Ch. 39750]	N/A	N/A	20.1	23.7	19.5	23.7	20.3	23.7	N/A	N/A	17.2	23.7
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 39750]	N/A	N/A	20.1	23.7	19.5	23.7	20.3	23.7	N/A	N/A	17.2	23.7
LTE TDD Band 41 (PC2) - [Ch. 39750]	N/A	N/A	20.1	24.1	19.5	24.1	20.3	23.6	N/A	N/A	17.2	23.6
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 39750]	N/A	N/A	20.1	24.1	19.5	24.1	20.3	23.6	N/A	N/A	17.2	23.6
LTE TDD Band 41 (PC3) - [Ch. 40185 - 40620]	N/A	N/A	20.1	23.7	19.5	23.7	20.3	23.7	N/A	N/A	17.2	23.7
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 40185 - 40620]	N/A	N/A	20.1	23.7	19.5	23.7	20.3	23.7	N/A	N/A	17.2	23.7
LTE TDD Band 41 (PC2) - [Ch. 40185 - 40620]	N/A	N/A	20.1	25.1	19.5	25.1	20.3	25.1	N/A	N/A	17.2	24.6
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 40185 - 40620]	N/A	N/A	20.1	25.1	19.5	25.1	20.3	25.1	N/A	N/A	17.2	24.6
LTE TDD Band 41 (PC3) - [Ch. 41055]	N/A	N/A	21.0	23.7	19.4	23.7	20.9	23.7	N/A	N/A	21.1	23.7
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41055]	N/A	N/A	21.0	23.7	19.4	23.7	20.9	23.7	N/A	N/A	21.1	23.7
LTE TDD Band 41 (PC2) - [Ch. 41055]	N/A	N/A	21.0	25.1	19.4	25.1	20.9	25.1	N/A	N/A	21.1	24.6
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41055]	N/A	N/A	21.0	25.1	19.4	25.1	20.9	25.1	N/A	N/A	21.1	24.6
LTE TDD Band 41 (PC3) - [Ch. 41490]	N/A	N/A	21.0	23.7	19.4	23.7	20.9	23.7	N/A	N/A	21.1	23.7
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41490]	N/A	N/A	21.0	23.7	19.4	23.7	20.9	23.7	N/A	N/A	21.1	23.7
LTE TDD Band 41 (PC2) - [Ch. 41490]	N/A	N/A	21.0	24.1	19.4	24.1	20.9	24.1	N/A	N/A	21.1	23.6
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41490]	N/A	N/A	21.0	24.1	19.4	24.1	20.9	24.1	N/A	N/A	21.1	23.6
LTE TDD Band 48 - [Ch. 55340 - 55773]	18.3	18.3	N/A	N/A	17.3	17.3	N/A	N/A	19.6	19.6	18.4	18.4
LTE TDD Band 48 Intra-band ULCA - [Ch. 55340 - 55773]	18.3	18.3	N/A	N/A	17.3	17.3	N/A	N/A	19.6	19.6	18.4	18.4
LTE TDD Band 48 - [Ch. 56207 - 56640]	18.3	18.3	N/A	N/A	17.3	17.3	N/A	N/A	19.6	19.6	18.4	18.4
LTE TDD Band 48 Intra-band ULCA - [Ch. 56207 - 56640]	18.3	18.3	N/A	N/A	17.3	17.3	N/A	N/A	19.6	19.6	18.4	18.4
NR FDD Band n71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.10	25.70	23.90	25.70
NR FDD Band n12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.00	25.70	23.10	25.70
NR FDD Band n14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.60	25.70	23.80	25.70
NR FDD Band n26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.50	25.70	24.40	25.70
NR FDD Band n5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.80	25.70	24.00	25.70
NR FDD Band n70	N/A	N/A	20.60	25.70	20.00	25.70	22.10	25.70	N/A	N/A	21.80	25.70
NR FDD Band n66 - [Ch. 346500 - 349000]	N/A	N/A	20.10	25.70	25.30	25.70	21.30	25.70	N/A	N/A	23.00	25.70
NR FDD Band n66 - [Ch. 351500]	N/A	N/A	19.50	25.70	25.30	25.70	21.10	25.70	N/A	N/A	23.90	25.70
NR FDD Band n2	N/A	N/A	18.40	25.70	18.80	25.20	21.00	25.20	N/A	N/A	17.50	25.70
NR FDD Band n25	N/A	N/A	18.40	25.70	18.80	25.20	21.00	25.20	N/A	N/A	17.50	25.70
NR FDD Band n30	N/A	N/A	19.00	25.70	16.90	23.20	19.60	22.70	N/A	N/A	16.80	22.20
NR FDD Band n7	N/A	N/A	20.10	25.70	18.90	24.70	20.50	24.70	N/A	N/A	16.80	25.70
NR TDD Band n41 (PC3) - [Ch. 509202 - 518598]	N/A	N/A	20.10	25.70	19.70	25.70	20.30	25.70	N/A	N/A	17.80	25.70
NR TDD Band n41 (PC2) - [Ch. 509202 - 518598]	N/A	N/A	20.10	26.70	19.70	26.70	20.30	26.70	N/A	N/A	17.80	28.20
NR TDD Band n41 (PC3) - [Ch. 528000]	N/A	N/A	20.70	25.70	19.40	25.70	21.00	25.70	N/A	N/A	20.70	25.70
NR TDD Band n41 (PC2) - [Ch. 528000]	N/A	N/A	20.70	26.70	19.40	26.70	21.00	26.70	N/A	N/A	20.70	28.20
NR TDD Band n48 - [Ch. 638000 - 641666]	19.70	20.30	N/A	N/A	18.00	19.30	N/A	N/A	21.60	21.60	18.40	20.40
NR TDD Band n48 - [Ch. 645332]	19.80	20.30	N/A	N/A	19.30	19.30	N/A	N/A	21.60	21.60	19.60	20.40
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	20.10	26.00	N/A	N/A	18.70	26.00	N/A	N/A	21.40	26.00	19.30	26.00
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	20.10	27.00	N/A	N/A	18.70	26.20	N/A	N/A	21.40	27.00	19.30	27.10
NR TDD Band n77 DoD (PC3) - [Ch. 639334]	19.40	26.00	N/A	N/A	18.50	26.00	N/A	N/A	21.30	26.00	19.50	26.00
NR TDD Band n77 DoD (PC2) - [Ch. 639334]	19.40	27.00	N/A	N/A	18.50	26.20	N/A	N/A	21.30	27.00	19.50	27.10
NR TDD Band n77 (PC3) - [Ch. 650000]	18.90	26.00	N/A	N/A	21.50	26.00	N/A	N/A	21.80	26.00	20.00	26.00
NR TDD Band n77 (PC2) - [Ch. 650000]	18.90	27.00	N/A	N/A	21.50	26.20	N/A	N/A	21.80	27.00	20.00	27.10
NR TDD Band n77 (PC3) - [Ch. 662000]	19.80	26.00	N/A	N/A	20.90	26.00	N/A	N/A	20.70	26.00	20.50	26.00
NR TDD Band n77 (PC2) - [Ch. 662000]	19.80	27.00	N/A	N/A	20.90	26.20	N/A	N/A	20.70	27.00	20.50	27.10

*Note all Plimit EFS and maximum tune up output power Pmax 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 Bands**

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 Rel99					21.60	24.70
	Nominal						21.20	24.10
	Max allowed power	3GPP HSDPA Rel 5					21.60	24.70
	Nominal						21.20	24.10
	Max allowed power	3GPP HSUPA Rel 6					21.60	24.70
	Nominal						21.20	24.10
	Max allowed power	3GPP DC-HSDPA Rel 8					21.60	24.70
	Nominal						21.20	24.10
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA Rel99		19.90	25.70	21.80		23.90
	Nominal			19.00	24.90	21.20		22.70
	Max allowed power	3GPP HSDPA Rel 5		19.90	25.70	21.80		23.90
	Nominal			19.00	24.90	21.20		22.70
	Max allowed power	3GPP HSUPA Rel 6		19.90	25.70	21.80		23.90
	Nominal			19.00	24.90	21.20		22.70
	Max allowed power	3GPP DC-HSDPA Rel 8		19.90	25.70	21.80		23.90
	Nominal			19.00	24.90	21.20		22.70
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA Rel99		18.80	19.20	21.90		17.50
	Nominal			17.80	18.50	21.10		16.80
	Max allowed power	3GPP HSDPA Rel 5		18.80	19.20	21.90		17.50
	Nominal			17.80	18.50	21.10		16.80
	Max allowed power	3GPP HSUPA Rel 6		18.80	19.20	21.90		17.50
	Nominal			17.80	18.50	21.10		16.80
	Max allowed power	3GPP DC-HSDPA Rel 8		18.80	19.20	21.90		17.50
	Nominal			17.80	18.50	21.10		16.80

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**Table 1-8
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					21.70	23.50
	Nominal					21.00	22.50
LTE FDD Band 12	Max allowed power					21.90	23.50
	Nominal					21.20	22.50
LTE FDD Band 17	Max allowed power					21.90	23.50
	Nominal					21.20	22.50
LTE FDD Band 13	Max allowed power					21.60	23.40
	Nominal					21.00	22.70
LTE FDD Band 14	Max allowed power					21.60	23.90
	Nominal					20.90	23.30
LTE FDD Band 26	Max allowed power					21.50	23.90
	Nominal					20.80	23.20
LTE FDD Band 5	Max allowed power					21.60	23.80
	Nominal					21.20	23.20
LTE FDD Band 5 Intra-band ULCA	Max allowed power					21.60	23.80
	Nominal					21.20	23.20
LTE FDD Band 106	Max allowed power					22.90	24.00
	Nominal					22.50	23.40
LTE FDD Band 4	Max allowed power	20.00	25.40	21.30			23.40
	Nominal	19.00	24.60	20.70			22.30
LTE FDD Band 66 - [Ch. 132072 - 132322]	Max allowed power	20.00	25.40	21.30			23.40
	Nominal	19.00	24.60	20.70			22.30
LTE FDD Band 66 - [Ch. 132572]	Max allowed power	19.90	25.70	21.90			23.20
	Nominal	19.00	25.00	21.20			22.00
LTE FDD Band 2	Max allowed power	18.30	18.90	21.20			17.50
	Nominal	17.30	18.20	20.40			16.80
LTE FDD Band 25	Max allowed power	18.30	18.90	21.20			17.50
	Nominal	17.30	18.20	20.40			16.80
LTE FDD Band 30	Max allowed power	18.90	16.70	19.90			19.00
	Nominal	18.20	16.20	19.10			17.90
LTE FDD Band 7	Max allowed power	20.20	19.00	19.80			16.80
	Nominal	19.30	18.10	18.80			15.90
LTE FDD Band 7 Intra-band ULCA	Max allowed power	20.20	19.00	19.80			16.80
	Nominal	19.30	18.10	18.80			15.90
LTE TDD Band 41 (PC3) - [Ch. 39750]	Max allowed power	22.10	21.50	22.30			19.20
	Nominal	21.20	20.50	21.30			18.20
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 39750]	Max allowed power	22.10	21.50	22.30			19.20
	Nominal	21.20	20.50	21.30			18.20
LTE TDD Band 41 (PC2) - [Ch. 39750]	Max allowed power	23.70	23.10	23.90			20.80
	Nominal	22.80	22.10	22.90			19.80
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 39750]	Max allowed power	23.70	23.10	23.90			20.80
	Nominal	22.80	22.10	22.90			19.80
LTE TDD Band 41 (PC3) - [Ch. 40185 - 40620]	Max allowed power	22.10	21.50	22.30			19.20
	Nominal	21.20	20.50	21.30			18.20
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 40185 - 40620]	Max allowed power	22.10	21.50	22.30			19.20
	Nominal	21.20	20.50	21.30			18.20
LTE TDD Band 41 (PC2) - [Ch. 40185 - 40620]	Max allowed power	23.70	23.10	23.90			20.80
	Nominal	22.80	22.10	22.90			19.80
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 40185 - 40620]	Max allowed power	23.70	23.10	23.90			20.80
	Nominal	22.80	22.10	22.90			19.80
LTE TDD Band 41 (PC3) - [Ch. 41055]	Max allowed power	23.00	21.40	22.90			23.10
	Nominal	21.90	20.50	22.00			21.60
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41055]	Max allowed power	23.00	21.40	22.90			23.10
	Nominal	21.90	20.50	22.00			21.60
LTE TDD Band 41 (PC2) - [Ch. 41055]	Max allowed power	24.60	23.00	24.50			24.70
	Nominal	23.50	22.10	23.60			23.20
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41055]	Max allowed power	24.60	23.00	24.50			24.70
	Nominal	23.50	22.10	23.60			23.20
LTE TDD Band 41 (PC3) - [Ch. 41490]	Max allowed power	23.00	21.40	22.90			23.10
	Nominal	21.90	20.50	22.00			21.60
LTE TDD Band 41 (PC3) Intra-band ULCA - [Ch. 41490]	Max allowed power	23.00	21.40	22.90			23.10
	Nominal	21.90	20.50	22.00			21.60
LTE TDD Band 41 (PC2) - [Ch. 41490]	Max allowed power	24.60	23.00	24.50			24.70
	Nominal	23.50	22.10	23.60			23.20
LTE TDD Band 41 (PC2) Intra-band ULCA - [Ch. 41490]	Max allowed power	24.60	23.00	24.50			24.70
	Nominal	23.50	22.10	23.60			23.20
LTE TDD Band 48 - [Ch. 55340 - 55773]	Max allowed power	20.30		19.30		21.60	20.40
	Nominal	19.40		18.20		20.60	19.30
LTE TDD Band 48 Intra-band ULCA - [Ch. 55340 - 55773]	Max allowed power	20.30		19.30		21.60	20.40
	Nominal	19.40		18.20		20.60	19.30
LTE TDD Band 48 - [Ch. 56207 - 56640]	Max allowed power	20.30		19.30		21.60	20.40
	Nominal	19.40		18.00		20.30	19.40
LTE TDD Band 48 Intra-band ULCA - [Ch. 56207 - 56640]	Max allowed power	20.30		19.30		21.60	20.40
	Nominal	19.40		18.00		20.30	19.40

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**Table 1-9
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					22.10	23.90
	Nominal					21.30	22.80
NR FDD Band n12	Max allowed power					22.00	23.10
	Nominal					21.20	22.00
NR FDD Band n14	Max allowed power					21.60	23.80
	Nominal					20.80	23.20
NR FDD Band n26	Max allowed power					21.50	24.40
	Nominal					20.90	23.70
NR FDD Band n5	Max allowed power					21.80	24.00
	Nominal					21.20	23.40
NR FDD Band n70	Max allowed power	20.60	20.00	22.10			21.80
	Nominal	19.90	19.10	21.20			21.10
NR FDD Band n66 - [Ch. 346500 - 349000]	Max allowed power	20.10	25.30	21.30			23.00
	Nominal	19.30	24.30	20.30			21.90
NR FDD Band n66 - [Ch. 351500]	Max allowed power	19.50	25.30	21.10			23.90
	Nominal	18.50	24.20	20.20			22.60
NR FDD Band n2	Max allowed power	18.40	18.80	21.00			17.50
	Nominal	17.50	18.00	20.10			16.60
NR FDD Band n25	Max allowed power	18.40	18.80	21.00			17.50
	Nominal	17.50	18.00	20.10			16.60
NR FDD Band n30	Max allowed power	19.00	16.90	19.60			18.50
	Nominal	18.20	16.30	18.90			17.50
NR FDD Band n7	Max allowed power	20.10	18.90	20.50			16.80
	Nominal	19.30	17.90	19.50			15.80
NR TDD Band n41 (PC3) - [Ch. 509202 - 518598]	Max allowed power	20.10	19.70	20.30			17.80
	Nominal	18.80	18.50	19.10			16.80
NR TDD Band n41 (PC2) - [Ch. 509202 - 518598]	Max allowed power	20.10	19.70	20.30			17.80
	Nominal	18.80	18.50	19.10			16.80
NR TDD Band n41 (PC3) - [Ch. 528000]	Max allowed power	20.70	19.40	21.00			20.70
	Nominal	19.50	18.40	20.00			19.00
NR TDD Band n41 (PC2) - [Ch. 528000]	Max allowed power	20.70	19.40	21.00			20.70
	Nominal	19.50	18.40	20.00			19.00
NR TDD Band n48 - [Ch. 638000 - 641666]	Max allowed power	19.70		18.00		21.60	18.40
	Nominal	18.60		16.70		20.70	17.20
NR TDD Band n48 - [Ch. 645332]	Max allowed power	19.80		19.30		21.60	19.60
	Nominal	18.70		18.10		20.40	18.40
NR TDD Band n77 DoD (PC3) - [Ch. 633334]	Max allowed power	20.10		18.70		21.40	19.30
	Nominal	19.30		17.10		20.20	18.10
NR TDD Band n77 DoD (PC2) - [Ch. 633334]	Max allowed power	20.10		18.70		21.40	19.30
	Nominal	19.30		17.10		20.20	18.10
NR TDD Band n77 DoD (PC3) - [Ch. 639334]	Max allowed power	19.40		18.50		21.30	19.50
	Nominal	18.40		17.40		20.20	18.20
NR TDD Band n77 DoD (PC2) - [Ch. 639334]	Max allowed power	19.40		18.50		21.30	19.50
	Nominal	18.40		17.40		20.20	18.20
NR TDD Band n77 (PC3) - [Ch. 650000]	Max allowed power	18.90		21.50		21.80	20.00
	Nominal	17.90		20.20		20.70	18.70
NR TDD Band n77 (PC2) - [Ch. 650000]	Max allowed power	18.90		21.50		21.80	20.00
	Nominal	17.90		20.20		20.70	18.70
NR TDD Band n77 (PC3) - [Ch. 662000]	Max allowed power	19.80		20.90		20.70	20.50
	Nominal	18.70		18.80		19.20	19.20
NR TDD Band n77 (PC2) - [Ch. 662000]	Max allowed power	19.80		20.90		20.70	20.50
	Nominal	18.70		18.80		19.20	19.20

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1.3.2

Maximum WLAN Time-Averaged Output Power

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO b	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.00	19.00	15.70	14.70	15.70	14.70	15.20	14.20
	2	20.00	19.00	18.50	17.50	18.50	17.50	18.50	17.50
	3	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	4	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	5	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	6	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	7	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	8	20.00	19.00	19.70	18.70	19.70	18.70	19.60	18.60
	9	20.00	19.00	19.60	18.60	19.60	18.60	19.20	18.20
	10	20.00	19.00	19.50	18.50	19.50	18.50	18.00	17.00
	11	20.00	19.00	17.20	16.20	17.20	16.20	17.10	16.10
	12	20.00	19.00	15.70	14.70	15.70	14.70	15.50	14.50
	13	18.00	17.00	9.00	8.00	9.00	8.00	7.50	6.50
Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		MIMO CDD g/n (Maximum)	MIMO CDD g/n (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM g/n (Maximum)	MIMO SDM g/n (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	14.70	13.70	14.20	13.20	14.70	13.70	14.20	13.20
	2	18.50	17.50	17.60	16.60	18.50	17.50	17.60	16.60
	3	19.10	18.10	19.00	18.00	19.10	18.10	19.00	18.00
	4	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	5	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	6	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	7	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	8	19.20	18.20	18.80	17.80	19.20	18.20	18.80	17.80
	9	18.60	17.60	18.20	17.20	18.60	17.60	18.20	17.20
	10	18.20	17.20	17.00	16.00	18.20	17.20	17.00	16.00
	11	16.50	15.50	16.10	15.10	16.50	15.50	16.10	15.10
	12	15.50	14.50	14.70	13.70	15.50	14.50	14.70	13.70
	13	8.50	7.50	6.00	5.00	8.50	7.50	6.00	5.00

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 b	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.00	19.00	16.20	15.20	16.20	15.20	15.70	14.70
	2	20.00	19.00	19.50	18.50	19.50	18.50	18.60	17.60
	3	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	4	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	5	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	6	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	7	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	8	20.00	19.00	19.90	18.90	19.90	18.90	19.60	18.60
	9	20.00	19.00	19.60	18.60	19.60	18.60	19.20	18.20
	10	20.00	19.00	19.20	18.20	19.20	18.20	18.00	17.00
	11	20.00	19.00	17.50	16.50	17.50	16.50	17.10	16.10
	12	20.00	19.00	16.00	15.00	16.00	15.00	15.70	14.70
	13	17.20	16.20	9.50	8.50	9.50	8.50	6.70	5.70
Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a							
		MIMO CDD g/n (Maximum)	MIMO CDD g/n (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM g/n (Maximum)	MIMO SDM g/n (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	14.70	13.70	14.20	13.20	14.70	13.70	14.20	13.20
	2	18.50	17.50	17.60	16.60	18.50	17.50	17.60	16.60
	3	19.10	18.10	19.00	18.00	19.10	18.10	19.00	18.00
	4	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	5	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	6	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	7	20.00	19.00	20.00	19.00	20.00	19.00	20.00	19.00
	8	19.20	18.20	18.80	17.80	19.20	18.20	18.80	17.80
	9	18.60	17.60	18.20	17.20	18.60	17.60	18.20	17.20
	10	18.20	17.20	17.00	16.00	18.20	17.20	17.00	16.00
	11	16.50	15.50	16.10	15.10	16.50	15.50	16.10	15.10
	12	15.50	14.50	14.70	13.70	15.50	14.50	14.70	13.70
	13	8.50	7.50	6.00	5.00	8.50	7.50	6.00	5.00

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFST								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	4.00	3.00	4.40	3.40	-1.30	-2.30	1.70	0.70
	5	4.70	3.70	5.30	4.30	-0.40	-1.40	2.60	1.60
	9-29	4.80	3.80	5.10	4.10	-0.50	-1.50	2.50	1.50
	33-61	5.40	4.40	6.00	5.00	-0.20	-1.20	2.80	1.80
	65-85	5.60	4.60	6.00	5.00	-0.30	-1.30	2.70	1.70
	89	5.90	4.90	6.30	5.30	0.00	-1.00	3.10	2.10
	93	5.30	4.30	6.30	5.30	-0.10	-1.10	2.90	1.90
	97-113	5.50	4.50	6.10	5.10	0.00	-1.00	3.00	2.00
	117-181	4.90	3.90	5.50	4.50	-0.10	-1.10	2.90	1.90
	185	5.10	4.10	5.60	4.60	0.10	-0.90	3.10	2.10
	189-225	5.10	4.10	5.70	4.70	0.70	-0.30	3.60	2.60
	229	5.30	4.30	5.80	4.80	0.70	-0.30	3.60	2.60
	233	4.70	3.70	5.00	4.00	-0.20	-1.20	2.70	1.70
	3			7.40	6.40	1.70	0.70	4.70	3.70
	11			8.20	7.20	2.50	1.50	5.50	4.50
6 GHz WiFi (40MHz BW) LP	19-27			8.20	7.20	2.50	1.50	5.50	4.50
	35-59			8.80	7.80	2.80	1.80	5.90	4.90
	67-75			9.00	8.00	2.70	1.70	4.70	3.70
	83			9.20	8.20	2.80	1.80	5.80	4.80
	91			9.40	8.40	3.10	2.10	6.10	5.10
	99-107			9.00	8.00	2.90	1.90	5.90	4.90
	115			8.50	7.50	2.70	1.70	5.70	4.70
	123-179			8.40	7.40	2.90	1.90	5.90	4.90
	187			8.50	7.50	3.00	2.00	6.00	5.00
	195-219			8.80	7.80	3.70	2.70	6.70	5.70
	227			8.80	7.80	3.60	2.60	6.60	5.60
	7			10.40	9.40	4.70	3.70	7.70	6.70
	23			11.10	10.10	5.50	4.50	8.50	7.50
	39-55			11.80	10.80	5.80	4.80	8.80	7.80
	71			11.90	10.90	5.70	4.70	8.70	7.70
	87			11.70	10.70	5.40	4.40	8.40	7.40
6 GHz WiFi (80MHz BW) LP	103			12.10	11.10	5.90	4.90	8.90	7.90
	119			11.50	10.50	5.70	4.70	8.70	7.70
	135-167			11.40	10.40	5.90	4.90	8.90	7.90
	183			11.50	10.50	5.90	4.90	8.90	7.90
	199			11.60	10.60	6.50	5.50	9.50	8.50
	215			12.20	11.20	7.20	6.20	10.10	9.10
	15			13.30	12.30	7.40	6.40	10.40	9.40
	47			12.75	11.75	8.20	7.20	11.20	10.20
	79			12.75	11.75	8.20	7.20	11.20	10.20
	111			13.50	12.50	8.00	7.00	11.00	10.00
	143			12.75	11.75	8.50	7.50	11.50	10.50
	175			13.80	12.80	8.30	7.30	11.30	10.30
	207			14.10	13.10	9.00	8.00	12.00	11.00
Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFST								
	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	1.40	0.40	2.00	1.00	-4.20	-5.20	-1.20	-2.20
	65-85	1.60	0.60	2.00	1.00	-4.30	-5.30	-1.30	-2.30
	89	1.90	0.90	2.30	1.30	-4.00	-5.00	-0.90	-1.90
	93	1.30	0.30	2.30	1.30	-4.10	-5.10	-1.10	-2.10
	97-113	1.50	0.50	2.10	1.10	-4.00	-5.00	-1.00	-2.00
	117-181	0.90	-0.10	1.50	0.50	-4.10	-5.10	-1.10	-2.10
	185	1.10	0.10	1.60	0.60	-3.90	-4.90	-0.90	-1.90
	189-225	1.10	0.10	1.70	0.70	-3.30	-4.30	-0.40	-1.40
	229	1.30	0.30	1.80	0.80	-3.30	-4.30	-0.40	-1.40
	233	0.70	-0.30	1.00	0.00	-4.20	-5.20	-1.30	-2.30
	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	19-27			NS	NS	NS	NS	NS	NS
	35-59			4.80	3.80	-1.20	-2.20	1.90	0.90
	67-75			5.00	4.00	-1.30	-2.30	1.70	0.70
	83			5.20	4.20	-1.20	-2.20	1.80	0.80
	91			5.40	4.40	-0.90	-1.90	2.10	1.10
	99-107			5.00	4.00	-1.10	-2.10	1.90	0.90
	115			4.50	3.50	-1.30	-2.30	1.70	0.70
	123-179			4.40	3.40	-1.10	-2.10	1.90	0.90
	187			4.50	3.50	-1.00	-2.00	2.00	1.00
	195-219			4.80	3.80	-0.30	-1.30	2.70	1.70
	227			4.80	3.80	-0.40	-1.40	2.60	1.60
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			7.80	6.80	1.80	0.80	4.80	3.80
	71			7.90	6.90	1.70	0.70	4.70	3.70
	87			7.70	6.70	1.40	0.40	4.40	3.40
6 GHz WiFi (80MHz BW) VLP	103			8.10	7.10	1.90	0.90	4.90	3.90
	119			7.50	6.50	1.70	0.70	4.70	3.70
	135-167			7.40	6.40	1.90	0.90	4.90	3.90
	183			7.50	6.50	1.90	0.90	4.90	3.90
	199			7.60	6.60	2.50	1.50	5.50	4.50
	215			8.20	7.20	3.20	2.20	6.10	5.10
	15			NS	NS	NS	NS	NS	NS
	47			9.60	8.60	4.20	3.20	6.60	5.60
	79			9.70	8.70	4.20	3.20	6.40	5.40
	111			9.20	8.20	4.00	3.00	6.40	5.40
	143			9.20	8.20	4.50	3.50	6.70	5.70
	175			9.20	8.20	4.30	3.30	6.70	5.70
	207			9.40	8.40	5.00	4.00	7.30	6.30

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFST								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	5	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	9-29	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	33-61	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	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	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	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
	3			14.25	13.25	14.25	13.25	14.25	13.25
6 GHz WiFi (40MHz BW) SP	11			14.25	13.25	14.25	13.25	14.25	13.25
	19-27			14.25	13.25	14.25	13.25	14.25	13.25
	35-59			12.75	11.75	12.75	11.75	12.75	11.75
	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			12.75	11.75	12.75	11.75	12.75	11.75
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			14.25	13.25	14.25	13.25	14.25	13.25
	23			14.25	13.25	14.25	13.25	14.25	13.25
	39-55			12.75	11.75	12.75	11.75	12.75	11.75
6 GHz WiFi (80MHz BW) SP	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			12.75	11.75	12.75	11.75	12.75	11.75
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			14.25	13.25	14.25	13.25	14.25	13.25
	47			12.75	11.75	12.75	11.75	12.75	11.75
6 GHz WiFi (160MHz BW) SP	79			12.75	11.75	12.75	11.75	12.75	11.75
	111			NS	NS	NS	NS	NS	NS
	143			12.75	11.75	12.75	11.75	12.75	11.75
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	4.90	3.90	5.10	4.10	-1.30	-2.30	1.70	0.70
	5	5.70	4.70	6.00	5.00	-0.40	-1.40	2.60	1.60
	9-29	5.60	4.60	6.00	5.00	-0.50	-1.50	2.50	1.50
	33-61	5.60	4.60	5.80	4.80	-0.20	-1.20	2.80	1.80
	65-85	5.00	4.00	5.50	4.50	-0.30	-1.30	2.70	1.70
	89	5.20	4.20	5.80	4.80	0.00	-1.00	3.10	2.10
	93	4.90	3.90	5.70	4.70	-0.10	-1.10	2.90	1.90
	97-113	5.40	4.40	6.00	5.00	0.00	-1.00	3.00	2.00
	117-181	5.90	4.90	6.50	5.50	-0.10	-1.10	2.90	1.90
	185	6.30	5.30	6.60	5.60	0.10	-0.90	3.10	2.10
	189-225	7.10	6.10	7.80	6.80	0.70	-0.30	3.60	2.60
	229	7.40	6.40	7.80	6.80	0.70	-0.30	3.60	2.60
	233	6.70	5.70	6.90	5.90	-0.20	-1.20	2.70	1.70
6 GHz WiFi (40MHz BW) LP	3			8.10	7.10	1.70	0.70	4.70	3.70
	11			8.90	7.90	2.50	1.50	5.50	4.50
	19-27			9.00	8.00	2.50	1.50	5.50	4.50
	35-59			9.00	8.00	2.80	1.80	5.90	4.90
	67-75			8.40	7.40	2.70	1.70	5.70	4.70
	83			8.60	7.60	2.80	1.80	5.80	4.80
	91			8.80	7.80	3.10	2.10	6.10	5.10
	99-107			8.90	7.90	2.90	1.90	5.90	4.90
	115			9.10	8.10	2.70	1.70	5.70	4.70
	123-179			9.40	8.40	2.90	1.90	5.90	4.90
	187			9.60	8.60	3.00	2.00	6.00	5.00
	195-219			10.80	9.80	3.70	2.70	6.70	5.70
	227			10.70	9.70	3.60	2.60	6.60	5.60
6 GHz WiFi (80MHz BW) LP	7			11.10	10.10	4.70	3.70	7.70	6.70
	23			11.90	10.90	5.50	4.50	8.50	7.50
	39-55			11.80	10.80	5.80	4.80	8.80	7.80
	71			11.60	10.60	5.70	4.70	8.70	7.70
	87			11.30	10.30	5.40	4.40	8.40	7.40
	103			11.90	10.90	5.90	4.90	8.90	7.90
	119			11.90	10.90	5.70	4.70	8.70	7.70
	135-167			12.40	11.40	5.90	4.90	8.90	7.90
	183			12.50	11.50	5.90	4.90	8.90	7.90
	199			13.60	12.60	6.50	5.50	9.50	8.50
	215			14.25	13.25	7.20	6.20	10.10	9.10
6 GHz WiFi (160MHz BW) LP	15			13.80	12.80	7.40	6.40	10.40	9.40
	47			13.75	12.75	8.20	7.20	11.20	10.20
	79			13.75	12.75	8.20	7.20	11.20	10.20
	111			14.00	13.00	8.00	7.00	11.00	10.00
	143			14.00	13.00	8.50	7.50	11.50	10.50
	175			15.10	14.10	8.30	7.30	11.30	10.30
	207			14.25	13.25	9.00	8.00	12.00	11.00
Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) 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	1.60	0.60	1.80	0.80	-4.20	-5.20	-1.20	-2.20
	65-85	1.00	0.00	1.50	0.50	-4.30	-5.30	-1.30	-2.30
	89	1.20	0.20	1.80	0.80	-4.00	-5.00	-0.90	-1.90
	93	0.90	-0.10	1.70	0.70	-4.10	-5.10	-1.10	-2.10
	97-113	1.40	0.40	2.00	1.00	-4.00	-5.00	-1.00	-2.00
	117-181	1.90	0.90	2.50	1.50	-4.10	-5.10	-1.10	-2.10
	185	2.30	1.30	2.60	1.60	-3.90	-4.90	-0.90	-1.90
	189-225	3.10	2.10	3.80	2.80	-3.30	-4.30	-0.40	-1.40
	229	3.40	2.40	3.80	2.80	-3.30	-4.30	-0.40	-1.40
	233	2.70	1.70	2.90	1.90	-4.20	-5.20	-1.30	-2.30
6 GHz WiFi (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			5.00	4.00	-1.20	-2.20	1.90	0.90
	67-75			4.40	3.40	-1.30	-2.30	1.70	0.70
	83			4.60	3.60	-1.20	-2.20	1.80	0.80
	91			4.80	3.80	-0.90	-1.90	2.10	1.10
	99-107			4.90	3.90	-1.10	-2.10	1.90	0.90
	115			5.10	4.10	-1.30	-2.30	1.70	0.70
	123-179			5.40	4.40	-1.10	-2.10	1.90	0.90
	187			5.60	4.60	-1.00	-2.00	2.00	1.00
	195-219			6.80	5.80	-0.30	-1.30	2.70	1.70
	227			6.70	5.70	-0.40	-1.40	2.60	1.60
6 GHz WiFi (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			7.80	6.80	1.80	0.80	4.80	3.80
	71			7.60	6.60	1.70	0.70	4.70	3.70
	87			7.30	6.30	1.40	0.40	4.40	3.40
	103			7.90	6.90	1.90	0.90	4.90	3.90
	119			7.90	6.90	1.70	0.70	4.70	3.70
	135-167			8.40	7.40	1.90	0.90	4.90	3.90
	183			8.50	7.50	1.90	0.90	4.90	3.90
	199			9.60	8.60	2.50	1.50	5.50	4.50
	215			10.40	9.40	3.20	2.20	6.10	5.10
6 GHz WiFi (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			9.60	8.60	4.20	3.20	6.60	5.60
	79			9.20	8.20	4.20	3.20	6.40	5.40
	111			9.60	8.60	4.00	3.00	6.40	5.40
	143			10.20	9.20	4.50	3.50	6.70	5.70
	175			10.20	9.20	4.30	3.30	6.70	5.70
	207			11.40	10.40	5.00	4.00	7.30	6.30

FCC ID: BCGA3596	DUT Type: Tablet Device	RF EXPOSURE TEST REPORT	Approved by: Technical Manager
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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	5	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	9-29	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	33-61	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	65-85	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	89	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	93	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			14.75	13.75	14.75	13.75	14.75	13.75
	11			14.75	13.75	14.75	13.75	14.75	13.75
	19-27			14.75	13.75	14.75	13.75	14.75	13.75
	35-59			13.75	12.75	13.75	12.75	13.75	12.75
	67-75			13.75	12.75	13.75	12.75	13.75	12.75
	83			13.75	12.75	13.75	12.75	13.75	12.75
	91			13.75	12.75	13.75	12.75	13.75	12.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			14.00	13.00	14.00	13.00	14.00	13.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			14.75	13.75	14.75	13.75	14.75	13.75
6 GHz WIFI (80MHz BW) SP	23			14.75	13.75	14.75	13.75	14.75	13.75
	39-55			13.75	12.75	13.75	12.75	13.75	12.75
	71			13.75	12.75	13.75	12.75	13.75	12.75
	87			13.75	12.75	13.75	12.75	13.75	12.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			14.00	13.00	14.00	13.00	14.00	13.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			14.75	13.75	14.75	13.75	14.75	13.75
	47			13.75	12.75	13.75	12.75	13.75	12.75
	79			13.75	12.75	13.75	12.75	13.75	12.75
	111			NS	NS	NS	NS	NS	NS
	143			14.00	13.00	14.00	13.00	14.00	13.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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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) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	4.90	3.90	5.10	4.10	-1.30	-2.30	1.70	0.70
	5	5.70	4.70	6.00	5.00	-0.40	-1.40	2.60	1.60
	9-29	5.60	4.60	6.00	5.00	-0.50	-1.50	2.50	1.50
	33-61	5.60	4.60	5.80	4.80	-0.20	-1.20	2.80	1.80
	65-85	5.00	4.00	5.50	4.50	-0.30	-1.30	2.70	1.70
	89	5.20	4.20	5.80	4.80	0.00	-1.00	3.10	2.10
	93	4.90	3.90	5.70	4.70	-0.10	-1.10	2.90	1.90
	97-113	5.40	4.40	6.00	5.00	0.00	-1.00	3.00	2.00
	117-181	5.90	4.90	6.50	5.50	-0.10	-1.10	2.90	1.90
	185	6.30	5.30	6.60	5.60	0.10	-0.90	3.10	2.10
	189-225	7.10	6.10	7.80	6.80	0.70	-0.30	3.60	2.60
	229	7.40	6.40	7.80	6.80	0.70	-0.30	3.60	2.60
	233	6.70	5.70	6.90	5.90	-0.20	-1.20	2.70	1.70
	3			8.10	7.10	1.70	0.70	4.70	3.70
	11			8.90	7.90	2.50	1.50	5.50	4.50
	19-27			9.00	8.00	2.50	1.50	5.50	4.50
6 GHz WiFi (40MHz BW) LP	35-59			9.00	8.00	2.80	1.80	5.90	4.90
	67-75			8.40	7.40	2.70	1.70	5.70	4.70
	83			8.60	7.60	2.80	1.80	5.80	4.80
	91			8.80	7.80	3.10	2.10	6.10	5.10
	99-107			8.90	7.90	2.90	1.90	5.90	4.90
	115			9.10	8.10	2.70	1.70	5.70	4.70
	123-179			9.40	8.40	2.90	1.90	5.90	4.90
	187			9.60	8.60	3.00	2.00	6.00	5.00
	195-219			10.80	9.80	3.70	2.70	6.70	5.70
	227			10.70	9.70	3.60	2.60	6.60	5.60
6 GHz WiFi (80MHz BW) LP	7			11.10	10.10	4.70	3.70	7.70	6.70
	23			11.90	10.90	5.50	4.50	8.50	7.50
	39-55			11.80	10.80	5.80	4.80	8.80	7.80
	71			11.60	10.60	5.70	4.70	8.70	7.70
	87			11.30	10.30	5.40	4.40	8.40	7.40
	103			11.90	10.90	5.90	4.90	8.90	7.90
	119			11.90	10.90	5.70	4.70	8.70	7.70
	135-167			12.40	11.40	5.90	4.90	8.90	7.90
	183			12.50	11.50	5.90	4.90	8.90	7.90
	199			13.60	12.60	6.50	5.50	9.50	8.50
	215			14.40	13.40	7.20	6.20	10.10	9.10
6 GHz WiFi (160MHz BW) LP	15			12.75	11.75	7.40	6.40	10.40	9.40
	47			12.25	11.25	8.20	7.20	11.20	10.20
	79			12.25	11.25	8.20	7.20	11.20	10.20
	111			14.25	13.25	8.00	7.00	11.00	10.00
	143			15.20	14.20	8.50	7.50	11.50	10.50
	175			15.10	14.10	8.30	7.30	11.30	10.30
	207			16.10	15.10	9.00	8.00	12.00	11.00

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	1.60	0.60	1.80	0.80	-4.20	-5.20	-1.20	-2.20
	65-85	1.00	0.00	1.50	0.50	-4.30	-5.30	-1.30	-2.30
	89	1.20	0.20	1.80	0.80	-4.00	-5.00	-0.90	-1.90
	93	0.90	-0.10	1.70	0.70	-4.10	-5.10	-1.10	-2.10
	97-113	1.40	0.40	2.00	1.00	-4.00	-5.00	-1.00	-2.00
	117-181	1.90	0.90	2.50	1.50	-4.10	-5.10	-1.10	-2.10
	185	2.30	1.30	2.60	1.60	-3.90	-4.90	-0.90	-1.90
	189-225	3.10	2.10	3.80	2.80	-3.30	-4.30	-0.40	-1.40
	229	3.40	2.40	3.80	2.80	-3.30	-4.30	-0.40	-1.40
	233	2.70	1.70	2.90	1.90	-4.20	-5.20	-1.30	-2.30
6 GHz WiFi (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			5.00	4.00	-1.20	-2.20	1.90	0.90
	67-75			4.40	3.40	-1.30	-2.30	1.70	0.70
	83			4.60	3.60	-1.20	-2.20	1.80	0.80
	91			4.80	3.80	-0.90	-1.90	2.10	1.10
	99-107			4.90	3.90	-1.10	-2.10	1.90	0.90
	115			5.10	4.10	-1.30	-2.30	1.70	0.70
	123-179			5.40	4.40	-1.10	-2.10	1.90	0.90
	187			5.60	4.60	-1.00	-2.00	2.00	1.00
	195-219			6.80	5.80	-0.30	-1.30	2.70	1.70
	227			6.70	5.70	-0.40	-1.40	2.60	1.60
6 GHz WiFi (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			7.80	6.80	1.80	0.80	4.80	3.80
	71			7.60	6.60	1.70	0.70	4.70	3.70
	87			7.30	6.30	1.40	0.40	4.40	3.40
	103			7.90	6.90	1.90	0.90	4.90	3.90
	119			7.90	6.90	1.70	0.70	4.70	3.70
	135-167			8.40	7.40	1.90	0.90	4.90	3.90
	183			8.50	7.50	1.90	0.90	4.90	3.90
	199			9.60	8.60	2.50	1.50	5.50	4.50
	215			10.40	9.40	3.20	2.20	6.10	5.10
6 GHz WiFi (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			9.60	8.60	4.20	3.20	6.60	5.60
	79			9.20	8.20	4.20	3.20	6.40	5.40
	111			9.60	8.60	4.00	3.00	6.40	5.40
	143			10.20	9.20	4.50	3.50	6.70	5.70
	175			10.20	9.20	4.30	3.30	6.70	5.70
	207			11.40	10.40	5.00	4.00	7.30	6.30

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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) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	5	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	9-29	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	33-61	12.25	11.25	12.25	11.25	12.25	11.25	12.25	11.25
	65-85	12.25	11.25	12.25	11.25	12.25	11.25	12.25	11.25
	89	12.25	11.25	12.25	11.25	12.25	11.25	12.25	11.25
	93	12.25	11.25	12.25	11.25	12.25	11.25	12.25	11.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
	3			12.75	11.75	12.75	11.75	12.75	11.75
6 GHz WIFI (40MHz BW) SP	11			12.75	11.75	12.75	11.75	12.75	11.75
	19-27			12.75	11.75	12.75	11.75	12.75	11.75
	35-59			12.25	11.25	12.25	11.25	12.25	11.25
	67-75			12.25	11.25	12.25	11.25	12.25	11.25
	83			12.25	11.25	12.25	11.25	12.25	11.25
	91			12.25	11.25	12.25	11.25	12.25	11.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			14.25	13.25	14.25	13.25	14.25	13.25
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			12.75	11.75	12.75	11.75	12.75	11.75
	23			12.75	11.75	12.75	11.75	12.75	11.75
	39-55			12.25	11.25	12.25	11.25	12.25	11.25
6 GHz WIFI (80MHz BW) SP	71			12.25	11.25	12.25	11.25	12.25	11.25
	87			12.25	11.25	12.25	11.25	12.25	11.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			15.25	14.25	15.25	14.25	15.25	14.25
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			12.75	11.75	12.75	11.75	12.75	11.75
	47			12.25	11.25	12.25	11.25	12.25	11.25
6 GHz WIFI (160MHz BW) SP	79			12.25	11.25	12.25	11.25	12.25	11.25
	111			NS	NS	NS	NS	NS	NS
	143			15.25	14.25	15.25	14.25	15.25	14.25
	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	20.00	8.75	17.00	8.75
	Nominal	19.00	7.75	16.00	7.75
EDR 2/3	Maximum	16.50	5.75	13.50	5.75
	Nominal	15.50	4.75	12.50	4.75
LE Adv	Maximum	20.00	8.75	19.50	8.75
	Nominal	19.00	7.75	18.50	7.75
LE1M, CS Mode1 LE1M	Maximum	20.00	8.75	19.50	8.75
	Nominal	19.00	7.75	18.50	7.75
LE2M, CS Mode1 LE2M	Maximum	20.00	8.75	18.00	8.75
	Nominal	19.00	7.75	17.00	7.75
HDR4	Maximum	13.75	5.75	13.75	5.75
	Nominal	12.75	4.75	12.75	4.75
HDR8	Maximum	13.75	5.75	13.75	5.75
	Nominal	12.75	4.75	12.75	4.75
(X)HDRPS2	Maximum	13.75	5.75	13.75	5.75
	Nominal	12.75	4.75	12.75	4.75
(X)HDRPM 4/6/8	Maximum	13.75	5.75	13.75	5.75
	Nominal	12.75	4.75	12.75	4.75
(X)HDRPM 12/16	Maximum	11.75	2.75	11.75	2.75
	Nominal	10.75	1.75	10.75	1.75
(X)HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
(X)HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	13.75	5.75	13.75	5.75
	Nominal	12.75	4.75	12.75	4.75
HDT4	Maximum	13.75	5.75	13.75	5.75
	Nominal	12.75	4.75	12.75	4.75
HDT 6/8	Maximum	11.75	2.75	11.75	2.75
	Nominal	10.75	1.75	10.75	1.75
CS Mode2	Maximum	20.00	8.75	17.00	8.75
	Nominal	19.00	7.75	16.00	7.75
LELR	Maximum	13.00	8.75	10.00	8.75
	Nominal	12.00	7.75	9.00	7.75
CS Mode1 LE2M 2.0	Maximum	20.00	8.75	17.00	8.75
	Nominal	19.00	7.75	16.00	7.75

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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	8.25	17.00	8.25
	Nominal	19.00	7.25	16.00	7.25
EDR 2/3	Maximum	16.50	5.25	13.50	5.25
	Nominal	15.50	4.25	12.50	4.25
LE Adv	Maximum	20.00	8.25	19.50	8.25
	Nominal	19.00	7.25	18.50	7.25
LE1M, CS Mode1 LE1M	Maximum	20.00	8.25	19.50	8.25
	Nominal	19.00	7.25	18.50	7.25
LE2M, CS Mode1 LE2M	Maximum	20.00	8.25	18.00	8.25
	Nominal	19.00	7.25	17.00	7.25
HDR4	Maximum	13.50	5.25	13.50	5.25
	Nominal	12.50	4.25	12.50	4.25
HDR8	Maximum	13.50	5.25	13.50	5.25
	Nominal	12.50	4.25	12.50	4.25
(X)HDRPS2	Maximum	13.50	5.25	13.50	5.25
	Nominal	12.50	4.25	12.50	4.25
(X)HDRPM 4/6/8	Maximum	13.50	5.25	13.50	5.25
	Nominal	12.50	4.25	12.50	4.25
(X)HDRPM 12/16	Maximum	11.50	2.25	11.50	2.25
	Nominal	10.50	1.25	10.50	1.25
(X)HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
(X)HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	13.50	5.25	13.50	5.25
	Nominal	12.50	4.25	12.50	4.25
HDT4	Maximum	13.50	5.25	13.50	5.25
	Nominal	12.50	4.25	12.50	4.25
HDT 6/8	Maximum	11.50	2.25	11.50	2.25
	Nominal	10.50	1.25	10.50	1.25
CS Mode2	Maximum	20.00	8.25	17.00	8.25
	Nominal	19.00	7.25	16.00	7.25
LELR	Maximum	13.00	8.25	10.00	8.25
	Nominal	12.00	7.25	9.00	7.25
CS Mode1 LE2M 2.0	Maximum	20.00	8.25	17.00	8.25
	Nominal	19.00	7.25	16.00	7.25

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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	20.00	8.75
	Nominal	19.00	7.75

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	8.25
	Nominal	19.00	7.25

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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 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	9.50	3.75	5.75	3.75
	Nominal	8.50	2.75	4.75	2.75
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.00	3.75	6.00	3.75
	Nominal	9.00	2.75	5.00	2.75
LE1M, CS Mode1 LE1M	Maximum	10.00	3.75	6.00	3.75
	Nominal	9.00	2.75	5.00	2.75
LE2M, CS Mode1 LE2M	Maximum	10.50	3.75	6.75	3.75
	Nominal	9.50	2.75	5.75	2.75
HDR4	Maximum	12.00	0.75	8.25	0.75
	Nominal	11.00	-0.25	7.25	-0.25
HDR8	Maximum	13.25	0.75	9.50	0.75
	Nominal	12.25	-0.25	8.50	-0.25
(X)HDRPS2	Maximum	12.00	0.75	8.00	0.75
	Nominal	11.00	-0.25	7.00	-0.25
(X)HDRPM 4/6/8	Maximum	13.75	0.75	10.00	0.75
	Nominal	12.75	-0.25	9.00	-0.25
(X)HDRPM 12/16	Maximum	11.75	-2.25	10.75	-2.25
	Nominal	10.75	-3.25	9.75	-3.25
(X)HDRPL 8/12/16	Maximum	13.75	0.75	13.75	0.75
	Nominal	12.75	-0.25	12.75	-0.25
(X)HDRPL 24/32	Maximum	11.75	-2.25	11.75	-2.25
	Nominal	10.75	-3.25	10.75	-3.25
HDT 2/3	Maximum	12.25	0.75	8.50	0.75
	Nominal	11.25	-0.25	7.50	-0.25
HDT4	Maximum	12.25	0.75	8.50	0.75
	Nominal	11.25	-0.25	7.50	-0.25
HDT 6/8	Maximum	11.75	-2.25	8.25	-2.25
	Nominal	10.75	-3.25	7.25	-3.25
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	9.50	3.00	5.75	3.00
	Nominal	8.50	2.00	4.75	2.00
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.00	3.00	6.00	3.00
	Nominal	9.00	2.00	5.00	2.00
LE1M, CS Mode1 LE1M	Maximum	10.00	3.00	6.00	3.00
	Nominal	9.00	2.00	5.00	2.00
LE2M, CS Mode1 LE2M	Maximum	10.50	3.00	6.75	3.00
	Nominal	9.50	2.00	5.75	2.00
HDR4	Maximum	12.00	0.00	8.25	0.00
	Nominal	11.00	-1.00	7.25	-1.00
HDR8	Maximum	13.00	0.00	9.50	0.00
	Nominal	12.00	-1.00	8.50	-1.00
(X)HDRPS2	Maximum	12.00	0.00	8.00	0.00
	Nominal	11.00	-1.00	7.00	-1.00
(X)HDRPM 4/6/8	Maximum	13.00	0.00	10.00	0.00
	Nominal	12.00	-1.00	9.00	-1.00
(X)HDRPM 12/16	Maximum	11.00	-3.00	10.75	-3.00
	Nominal	10.00	-4.00	9.75	-4.00
(X)HDRPL 8/12/16	Maximum	13.00	0.00	13.00	0.00
	Nominal	12.00	-1.00	12.00	-1.00
(X)HDRPL 24/32	Maximum	11.00	-3.00	11.00	-3.00
	Nominal	10.00	-4.00	10.00	-4.00
HDT 2/3	Maximum	12.25	0.00	8.50	0.00
	Nominal	11.25	-1.00	7.50	-1.00
HDT4	Maximum	12.25	0.00	8.50	0.00
	Nominal	11.25	-1.00	7.50	-1.00
HDT 6/8	Maximum	11.00	-3.00	8.25	-3.00
	Nominal	10.00	-4.00	7.25	-4.00
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	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	9.50	2.50	6.50	2.50
	Nominal	8.50	1.50	5.50	1.50
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.00	2.50	7.00	2.50
	Nominal	9.00	1.50	6.00	1.50
LE1M, CS Mode1 LE1M	Maximum	10.00	2.50	7.00	2.50
	Nominal	9.00	1.50	6.00	1.50
LE2M, CS Mode1 LE2M	Maximum	10.50	2.50	7.50	2.50
	Nominal	9.50	1.50	6.50	1.50
HDR4	Maximum	12.00	-0.50	9.00	-0.50
	Nominal	11.00	-1.50	8.00	-1.50
HDR8	Maximum	12.00	-0.50	10.25	-0.50
	Nominal	11.00	-1.50	9.25	-1.50
(X)HDRPS2	Maximum	12.00	-0.50	9.00	-0.50
	Nominal	11.00	-1.50	8.00	-1.50
(X)HDRPM 4/6/8	Maximum	12.00	-0.50	11.00	-0.50
	Nominal	11.00	-1.50	10.00	-1.50
(X)HDRPM 12/16	Maximum	10.00	-3.50	10.00	-3.50
	Nominal	9.00	-4.50	9.00	-4.50
(X)HDRPL 8/12/16	Maximum	12.00	-0.50	12.00	-0.50
	Nominal	11.00	-1.50	11.00	-1.50
(X)HDRPL 24/32	Maximum	10.00	-3.50	10.00	-3.50
	Nominal	9.00	-4.50	9.00	-4.50
HDT 2/3	Maximum	12.00	-0.50	9.25	-0.50
	Nominal	11.00	-1.50	8.25	-1.50
HDT4	Maximum	12.00	-0.50	9.25	-0.50
	Nominal	11.00	-1.50	8.25	-1.50
HDT 6/8	Maximum	10.00	-3.50	9.00	-3.50
	Nominal	9.00	-4.50	8.00	-4.50
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	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	18.75	4.75	18.75	4.75
	Nominal	17.75	3.75	17.75	3.75
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	18.75	4.75	18.75	4.75
	Nominal	17.75	3.75	17.75	3.75
LE1M, CS Mode1 LE1M	Maximum	18.75	4.75	18.75	4.75
	Nominal	17.75	3.75	17.75	3.75
LE2M, CS Mode1 LE2M	Maximum	18.75	4.75	18.75	4.75
	Nominal	17.75	3.75	17.75	3.75
HDR4	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
HDR8	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
(X)HDRPS2	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
(X)HDRPM 4/6/8	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
(X)HDRPM 12/16	Maximum	11.75	-1.25	11.75	-1.25
	Nominal	10.75	-2.25	10.75	-2.25
(X)HDRPL 8/12/16	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
(X)HDRPL 24/32	Maximum	11.75	-1.25	11.75	-1.25
	Nominal	10.75	-2.25	10.75	-2.25
HDT 2/3	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
HDT4	Maximum	13.75	1.75	13.75	1.75
	Nominal	12.75	0.75	12.75	0.75
HDT 6/8	Maximum	11.75	-1.25	11.75	-1.25
	Nominal	10.75	-2.25	10.75	-2.25
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	18.00	4.25	18.00	4.25
	Nominal	17.00	3.25	17.00	3.25
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	18.00	4.25	18.00	4.25
	Nominal	17.00	3.25	17.00	3.25
LE1M, CS Mode1 LE1M	Maximum	18.00	4.25	18.00	4.25
	Nominal	17.00	3.25	17.00	3.25
LE2M, CS Mode1 LE2M	Maximum	18.00	4.25	18.00	4.25
	Nominal	17.00	3.25	17.00	3.25
HDR4	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
HDR8	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
(X)HDRPS2	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
(X)HDRPM 4/6/8	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
(X)HDRPM 12/16	Maximum	11.00	-1.75	11.00	-1.75
	Nominal	10.00	-2.75	10.00	-2.75
(X)HDRPL 8/12/16	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
(X)HDRPL 24/32	Maximum	11.00	-1.75	11.00	-1.75
	Nominal	10.00	-2.75	10.00	-2.75
HDT 2/3	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
HDT4	Maximum	13.00	1.25	13.00	1.25
	Nominal	12.00	0.25	12.00	0.25
HDT 6/8	Maximum	11.00	-1.75	11.00	-1.75
	Nominal	10.00	-2.75	10.00	-2.75
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	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	17.00	4.25	17.00	4.25
	Nominal	16.00	3.25	16.00	3.25
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	17.00	4.25	17.00	4.25
	Nominal	16.00	3.25	16.00	3.25
LE1M, CS Mode1 LE1M	Maximum	17.00	4.25	17.00	4.25
	Nominal	16.00	3.25	16.00	3.25
LE2M, CS Mode1 LE2M	Maximum	17.00	4.25	17.00	4.25
	Nominal	16.00	3.25	16.00	3.25
HDR4	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
HDR8	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
(X)HDRPS2	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
(X)HDRPM 4/6/8	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
(X)HDRPM 12/16	Maximum	10.50	-1.75	10.50	-1.75
	Nominal	9.50	-2.75	9.50	-2.75
(X)HDRPL 8/12/16	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
(X)HDRPL 24/32	Maximum	10.50	-1.75	10.50	-1.75
	Nominal	9.50	-2.75	9.50	-2.75
HDT 2/3	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
HDT4	Maximum	12.50	1.25	12.50	1.25
	Nominal	11.50	0.25	11.50	0.25
HDT 6/8	Maximum	10.50	-1.75	10.50	-1.75
	Nominal	9.50	-2.75	9.50	-2.75
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	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 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	-10.25	-10.25	-16.25	-16.25
	Nominal	-11.25	-11.25	-17.25	-17.25
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-10.50	-10.50	-16.25	-16.25
	Nominal	-11.50	-11.50	-17.25	-17.25
LE1M, CS Mode1 LE1M	Maximum	-10.50	-10.50	-16.25	-16.25
	Nominal	-11.50	-11.50	-17.25	-17.25
LE2M, CS Mode1 LE2M	Maximum	-9.50	-9.50	-15.25	-15.25
	Nominal	-10.50	-10.50	-16.25	-16.25
HDR4	Maximum	-8.25	-8.25	-14.00	-14.00
	Nominal	-9.25	-9.25	-15.00	-15.00
HDR8	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
(X)HDRPS2	Maximum	-8.00	-8.00	-13.75	-13.75
	Nominal	-9.00	-9.00	-14.75	-14.75
(X)HDRPM 4/6/8	Maximum	-5.75	-5.75	-11.50	-11.50
	Nominal	-6.75	-6.75	-12.50	-12.50
(X)HDRPM 12/16	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
(X)HDRPL 8/12/16	Maximum	-2.50	-2.50	-8.50	-8.50
	Nominal	-3.50	-3.50	-9.50	-9.50
(X)HDRPL 24/32	Maximum	-2.75	-2.75	-8.50	-8.50
	Nominal	-3.75	-3.75	-9.50	-9.50
HDT 2/3	Maximum	-7.75	-7.75	-13.75	-13.75
	Nominal	-8.75	-8.75	-14.75	-14.75
HDT4	Maximum	-8.00	-8.00	-13.75	-13.75
	Nominal	-9.00	-9.00	-14.75	-14.75
HDT 6/8	Maximum	-8.00	-8.00	-13.75	-13.75
	Nominal	-9.00	-9.00	-14.75	-14.75
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	-10.00	-10.00	-16.25	-16.25
	Nominal	-11.00	-11.00	-17.25	-17.25
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-10.00	-10.00	-16.25	-16.25
	Nominal	-11.00	-11.00	-17.25	-17.25
LE1M, CS Mode1 LE1M	Maximum	-10.00	-10.00	-16.25	-16.25
	Nominal	-11.00	-11.00	-17.25	-17.25
LE2M, CS Mode1 LE2M	Maximum	-9.00	-9.00	-15.25	-15.25
	Nominal	-10.00	-10.00	-16.25	-16.25
HDR4	Maximum	-8.00	-8.00	-14.00	-14.00
	Nominal	-9.00	-9.00	-15.00	-15.00
HDR8	Maximum	-6.75	-6.75	-13.00	-13.00
	Nominal	-7.75	-7.75	-14.00	-14.00
(X)HDRPS2	Maximum	-7.50	-7.50	-13.75	-13.75
	Nominal	-8.50	-8.50	-14.75	-14.75
(X)HDRPM 4/6/8	Maximum	-5.50	-5.50	-11.50	-11.50
	Nominal	-6.50	-6.50	-12.50	-12.50
(X)HDRPM 12/16	Maximum	-5.25	-5.25	-11.50	-11.50
	Nominal	-6.25	-6.25	-12.50	-12.50
(X)HDRPL 8/12/16	Maximum	-2.25	-2.25	-8.50	-8.50
	Nominal	-3.25	-3.25	-9.50	-9.50
(X)HDRPL 24/32	Maximum	-2.50	-2.50	-8.50	-8.50
	Nominal	-3.50	-3.50	-9.50	-9.50
HDT 2/3	Maximum	-7.50	-7.50	-13.75	-13.75
	Nominal	-8.50	-8.50	-14.75	-14.75
HDT4	Maximum	-7.50	-7.50	-13.75	-13.75
	Nominal	-8.50	-8.50	-14.75	-14.75
HDT 6/8	Maximum	-7.50	-7.50	-13.75	-13.75
	Nominal	-8.50	-8.50	-14.75	-14.75
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	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	-8.75	-8.75	-15.50	-15.50
	Nominal	-9.75	-9.75	-16.50	-16.50
EDR 2/3	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-8.75	-8.75	-15.50	-15.50
	Nominal	-9.75	-9.75	-16.50	-16.50
LE1M, CS Mode1 LE1M	Maximum	-8.75	-8.75	-15.50	-15.50
	Nominal	-9.75	-9.75	-16.50	-16.50
LE2M, CS Mode1 LE2M	Maximum	-7.75	-7.75	-14.75	-14.75
	Nominal	-8.75	-8.75	-15.75	-15.75
HDR4	Maximum	-6.50	-6.50	-13.50	-13.50
	Nominal	-7.50	-7.50	-14.50	-14.50
HDR8	Maximum	-5.50	-5.50	-12.50	-12.50
	Nominal	-6.50	-6.50	-13.50	-13.50
(X)HDRPS2	Maximum	-6.25	-6.25	-13.00	-13.00
	Nominal	-7.25	-7.25	-14.00	-14.00
(X)HDRPM 4/6/8	Maximum	-4.00	-4.00	-11.00	-11.00
	Nominal	-5.00	-5.00	-12.00	-12.00
(X)HDRPM 12/16	Maximum	-4.00	-4.00	-10.75	-10.75
	Nominal	-5.00	-5.00	-11.75	-11.75
(X)HDRPL 8/12/16	Maximum	-1.00	-1.00	-7.75	-7.75
	Nominal	-2.00	-2.00	-8.75	-8.75
(X)HDRPL 24/32	Maximum	-1.00	-1.75	-8.00	-8.00
	Nominal	-2.00	-2.75	-9.00	-9.00
HDT 2/3	Maximum	-6.25	-6.25	-13.00	-13.00
	Nominal	-7.25	-7.25	-14.00	-14.00
HDT4	Maximum	-6.25	-6.25	-13.00	-13.00
	Nominal	-7.25	-7.25	-14.00	-14.00
HDT 6/8	Maximum	-6.25	-6.25	-13.00	-13.00
	Nominal	-7.25	-7.25	-14.00	-14.00
CS Mode2	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
CS Mode1 LE2M 2.0	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.

Table 1-10
Simultaneous Transmission Scenarios

No.	Capable Transm Configuration	Body
1	Cellular + 2.4 GHz Wi-Fi MIMO + WPT	Yes
2	Cellular + 5/6 GHz Wi-Fi MIMO + WPT	Yes
3	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
4	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
5	Cellular + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
6	Cellular + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	Cellular + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
8	Cellular + NB U-NII (TXBF) + WPT	Yes
9	Cellular + 2.4 GHz Bluetooth + NB U-NII + WPT	Yes
10	Cellular + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT	Yes
11	Cellular + 2.4 GHz Bluetooth (TXBF) + NB U-NII + WPT	Yes
12	Cellular + 2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF) + WPT	Yes
13	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
14	Cellular + 2.4 GHz Wi-Fi + NB U-NII + WPT	Yes
15	Cellular + 2.4 GHz Wi-Fi + NB U-NII (TXBF) + WPT	Yes
16	Cellular + 2.4 GHz Wi-Fi MIMO + NB U-NII + WPT	Yes
17	Cellular + 2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF) + WPT	Yes
18	Cellular + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
19	Cellular + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	Cellular + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT	Yes
21	Cellular + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
22	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
23	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT*	Yes
24	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII + WPT*	Yes
25	Cellular + 2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT*	Yes
26	Cellular + 2.4 GHz Wi-Fi + 802.5.4 + WPT**	Yes
27	Cellular + 5/6 GHz Wi-Fi + 802.5.4 + WPT	Yes
28	Cellular + 5/6 GHz Wi-Fi MIMO + 802.5.4 + WPT	Yes
29	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.5.4 + WPT**	Yes
30	Cellular + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.5.4 + WPT**	Yes
31	Cellular + 802.5.4 + NB U-NII + WPT	Yes
32	Cellular + 802.5.4 + NB U-NII (TXBF) + WPT	Yes
33	Cellular + 2.4 GHz Wi-Fi + 802.5.4 + NB U-NII + WPT**	Yes
34	Cellular + 2.4 GHz Wi-Fi + 802.5.4 + NB U-NII (TXBF) + WPT**	Yes
35	2.4 GHz Wi-Fi MIMO + WPT	Yes
36	5/6 GHz Wi-Fi MIMO + WPT	Yes
37	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
38	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
39	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
40	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
41	2.4 GHz Bluetooth (TXBF) + WPT	Yes
42	NB U-NII (TXBF) + WPT	Yes
43	2.4 GHz Bluetooth + NB U-NII + WPT	Yes
44	2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT	Yes
45	2.4 GHz Bluetooth (TXBF) + NB U-NII + WPT	Yes
46	2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF) + WPT	Yes
47	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
48	2.4 GHz Wi-Fi + NB U-NII + WPT	Yes
49	2.4 GHz Wi-Fi + NB U-NII (TXBF) + WPT	Yes
50	2.4 GHz Wi-Fi MIMO + NB U-NII + WPT	Yes
51	2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF) + WPT	Yes
52	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT	Yes
53	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
54	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT	Yes
55	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
56	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
57	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT*	Yes
58	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII + WPT*	Yes
59	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT*	Yes
60	2.4 GHz Wi-Fi + 802.5.4 + WPT**	Yes
61	5/6 GHz Wi-Fi + 802.5.4 + WPT	Yes
62	5/6 GHz Wi-Fi MIMO + 802.5.4 + WPT	Yes
63	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.5.4 + WPT**	Yes
64	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.5.4 + WPT**	Yes
65	802.5.4 + NB U-NII + WPT	Yes
66	802.5.4 + NB U-NII (TXBF) + WPT	Yes
67	2.4 GHz Wi-Fi + 802.5.4 + NB U-NII + WPT**	Yes
68	2.4 GHz Wi-Fi + 802.5.4 + NB U-NII (TXBF) + WPT**	Yes

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

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 4 LB + Cellular Ant 2 MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 2 MB/HB: LTE B24/7/30/66/25
2	Cellular Ant 4 LB + Cellular Ant 3a MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 3a MB/HB: LTE B24/7/30/66/25
3	Cellular Ant 4 LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 1b MB/HB: LTE B24/7/30/66/25
4	Cellular Ant 3b LB + Cellular 4 MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 4 MB/HB: LTE B24/7/30/66/25
5	Cellular Ant 3b LB + Cellular 2 MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 2b MB/HB: LTE B24/7/30/66/25
6	Cellular Ant 3b LB + Cellular 3a MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 3a MB/HB: LTE B24/7/30/66/25
7	Cellular Ant 3b LB + Cellular 1b MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14/17/26 LTE Band transmitting from Ant 1b MB/HB: LTE B24/7/30/66/25

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

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

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + WPT	Yes
2	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + WPT	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
4	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
5	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
6	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF)	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

1. *2.4GHz WIFI and 2.4 GHz Bluetooth can transmit simultaneously on different antennas.
2. **2.4 GHz WIFI and 802.15.4 can transmit simultaneously on different antennas.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. EN-DC operation is supported with LTE + 5G NR FR1 scenarios. The LTE anchor bands are shown in the NR FR1 checklist.
5. This device supports VoWIFI.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT/NB UNII/802.15.4

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna WF5T, Antenna WF5B and Antenna 1b. Additional testing for U-NII-1 Antenna WF5T, Antenna WF5B and Antenna 1b SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/802.15.4/NB UNII chipset in this device is produced by three different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. The worst-case variant was used for evaluating SAR compliance.

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.

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. Therefore, SAR tests were not required for 802.11ax/be RU/MRU based on the maximum allowed output powers of OFDM modes and the reported SAR values.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 616217 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (IPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

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

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

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

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mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

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

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

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

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 48, LTE Band 5, LTE Band 66, and LTE Band 7 with two component carriers in the uplink.

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

1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (6-8 GHz)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

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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
RF Exposure TAS Cellular Validation Test Report	1C2604030026-31.BCG
RF Exposure TAS Connectivity Validation Test Report	1C2604030026-30.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Tablet				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 106 (896.7 - 900.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2486.5 - 2687.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 106: 1.4 MHz, 3 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	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)		
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)		
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)		
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)		
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)		
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)		
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)		
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)		
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)		
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A		
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)		
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A		
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	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 106: 1.4 MHz	896.7 (134299)	898.5 (134317)	900.3 (134335)		
LTE Band 106: 3 MHz	N/A	898.5 (134317)	N/A		
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)		
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)		
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)		
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)		
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)		
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)		
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)		
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)		
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)		
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)		
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)		
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)		
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)		
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)		
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)		
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)		
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)		
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)		
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)		
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)		
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A		
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)		
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)		
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55785)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	UL UE Cat 18, DL UE Cat 19				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Carrier Aggregation Possible					
Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation and downlink MIMO features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, WiFi Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

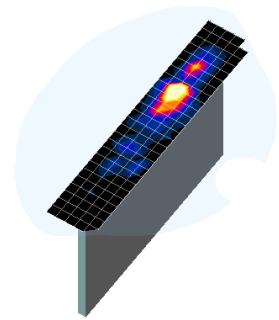


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance. Body exposure for all §2.1093-Portable devices (including tablets) must be demonstrated at distances not to exceed 5 mm. This separation distance of 5 mm between the tablet and the phantom was used for evaluating SAR compliance. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

6.3 RF Exposure Limits for Frequencies below 6 GHz

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

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

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

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6.4 RF Exposure Limits for Frequencies above 6 GHz

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

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

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

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

Note: 1.0 mW/cm² is 10 W/m²

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

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

7.2 3G SAR Test Reduction Procedure

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

7.3 Procedures Used to Establish RF Signal for SAR

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

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

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

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

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7.4.2 Body SAR Measurements

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

7.4.3 SAR Measurements with Rel 5 HSDPA

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

7.4.4 SAR Measurements with Rel 6 HSUPA

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

7.4.5 SAR Measurement Conditions for DC-HSDPA

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

7.5 SAR Measurement Conditions for LTE

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

7.5.1 Spectrum Plots for RB Configurations

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

7.5.2 MPR

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

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7.5.3 A-MPR

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

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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

7.5.5 TDD

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

7.5.6 Downlink Only Carrier Aggregation

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

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7.6 SAR Testing with 802.11 Transmitters

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

7.6.1 General Device Setup

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

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

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

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

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

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

7.6.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 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.

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

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

7.6.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.6.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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

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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
 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	19.38	19.27	19.28	18.35	18.34	18.28	-
6	HSDPA	Subtest 1	18.95	18.88	18.89	18.17	18.02	18.05	0
6		Subtest 2	18.63	18.49	18.45	17.73	17.68	17.62	0
6		Subtest 3	18.28	18.82	18.15	17.45	17.36	17.22	0.5
6		Subtest 4	18.06	18.01	17.99	17.22	17.10	17.07	0.5
6	HSUPA	Subtest 1	18.64	18.59	18.55	17.79	17.65	17.64	0
6		Subtest 2	16.75	16.67	16.68	15.79	15.73	15.57	2
6		Subtest 3	17.31	17.27	17.28	16.26	16.36	16.33	1
6		Subtest 4	16.33	16.24	16.20	15.26	15.20	15.03	2
6		Subtest 5	18.59	18.57	18.53	17.76	17.62	17.61	0
8	DC-HSDPA	Subtest 1	19.10	19.04	19.18	18.30	18.32	18.23	0
8		Subtest 2	18.00	18.12	18.45	17.37	17.22	17.26	0
8		Subtest 3	17.57	17.51	17.70	16.92	16.91	16.66	0.5
8		Subtest 4	17.58	17.52	17.60	16.78	16.71	16.41	0.5

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Table 8-2
***P*_{Limit} Antenna 2**

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	24.98	24.95	24.99	18.30	18.25	18.11	-
6	HSDPA	Subtest 1	24.70	24.72	24.66	18.11	18.01	17.90	0
6		Subtest 2	24.36	24.35	24.27	17.81	17.63	17.50	0
6		Subtest 3	24.08	24.07	23.99	17.51	17.34	17.18	0.5
6		Subtest 4	23.82	23.86	23.74	17.28	17.07	17.02	0.5
6	HSUPA	Subtest 1	24.30	24.38	24.32	17.72	17.60	17.51	0
6		Subtest 2	23.02	23.08	23.04	16.47	16.34	16.22	2
6		Subtest 3	23.88	23.96	23.89	16.59	16.51	16.52	1
6		Subtest 4	22.92	23.00	22.94	16.38	16.25	16.14	2
6		Subtest 5	24.59	24.67	24.62	18.03	17.91	17.80	0
8	DC-HSDPA	Subtest 1	24.74	24.91	24.90	18.29	18.22	18.21	0
8		Subtest 2	24.07	24.08	23.91	17.56	17.60	17.58	0
8		Subtest 3	23.44	23.52	23.48	17.03	17.02	17.07	0.5
8		Subtest 4	23.54	23.55	23.57	17.06	17.04	17.03	0.5

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Table 8-3
***P*_{Limit} Antenna 3a**

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	21.55	21.39	21.40	21.05	21.04	21.02	-
6	HSDPA	Subtest 1	21.17	21.10	21.10	21.01	20.93	21.02	0
6		Subtest 2	20.82	20.73	20.74	20.65	20.55	20.58	0
6		Subtest 3	20.55	20.50	20.49	20.35	20.26	20.28	0.5
6		Subtest 4	20.29	20.27	20.24	20.10	20.00	20.04	0.5
6	HSUPA	Subtest 1	20.88	20.81	20.77	20.72	20.59	20.63	0
6		Subtest 2	18.27	18.23	18.22	18.26	18.21	18.24	2
6		Subtest 3	19.21	19.26	19.24	19.12	19.16	19.15	1
6		Subtest 4	18.45	18.40	18.38	18.28	18.15	18.20	2
6		Subtest 5	20.25	20.26	20.21	20.17	20.23	20.19	0
8	DC-HSDPA	Subtest 1	20.78	20.79	20.57	20.64	20.85	20.83	0
8		Subtest 2	20.24	20.26	20.21	20.11	20.16	20.20	0
8		Subtest 3	19.80	19.76	19.81	19.65	19.69	19.73	0.5
8		Subtest 4	19.71	19.73	19.75	19.62	19.63	19.65	0.5

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Table 8-4
***P*_{Limit} Antenna 3b**

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.63	20.66	20.67	-
6	HSDPA	Subtest 1	20.51	20.61	20.58	0
6		Subtest 2	20.21	20.27	20.25	0
6		Subtest 3	19.99	20.00	19.94	0.5
6		Subtest 4	19.70	19.77	19.72	0.5
6	HSUPA	Subtest 1	20.42	20.47	20.34	0
6		Subtest 2	18.27	18.36	18.39	2
6		Subtest 3	19.42	19.50	19.47	1
6		Subtest 4	18.94	19.00	18.94	2
6		Subtest 5	20.25	20.34	20.24	0
8	DC-HSDPA	Subtest 1	20.26	20.39	20.44	0
8		Subtest 2	20.23	20.31	20.24	0
8		Subtest 3	19.87	20.02	19.92	0.5
8		Subtest 4	19.75	19.73	19.73	0.5

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Table 8-5
***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	23.47	23.45	23.48	23.22	23.26	23.33	16.52	16.30	16.39	-
6	HSDPA	Subtest 1	23.38	23.32	23.35	23.04	23.00	23.16	16.37	16.27	16.26	0
6		Subtest 2	23.11	23.14	23.12	22.51	22.56	22.83	15.92	15.88	15.86	0
6		Subtest 3	22.90	22.76	22.73	22.30	22.37	22.46	15.73	15.65	15.60	0.5
6		Subtest 4	22.60	22.63	22.61	22.09	22.11	22.29	15.49	15.39	15.38	0.5
6	HSUPA	Subtest 1	23.27	23.11	23.22	22.36	22.38	22.52	15.85	15.90	15.83	0
6		Subtest 2	22.11	22.12	22.14	21.08	21.04	21.26	14.50	14.36	14.34	2
6		Subtest 3	23.08	23.09	23.13	21.89	21.92	21.09	15.33	15.20	15.21	1
6		Subtest 4	21.97	21.90	21.93	20.94	20.95	20.91	14.34	14.24	14.22	2
6		Subtest 5	23.18	23.20	23.17	22.61	22.63	22.81	16.01	15.93	15.87	0
8	DC-HSDPA	Subtest 1	23.21	23.16	23.19	22.93	23.11	23.15	16.28	16.19	16.25	0
8		Subtest 2	23.35	23.14	23.18	22.04	22.10	22.27	15.82	15.81	15.85	0
8		Subtest 3	22.82	22.63	22.81	22.11	22.18	21.88	15.31	15.30	15.34	0.5
8		Subtest 4	22.67	22.61	22.69	21.68	21.72	21.78	15.35	15.36	15.38	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 8-6
LTE Band 71 Measured P_{Limit} Antenna 3b – 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	21.11	0	0
	1	50	21.07		0
	1	99	20.97		0
	50	0	21.15	0-1	0
	50	25	21.04		0
	50	50	21.08		0
	100	0	21.10		0
16QAM	1	0	21.02	0-1	0
	1	50	21.05		0
	1	99	21.06		0
	50	0	20.91	0-2	0
	50	25	20.89		0
	50	50	20.96		0
	100	0	21.04		0
64QAM	1	0	21.09	0-2	0
	1	50	21.02		0
	1	99	21.07		0
	50	0	20.88	0-3	0
	50	25	20.92		0
	50	50	20.94		0
	100	0	20.98		0
256QAM	1	0	19.49	0-5	1
	1	50	19.50		1
	1	99	19.45		1
	50	0	19.61		1
	50	25	19.67		1
	50	50	19.70		1
	100	0	19.73		1

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Table 8-7
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	22.84	0	0
	1	50	23.10		0
	1	99	22.81		0
	50	0	23.09	0-1	0
	50	25	23.15		0
	50	50	23.17		0
	100	0	23.09		0
16QAM	1	0	22.98	0-1	0
	1	50	22.99		0
	1	99	22.96		0
	50	0	22.78	0-2	0
	50	25	22.75		0
	50	50	22.72		0
	100	0	22.74		0
64QAM	1	0	22.96	0-2	0
	1	50	22.94		0
	1	99	22.48		0
	50	0	21.82	0-3	0.8
	50	25	21.75		0.8
	50	50	21.73		0.8
	100	0	21.77		0.8
256QAM	1	0	19.89	0-5	2.8
	1	50	19.96		2.8
	1	99	19.82		2.8
	50	0	19.99		2.8
	50	25	19.90		2.8
	50	50	19.95		2.8
	100	0	20.00		2.8

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8.2.2

LTE Band 12

Table 8-8
LTE Band 12 Measured P_{Limit} Antenna 3b – 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	20.66	0	0
	1	25	20.77		0
	1	49	20.61		0
	25	0	20.66	0-1	0
	25	12	20.73		0
	25	25	20.75		0
	50	0	20.74		0
16QAM	1	0	20.55	0-1	0
	1	25	20.59		0
	1	49	20.70		0
	25	0	20.25	0-2	0
	25	12	20.24		0
	25	25	20.30		0
	50	0	20.38		0
64QAM	1	0	20.42	0-2	0
	1	25	20.46		0
	1	49	20.68		0
	25	0	20.38	0-3	0
	25	12	20.27		0
	25	25	20.30		0
	50	0	20.39		0
256QAM	1	0	19.54	0-5	1.2
	1	25	19.58		1.2
	1	49	19.72		1.2
	25	0	19.84		1.2
	25	12	19.76		1.2
	25	25	19.80		1.2
	50	0	19.86		1.2

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Table 8-9
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	22.30	0	0
	1	25	22.41		0
	1	49	22.35		0
	25	0	22.39	0-1	0
	25	12	22.45		0
	25	25	22.46		0
	50	0	22.40		0
16QAM	1	0	22.24	0-1	0
	1	25	22.27		0
	1	49	22.26		0
	25	0	22.11	0-2	0
	25	12	22.12		0
	25	25	22.09		0
	50	0	22.13		0
64QAM	1	0	22.28	0-2	0
	1	25	22.22		0
	1	49	22.21		0
	25	0	22.09	0-3	0.8
	25	12	22.12		0.8
	25	25	22.08		0.8
	50	0	22.15		0.8
256QAM	1	0	19.82	0-5	2.8
	1	25	19.84		2.8
	1	49	19.90		2.8
	25	0	19.83		2.8
	25	12	19.85		2.8
	25	25	19.84		2.8
	50	0	19.81		2.8

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8.2.3

LTE Band 13

Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 3b – 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	20.86	0	0
	1	25	20.92		0
	1	49	20.85		0
	25	0	21.05	0-1	0
	25	12	20.94		0
	25	25	20.99		0
	50	0	20.91		0
16QAM	1	0	20.62	0-1	0
	1	25	20.73		0
	1	49	20.68		0
	25	0	20.40	0-2	0
	25	12	20.41		0
	25	25	20.46		0
	50	0	20.51		0
64QAM	1	0	20.59	0-2	0
	1	25	20.67		0
	1	49	20.69		0
	25	0	20.41	0-3	0
	25	12	20.36		0
	25	25	20.41		0
	50	0	20.50		0
256QAM	1	0	19.68	0-5	0.9
	1	25	19.77		0.9
	1	49	19.76		0.9
	25	0	19.89		0.9
	25	12	19.86		0.9
	25	25	19.85		0.9
	50	0	19.81		0.9

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Table 8-11
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	22.50	0	0
	1	25	22.61		0
	1	49	22.55		0
	25	0	22.65	0-1	0
	25	12	22.62		0
	25	25	22.64		0
	50	0	22.59		0
16QAM	1	0	22.37	0-1	0
	1	25	22.44		0
	1	49	22.48		0
	25	0	22.07	0-2	0
	25	12	22.05		0
	25	25	22.03		0
	50	0	22.13		0
64QAM	1	0	22.19	0-2	0
	1	25	22.22		0
	1	49	22.30		0
	25	0	22.08	0-3	0.7
	25	12	22.05		0.7
	25	25	22.04		0.7
	50	0	22.14		0.7
256QAM	1	0	19.83	0-5	2.7
	1	25	19.92		2.7
	1	49	19.89		2.7
	25	0	20.00		2.7
	25	12	20.08		2.7
	25	25	20.03		2.7
	50	0	20.10		2.7

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8.2.4

LTE Band 14

Table 8-12
LTE Band 14 Measured P_{Limit} Antenna 3b – 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	20.83	0	0
	1	25	20.90		0
	1	49	20.93		0
	25	0	20.95	0-1	0
	25	12	20.98		0
	25	25	20.95		0
	50	0	20.92		0
16QAM	1	0	20.59	0-1	0
	1	25	20.66		0
	1	49	20.71		0
	25	0	20.37	0-2	0
	25	12	20.38		0
	25	25	20.36		0
	50	0	20.38		0
64QAM	1	0	20.61	0-2	0
	1	25	20.59		0
	1	49	20.70		0
	25	0	20.36	0-3	0
	25	12	20.37		0
	25	25	20.35		0
	50	0	20.39		0
256QAM	1	0	19.70	0-5	0.9
	1	25	19.67		0.9
	1	49	19.76		0.9
	25	0	19.86		0.9
	25	12	19.90		0.9
	25	25	19.87		0.9
	50	0	19.85		0.9

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Table 8-13
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	22.83	0	0
	1	25	23.00		0
	1	49	22.81		0
	25	0	22.90	0-1	0
	25	12	22.95		0
	25	25	22.97		0
	50	0	22.96		0
16QAM	1	0	22.84	0-1	0
	1	25	22.89		0
	1	49	22.92		0
	25	0	22.68	0-2	0.2
	25	12	22.57		0.2
	25	25	22.54		0.2
	50	0	22.60		0.2
64QAM	1	0	22.65	0-2	0.2
	1	25	22.82		0.2
	1	49	22.77		0.2
	25	0	22.13	0-3	1.2
	25	12	22.08		1.2
	25	25	22.07		1.2
	50	0	22.12		1.2
256QAM	1	0	19.89	0-5	3.2
	1	25	19.87		3.2
	1	49	19.88		3.2
	25	0	20.02		3.2
	25	12	20.06		3.2
	25	25	20.05		3.2
	50	0	20.11		3.2

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8.2.5

LTE Band 26

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

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.66	20.66	20.71	0	0
	1	25	20.69	20.82	20.65		0
	1	49	20.72	20.78	20.77		0
	25	0	20.76	20.80	20.79	0-1	0
	25	12	20.74	20.82	20.70		0
	25	25	20.78	20.81	20.75		0
	50	0	20.80	20.81	20.77		0
16QAM	1	0	20.73	20.77	20.74	0-1	0
	1	25	20.75	20.78	20.76		0
	1	49	20.79	20.73	20.73		0
	25	0	20.33	20.48	20.28	0-2	0
	25	12	20.40	20.52	20.29		0
	25	25	20.38	20.46	20.25		0
	50	0	20.33	20.49	20.28		0
64QAM	1	0	20.61	20.60	20.69	0-2	0
	1	25	20.68	20.64	20.68		0
	1	49	20.62	20.76	20.77		0
	25	0	20.73	20.68	20.72	0-3	0
	25	12	20.68	20.59	20.75		0
	25	25	20.71	20.58	20.61		0
	50	0	20.77	20.60	20.72		0
256QAM	1	0	19.87	19.75	19.86	0-5	0.8
	1	25	19.59	19.46	19.69		0.8
	1	49	19.54	19.47	19.61		0.8
	25	0	19.86	19.85	19.83		0.8
	25	12	19.83	19.89	19.81		0.8
	25	25	19.92	19.86	19.90		0.8
	50	0	19.85	19.74	19.85		0.8

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Table 8-15
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	23.04	22.91	22.94	0	0
	1	25	23.09	22.96	22.95		0
	1	49	23.06	22.95	22.96		0
	25	0	23.07	22.91	22.97	0-1	0
	25	12	23.10	22.95	22.99		0
	25	25	23.09	22.97	22.97		0
	50	0	22.98	22.93	22.90		0
16QAM	1	0	22.90	22.80	22.70	0-1	0
	1	25	22.64	22.72	22.68		0
	1	49	22.70	22.73	22.71		0
	25	0	22.49	22.58	22.54	0-2	0.2
	25	12	22.64	22.51	22.50		0.2
	25	25	22.57	22.62	22.59		0.2
	50	0	22.61	22.66	22.63		0.2
64QAM	1	0	22.30	22.29	22.29	0-2	0.2
	1	25	22.24	22.32	22.35		0.2
	1	49	22.49	22.44	22.41		0.2
	25	0	21.55	21.59	21.61	0-3	1.2
	25	12	21.59	21.60	21.70		1.2
	25	25	21.63	21.61	21.62		1.2
	50	0	21.60	21.67	21.63		1.2
256QAM	1	0	19.98	19.94	19.96	0-5	3.2
	1	25	19.95	19.92	19.97		3.2
	1	49	19.91	19.89	19.87		3.2
	25	0	19.87	19.81	19.84		3.2
	25	12	19.82	19.88	19.85		3.2
	25	25	19.84	19.81	19.83		3.2
	50	0	19.73	19.74	19.70		3.2

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8.2.6

LTE Band 5

Table 8-16
LTE Band 5 (Cell) Measured P_{Limit} Antenna 3b – 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.42	0	0
	1	25	20.39		0
	1	49	20.38		0
	25	0	20.47	0-1	0
	25	12	20.44		0
	25	25	20.43		0
	50	0	20.41		0
16QAM	1	0	20.35	0-1	0
	1	25	20.41		0
	1	49	20.39		0
	25	0	20.22	0-2	0
	25	12	20.19		0
	25	25	20.21		0
	50	0	20.25		0
64QAM	1	0	20.39	0-2	0
	1	25	20.38		0
	1	49	20.35		0
	25	0	20.25	0-3	0
	25	12	20.20		0
	25	25	20.23		0
	50	0	20.25		0
256QAM	1	0	19.62	0-5	0.9
	1	25	19.75		0.9
	1	49	19.68		0.9
	25	0	19.88		0.9
	25	12	19.90		0.9
	25	25	19.86		0.9
	50	0	19.94		0.9

Table 8-17
LTE Band 5 (Cell) Measured P_{Limit} Antenna 3b Uplink Carrier Aggregation

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)
LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	20.40	20.42

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Table 8-18
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	23.16	0	0
	1	25	23.22		0
	1	49	23.14		0
	25	0	23.16	0-1	0
	25	12	23.15		0
	25	25	23.12		0
	50	0	23.13		0
16QAM	1	0	22.88	0-1	0
	1	25	22.92		0
	1	49	22.81		0
	25	0	22.72	0-2	0.1
	25	12	22.70		0.1
	25	25	22.69		0.1
	50	0	22.77		0.1
64QAM	1	0	22.87	0-2	0.1
	1	25	23.00		0.1
	1	49	22.98		0.1
	25	0	22.25	0-3	1.1
	25	12	22.23		1.1
	25	25	22.26		1.1
	50	0	22.31		1.1
256QAM	1	0	19.95	0-5	3.1
	1	25	19.89		3.1
	1	49	20.02		3.1
	25	0	20.20		3.1
	25	12	20.24		3.1
	25	25	20.23		3.1
	50	0	20.28		3.1

Table 8-19
LTE Band 5 (Cell) Measured P_{Limit} Antenna 4 Uplink Carrier Aggregation

Combination	PCC Band	PCC Bandwidth [MHz]	PCC				Modulation	PCC UL# RB	PCC UL RB Offset	SCC						Modulation	SCC UL# RB	SCC UL RB Offset	Power	
			PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]				SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]				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	22.97	23.16

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8.2.7

LTE Band 106

Table 8-20
LTE Band 106 Measured P_{Limit} Antenna 3b – 3 MHz Bandwidth

LTE Band 106 3 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			134317 (898.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.90	0	0
	1	7	22.05		0
	1	14	21.84		0
	8	0	22.05	0-1	0
	8	4	22.08		0
	8	7	22.03		0
	15	0	22.02		0
16QAM	1	0	21.97	0-1	0
	1	7	21.93		0
	1	14	21.98		0
	8	0	21.94	0-2	0
	8	4	21.96		0
	8	7	21.91		0
	15	0	21.90		0
64QAM	1	0	21.89	0-2	0
	1	7	21.94		0
	1	14	21.93		0
	8	0	21.90	0-3	0.2
	8	4	21.91		0.2
	8	7	21.97		0.2
	15	0	21.85		0.2
256QAM	1	0	19.88	0-5	2.2
	1	7	19.99		2.2
	1	14	19.84		2.2
	8	0	20.10		2.2
	8	4	20.12		2.2
	8	7	20.09		2.2
	15	0	20.08		2.2

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Table 8-21
LTE Band 106 Measured P_{Limit} Antenna 4 – 3 MHz Bandwidth

LTE Band 106 3 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			134317 (898.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.99	0	0
	1	7	23.17		0
	1	14	22.98		0
	8	0	23.06	0-1	0
	8	4	23.05		0
	8	7	23.11		0
	15	0	23.09		0
16QAM	1	0	22.96	0-1	0
	1	7	23.17		0
	1	14	22.98		0
	8	0	22.82	0-2	0.3
	8	4	22.86		0.3
	8	7	22.87		0.3
	15	0	23.05		0.3
64QAM	1	0	22.99	0-2	0.3
	1	7	22.89		0.3
	1	14	22.60		0.3
	8	0	21.87	0-3	1.3
	8	4	21.92		1.3
	8	7	21.74		1.3
	15	0	21.85		1.3
256QAM	1	0	19.80	0-5	3.3
	1	7	19.91		3.3
	1	14	19.78		3.3
	8	0	19.85		3.3
	8	4	19.98		3.3
	8	7	20.04		3.3
	15	0	20.02		3.3

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8.2.8

LTE Band 66

Table 8-22

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

LTE Band 66 20 MHz Bandwidth							LTE Band 66 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			132072 (1720.0 MHz)	132322 (1745.0 MHz)						132572 (1770.0 MHz)			
			Conducted Power [dBm]							Conducted Power [dBm]			
QPSK	1	0	19.23	19.19	0	0	QPSK	1	0	18.65	0	0	
	1	50	19.62	19.55		0		1	50	18.71		0	
	1	99	19.41	19.37		0		1	99	18.66		0	
	50	0	19.46	19.54	0-1	0		50	0	18.73	0-1	0	
	50	25	19.61	19.55		0		50	25	18.70		0	
	50	50	19.60	19.56		0		50	50	18.67		0	
	100	0	19.60	19.54		0		100	0	18.69		0	
16QAM	1	0	19.00	19.12	0-1	0	16QAM	1	0	18.45	0-1	0	
	1	50	19.35	19.43		0		1	50	18.54		0	
	1	99	19.13	19.25		0		1	99	18.30		0	
	50	0	19.02	19.01	0-2	0		50	0	18.57	0-2	0	
	50	25	19.03	19.10		0		50	25	18.58		0	
	50	50	19.06	19.04		0		50	50	18.47		0	
	100	0	19.05	19.05		0		100	0	18.60		0	
64QAM	1	0	18.93	19.06	0-2	0	64QAM	1	0	18.45	0-2	0	
	1	50	19.24	19.26		0		1	50	18.60		0	
	1	99	18.96	19.15		0		1	99	18.40		0	
	50	0	19.02	18.96	0-3	0		50	0	18.37	0-3	0	
	50	25	19.03	19.03		0		50	25	18.35		0	
	50	50	19.06	19.01		0		50	50	18.25		0	
	100	0	19.07	19.08		0		100	0	18.31		0	
256QAM	1	0	18.91	19.05	0-5	0	256QAM	1	0	18.30	0-5	0	
	1	50	19.16	19.25		0		1	50	18.45		0	
	1	99	18.97	19.11		0		1	99	18.46		0	
	50	0	19.02	18.98		0		50	0	18.29		0	
	50	25	19.04	19.05		0		50	25	18.29		0	
	50	50	19.08	19.02		0		50	50	18.19		0	
	100	0	19.08	19.09		0		100	0	18.30		0	

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Table 8-23
LTE Band 66 (AWS) Measured P_{Limit} Antenna 2 – 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							LTE Band 66 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			132072 (1720.0 MHz)	132322 (1745.0 MHz)						132572 (1770.0 MHz)			
			Conducted	Power [dBm]						Conducted Power [dBm]			
QPSK	1	0	24.51	24.78	0	0	QPSK	1	0	24.66	0	0	
	1	50	24.61	25.03		0		1	50	24.82		0	
	1	99	24.59	24.86		0		1	99	24.72		0	
	50	0	24.40	24.45	0-1	0.7		50	0	24.32	0-1	1	
	50	25	24.34	24.46		0.7		50	25	24.32		1	
	50	50	24.41	24.45		0.7		50	50	24.41		1	
16QAM	100	0	24.40	24.42	0-1	0.7	100	0	24.38	0-1	1		
	1	0	23.60	23.52		0.7	1	0	23.53		1		
	1	50	23.90	23.70		0.7	1	50	23.68		1		
	1	99	23.71	23.60	0-2	0.7	1	99	23.50	0-2	1		
	50	0	23.00	22.92		1.7	50	0	22.80		2		
	50	25	23.00	22.91		1.7	50	25	22.92		2		
64QAM	50	50	23.05	22.94	0-2	1.7	50	50	22.82	0-2	2		
	100	0	23.03	22.94		1.7	100	0	22.89		2		
	1	0	22.62	22.66		0-2	1.7	1	0		22.57	0-2	2
	1	50	22.83	22.74	1.7		1	50	22.63	2			
	1	99	22.80	22.57	1.7		1	99	22.60	2			
	256QAM	50	0	22.03	21.94	0-3	2.7	50	0	21.86	0-3	3	
50		25	22.05	21.95	2.7		50	25	21.94	3			
50		50	22.07	21.95	2.7		50	50	21.92	3			
100		0	22.09	21.97	0-5	2.7	100	0	21.94	0-5	3		
1		0	19.60	19.55		4.7	1	0	19.50		5		
1		50	19.85	19.69		4.7	1	50	19.70		5		
256QAM	1	99	19.70	19.60	0-5	4.7	1	99	19.50	0-5	5		
	50	0	20.02	19.94		4.7	50	0	19.86		5		
	50	25	20.04	19.95		4.7	50	25	19.93		5		
	50	50	20.07	19.95	0-5	4.7	50	50	19.90	0-5	5		
	100	0	20.09	19.97		4.7	100	0	19.98		5		

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Table 8-24
LTE Band 66 (AWS) Measured P_{Limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							LTE Band 66 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			132072 (1720.0 MHz)	132322 (1745.0 MHz)						132572 (1770.0 MHz)			
			Conducted Power [dBm]							Conducted Power [dBm]			
QPSK	1	0	20.47	20.61	0	0	QPSK	1	0	21.41	0	0	
	1	50	20.65	20.87		0		1	50	21.56		0	
	1	99	20.47	20.66		0		1	99	21.42		0	
	50	0	20.84	20.78	0-1	0		50	0	21.54	0-1	0	
	50	25	20.90	20.94		0		50	25	21.51		0	
	50	50	20.89	20.76		0		50	50	21.61		0	
16QAM	100	0	20.81	20.83	0-1	0	16QAM	100	0	21.54	0-1	0	
	1	0	20.55	20.56		0		1	0	21.20		0	
	1	50	20.81	20.72		0		1	50	21.43		0	
	1	99	20.51	20.60	0-2	0		1	99	21.23	0-2	0	
	50	0	20.53	20.50		0		50	0	21.30		0	
	50	25	20.60	20.57		0		50	25	21.37		0	
64QAM	50	50	20.58	20.60	0-2	0	64QAM	50	50	21.35	0-2	0	
	100	0	20.64	20.61		0		100	0	21.40		0	
	1	0	20.51	20.30		0-2		0	1	0		21.20	0-2
	1	50	20.66	20.51	0			1	50	21.49	0		
	1	99	20.50	20.40	0			1	99	21.27	0		
	256QAM	50	0	20.31	20.24	0-3		0	256QAM	50	0	21.08	0-3
50		25	20.36	20.32	0		50	25		21.13	0		
50		50	20.36	20.37	0		50	50		21.10	0		
100		0	20.39	20.36	0-5	0	100	0		21.17	0-5	0	
1		0	19.40	19.40		0.6	1	0		19.59		1.2	
1		50	19.57	19.57		0.6	1	50		19.70		1.2	
256QAM	1	99	19.41	19.48	0-5	0.6	256QAM	1	99	19.50	0-5	1.2	
	50	0	19.83	19.73		0.6		50	0	19.80		1.2	
	50	25	19.88	19.82		0.6		50	25	19.87		1.2	
	50	50	19.87	19.84	0.6	0.6		50	50	19.85	0.6	1.2	
	100	0	19.90	19.85		0.6		100	0	19.90		1.2	

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Table 8-25
LTE Band 66 (AWS) Measured P_{Limit} Antenna 4 – 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							LTE Band 66 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			132072 (1720.0 MHz)	132322 (1745.0 MHz)						132572 (1770.0 MHz)			
			Conducted Power [dBm]							Conducted Power [dBm]			
QPSK	1	0	22.04	22.11	0	0	QPSK	1	0	21.96	0	0	
	1	50	22.40	22.43		0		1	50	22.46		0	
	1	99	22.19	22.25		0		1	99	22.04		0	
	50	0	22.24	22.35	0-1	0		50	0	22.40	0-1	0	
	50	25	22.35	22.40		0		50	25	22.47		0	
	50	50	22.27	22.39		0		50	50	22.39		0	
16QAM	100	0	22.30	22.32	0-1	0	16QAM	100	0	22.45	0-1	0	
	1	0	22.02	22.07		0		1	0	21.96		0	
	1	50	22.33	22.41		0		1	50	22.12		0	
	1	99	22.08	22.22	0-2	0		1	99	21.84	0-2	0	
	50	0	22.10	22.25		0		50	0	21.99		0	
	50	25	22.18	22.32		0		50	25	21.99		0	
64QAM	50	50	22.13	22.26	0-2	0	64QAM	50	50	22.00	0-2	0	
	100	0	22.23	22.31		0		100	0	22.05		0	
	1	0	22.00	22.08		0-2		0	1	0		21.96	0-2
	1	50	22.10	22.22	0			1	50	22.06	0		
	1	99	22.03	22.21	0			1	99	21.86	0		
	256QAM	50	0	21.85	22.01	0-3		0.7	256QAM	50	0	21.77	0-3
50		25	21.95	22.08	0.7		50	25		21.78	0.5		
50		50	21.88	22.02	0.7		50	50		21.78	0.5		
100		0	22.00	22.09	0-5	0.7	256QAM	100		0	21.81	0-5	0.5
1		0	19.90	19.91		2.7		1		0	19.89		2.5
1		50	19.94	19.99		2.7		1		50	19.86		2.5
256QAM	1	99	19.95	19.98	0-5	2.7		256QAM	1	99	19.76	0-5	2.5
	50	0	19.90	19.94		2.7			50	0	19.88		2.5
	50	25	19.99	19.93		2.7			50	25	19.85		2.5
	50	50	19.93	19.96	0-5	2.7	256QAM		50	50	19.86	0-5	2.5
	100	0	19.82	19.85		2.7			100	0	19.83		2.5

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8.2.9

LTE Band 25

Table 8-26
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	17.88	17.80	17.47	0	0
	1	50	18.26	18.10	17.77		0
	1	99	17.74	17.61	17.36		0
	50	0	18.29	18.17	18.10	0-1	0
	50	25	17.97	17.89	17.84		0
	50	50	17.96	17.87	17.81		0
	100	0	18.24	17.96	17.81		0
16QAM	1	0	17.63	17.81	17.64	0-1	0
	1	50	17.81	18.04	17.90		0
	1	99	17.71	17.71	17.63		0
	50	0	17.81	17.80	17.67	0-2	0
	50	25	17.78	17.81	17.68		0
	50	50	17.81	17.73	17.65		0
	100	0	17.81	17.85	17.71		0
64QAM	1	0	17.99	17.71	18.01	0-2	0
	1	50	18.13	18.00	17.96		0
	1	99	18.09	17.75	17.82		0
	50	0	17.87	17.85	17.73	0-3	0
	50	25	17.84	17.88	17.73		0
	50	50	17.88	17.80	17.71		0
	100	0	17.87	17.90	17.73		0
256QAM	1	0	17.90	17.84	17.79	0-5	0
	1	50	18.03	18.06	17.85		0
	1	99	17.93	17.83	17.72		0
	50	0	17.87	17.86	17.73		0
	50	25	17.84	17.88	17.72		0
	50	50	17.87	17.80	17.70		0
	100	0	17.86	17.91	17.74		0

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Table 8-27
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	17.77	17.89	17.77	0	0
	1	50	18.05	18.04	17.91		0
	1	99	17.66	17.84	17.76		0
	50	0	18.21	18.06	17.98	0-1	0
	50	25	18.11	18.03	17.88		0
	50	50	18.14	18.02	17.92		0
	100	0	18.04	18.03	17.95		0
16QAM	1	0	17.65	17.63	17.68	0-1	0
	1	50	17.60	17.67	17.64		0
	1	99	17.50	17.61	17.56		0
	50	0	17.63	17.57	17.58	0-2	0
	50	25	17.69	17.63	17.60		0
	50	50	17.72	17.61	17.52		0
	100	0	17.52	17.56	17.54		0
64QAM	1	0	17.65	17.68	17.61	0-2	0
	1	50	17.85	17.80	17.70		0
	1	99	17.69	17.60	17.50		0
	50	0	17.56	17.59	17.53	0-3	0
	50	25	17.63	17.65	17.54		0
	50	50	17.54	17.52	17.47		0
	100	0	17.50	17.48	17.46		0
256QAM	1	0	17.77	17.72	17.60	0-5	0
	1	50	17.76	17.72	17.75		0
	1	99	17.53	17.50	17.52		0
	50	0	17.56	17.60	17.50		0
	50	25	17.53	17.55	17.50		0
	50	50	17.54	17.53	17.42		0
	100	0	17.46	17.48	17.44		0

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Table 8-28
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.83	19.81	19.82	0	0
	1	50	20.07	19.95	19.94		0
	1	99	19.82	19.86	19.80		0
	50	0	19.97	19.91	19.94	0-1	0
	50	25	20.04	19.97	19.95		0
	50	50	20.01	19.94	19.94		0
	100	0	20.02	20.00	19.99		0
16QAM	1	0	19.80	19.70	19.79	0-1	0
	1	50	20.04	19.91	19.90		0
	1	99	19.80	19.71	19.75		0
	50	0	19.80	19.72	19.63	0-2	0
	50	25	19.82	19.75	19.64		0
	50	50	19.81	19.70	19.70		0
	100	0	19.85	19.77	19.68		0
64QAM	1	0	19.61	19.60	19.60	0-2	0
	1	50	19.83	19.80	19.61		0
	1	99	19.62	19.60	19.50		0
	50	0	19.58	19.51	19.43	0-3	0
	50	25	19.60	19.53	19.43		0
	50	50	19.59	19.45	19.44		0
	100	0	19.62	19.59	19.45		0
256QAM	1	0	18.96	18.92	18.84	0-5	1
	1	50	19.14	19.15	18.84		1
	1	99	19.01	18.82	18.79		1
	50	0	19.31	19.29	19.17		1
	50	25	19.35	19.28	19.17		1
	50	50	19.35	19.20	19.22		1
	100	0	19.36	19.31	19.22		1

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Table 8-29
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	16.40	16.04	16.24	0	0
	1	50	16.58	16.20	16.35		0
	1	99	16.34	15.95	16.31		0
	50	0	16.61	16.47	16.38	0-1	0
	50	25	16.56	16.44	16.36		0
	50	50	16.48	16.43	16.41		0
	100	0	16.56	16.50	16.44		0
16QAM	1	0	16.05	15.90	15.71	0-1	0
	1	50	16.30	16.23	15.98		0
	1	99	15.93	16.05	15.81		0
	50	0	15.90	15.70	15.65	0-2	0
	50	25	15.90	15.71	15.74		0
	50	50	15.80	15.70	15.73		0
	100	0	15.91	15.74	15.77		0
64QAM	1	0	15.90	15.80	15.60	0-2	0
	1	50	16.07	16.00	15.90		0
	1	99	15.77	15.95	15.75		0
	50	0	15.00	15.73	15.68	0-3	0
	50	25	15.90	15.75	15.76		0
	50	50	15.79	15.75	15.75		0
	100	0	15.93	15.77	15.80		0
256QAM	1	0	15.98	15.68	15.66	0-5	0
	1	50	16.19	15.85	15.92		0
	1	99	15.87	15.81	15.80		0
	50	0	15.90	15.72	15.67		0
	50	25	15.90	15.73	15.75		0
	50	50	15.80	15.72	15.74		0
	100	0	15.93	15.77	15.79		0

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8.2.10

LTE Band 30

Table 8-30
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	17.78	0	0
	1	25	17.84		0
	1	49	17.73		0
	25	0	17.95	0-1	0
	25	12	17.96		0
	25	25	17.89		0
	50	0	17.83		0
16QAM	1	0	17.79	0-1	0
	1	25	17.75		0
	1	49	17.82		0
	25	0	17.61	0-2	0
	25	12	17.56		0
	25	25	17.58		0
	50	0	17.60		0
64QAM	1	0	17.67	0-2	0
	1	25	17.64		0
	1	49	17.77		0
	25	0	17.61	0-3	0
	25	12	17.58		0
	25	25	17.62		0
	50	0	17.60		0
256QAM	1	0	17.83	0-5	0
	1	25	17.71		0
	1	49	17.79		0
	25	0	17.64		0
	25	12	17.61		0
	25	25	17.60		0
	50	0	17.68		0

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Table 8-31
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	15.23	0	0
	1	25	15.35		0
	1	49	15.22		0
	25	0	15.34	0-1	0
	25	12	15.36		0
	25	25	15.32		0
	50	0	15.34		0
16QAM	1	0	15.29	0-1	0
	1	25	15.25		0
	1	49	15.28		0
	25	0	15.21	0-2	0
	25	12	15.26		0
	25	25	15.28		0
	50	0	15.23		0
64QAM	1	0	15.33	0-2	0
	1	25	15.28		0
	1	49	15.27		0
	25	0	15.24	0-3	0
	25	12	15.28		0
	25	25	15.23		0
	50	0	15.21		0
256QAM	1	0	15.28	0-5	0
	1	25	15.30		0
	1	49	15.26		0
	25	0	15.26		0
	25	12	15.24		0
	25	25	15.21		0
	50	0	15.23		0

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Table 8-32
LTE Band 30 Measured P_{Limit} Antenna 3a – 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.04	0	0
	1	25	19.09		0
	1	49	19.03		0
	25	0	19.13	0-1	0
	25	12	19.07		0
	25	25	19.12		0
	50	0	19.06		0
16QAM	1	0	19.02	0-1	0
	1	25	19.08		0
	1	49	19.04		0
	25	0	19.09	0-2	0
	25	12	19.01		0
	25	25	19.04		0
	50	0	19.05		0
64QAM	1	0	18.96	0-2	0
	1	25	18.98		0
	1	49	18.93		0
	25	0	18.91	0-3	0.2
	25	12	18.89		0.2
	25	25	18.87		0.2
	50	0	18.85		0.2
256QAM	1	0	16.61	0-5	2.2
	1	25	16.77		2.2
	1	49	16.69		2.2
	25	0	16.90		2.2
	25	12	16.81		2.2
	25	25	16.86		2.2
	50	0	16.76		2.2

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Table 8-33
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	17.54	0	0
	1	25	17.56		0
	1	49	17.53		0
	25	0	17.42	0-1	0
	25	12	17.37		0
	25	25	17.36		0
	50	0	17.40		0
16QAM	1	0	17.15	0-1	0
	1	25	17.17		0
	1	49	17.13		0
	25	0	17.02	0-2	0
	25	12	17.15		0
	25	25	17.03		0
	50	0	17.14		0
64QAM	1	0	17.23	0-2	0
	1	25	17.26		0
	1	49	17.39		0
	25	0	17.23	0-3	0
	25	12	17.18		0
	25	25	17.11		0
	50	0	17.22		0
256QAM	1	0	16.01	0-5	1.8
	1	25	16.12		1.8
	1	49	15.91		1.8
	25	0	15.77		1.8
	25	12	15.75		1.8
	25	25	15.65		1.8
	50	0	15.66		1.8

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8.2.11

LTE Band 7

Table 8-34
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	19.32	19.26	18.92	0	0
	1	50	19.57	19.53	19.27		0
	1	99	19.38	19.33	19.02		0
	50	0	19.48	19.51	19.42	0-1	0
	50	25	19.53	19.47	19.48		0
	50	50	19.57	19.52	19.50		0
	100	0	19.56	19.54	19.53		0
16QAM	1	0	18.87	19.16	18.90	0-1	0
	1	50	19.24	19.39	19.04		0
	1	99	19.02	19.20	18.95		0
	50	0	19.02	19.02	19.00	0-2	0
	50	25	19.08	19.03	19.04		0
	50	50	19.07	19.05	19.03		0
	100	0	19.11	19.04	19.10		0
64QAM	1	0	19.19	19.18	19.24	0-2	0
	1	50	19.36	19.42	19.35		0
	1	99	19.25	19.24	19.32		0
	50	0	19.08	19.10	19.05	0-3	0
	50	25	19.09	19.08	19.07		0
	50	50	19.14	19.12	19.06		0
	100	0	19.13	19.14	19.11		0
256QAM	1	0	18.98	19.08	19.13	0-5	0
	1	50	19.30	19.21	19.31		0
	1	99	19.21	19.12	19.20		0
	50	0	19.07	19.10	19.02		0
	50	25	19.10	19.12	19.05		0
	50	50	19.11	19.16	19.06		0
	100	0	19.14	19.13	19.13		0

Table 8-35
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	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	19.28	19.57

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Table 8-36
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	18.09	18.16	18.04	0	0
	1	50	18.29	18.36	18.23		0
	1	99	18.14	18.13	18.06		0
	50	0	18.18	18.30	18.26	0-1	0
	50	25	18.23	18.37	18.21		0
	50	50	18.31	18.44	18.28		0
	100	0	18.15	18.29	18.32		0
16QAM	1	0	17.48	17.55	17.51	0-1	0
	1	50	17.74	17.89	17.75		0
	1	99	17.68	17.71	17.42		0
	50	0	17.43	17.57	17.48	0-2	0
	50	25	17.44	17.59	17.53		0
	50	50	17.50	17.56	17.45		0
	100	0	17.47	17.61	17.58		0
64QAM	1	0	17.49	17.68	17.57	0-2	0
	1	50	17.68	17.86	17.64		0
	1	99	17.66	17.78	17.40		0
	50	0	17.42	17.56	17.49	0-3	0
	50	25	17.43	17.58	17.55		0
	50	50	17.49	17.56	17.45		0
	100	0	17.49	17.62	17.58		0
256QAM	1	0	17.62	17.55	17.77	0-5	0
	1	50	17.75	17.68	17.78		0
	1	99	17.68	17.54	17.59		0
	50	0	17.47	17.54	17.50		0
	50	25	17.44	17.60	17.56		0
	50	50	17.50	17.56	17.47		0
	100	0	17.48	17.61	17.51		0

Table 8-37
LTE Band 7 Measured P_{Limit} Antenna 2 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	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	17.89	18.31

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Table 8-38
LTE Band 7 Measured P_{Limit} Antenna 3a – 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	18.85	18.93	18.92	0	0
	1	50	19.10	19.24	19.03		0
	1	99	18.94	19.03	18.95		0
	50	0	19.06	19.08	19.10	0-1	0
	50	25	19.03	19.15	19.11		0
	50	50	19.08	19.16	19.13		0
	100	0	19.08	19.09	19.10		0
16QAM	1	0	18.31	18.52	18.59	0-1	0
	1	50	18.55	18.73	18.85		0
	1	99	18.40	18.49	18.56		0
	50	0	18.60	18.74	18.54	0-2	0
	50	25	18.63	18.74	18.62		0
	50	50	18.64	18.72	18.59		0
	100	0	18.64	18.75	18.64		0
64QAM	1	0	18.72	18.68	18.59	0-2	0
	1	50	18.92	18.93	18.62		0
	1	99	18.77	18.73	18.52		0
	50	0	18.57	18.71	18.59	0-3	0
	50	25	18.59	18.72	18.62		0
	50	50	18.60	18.70	18.61		0
	100	0	18.59	18.75	18.66		0
256QAM	1	0	18.50	18.55	18.44	0-5	0.1
	1	50	18.78	18.70	18.52		0.1
	1	99	18.64	18.52	18.35		0.1
	50	0	18.38	18.51	18.39		0.1
	50	25	18.39	18.50	18.42		0.1
	50	50	18.40	18.49	18.43		0.1
	100	0	18.41	18.54	18.45		0.1

Table 8-39
LTE Band 7 Measured P_{Limit} Antenna 3a 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	21100	2535.0	3100	2655.0	QPSK	1	99	LTE B7	20	21298	2554.8	3298	2674.8	QPSK	1	0	18.48	19.03

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Table 8-40
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	15.91	15.64	15.92	0	0
	1	50	16.21	15.82	16.16		0
	1	99	15.89	15.64	15.86		0
	50	0	16.15	16.09	16.13	0-1	0
	50	25	16.16	16.06	16.12		0
	50	50	16.19	16.14	16.14		0
	100	0	16.16	16.10	16.15		0
16QAM	1	0	15.29	15.40	15.56	0-1	0
	1	50	15.61	15.71	15.77		0
	1	99	15.31	15.44	15.63		0
	50	0	15.48	15.48	15.40	0-2	0
	50	25	15.50	15.55	15.41		0
	50	50	15.50	15.54	15.46		0
	100	0	15.54	15.58	15.43		0
64QAM	1	0	15.62	15.62	15.56	0-2	0
	1	50	15.90	15.81	15.65		0
	1	99	15.69	15.68	15.52		0
	50	0	15.48	15.46	15.40	0-3	0
	50	25	15.51	15.55	15.41		0
	50	50	15.50	15.53	15.46		0
	100	0	15.54	15.59	15.45		0
256QAM	1	0	15.46	15.54	15.38	0-5	0
	1	50	15.72	15.82	15.46		0
	1	99	15.49	15.62	15.43		0
	50	0	15.49	15.49	15.42		0
	50	25	15.52	15.56	15.43		0
	50	50	15.51	15.55	15.47		0
	100	0	15.57	15.54	15.46		0

Table 8-41
LTE Band 7 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_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	15.96	16.19

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LTE Band 41

Table 8-42

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

LTE Band 41 20 MHz Bandwidth								LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]				
QPSK	1	0	20.91	21.05	21.07	0	0	QPSK	1	0	22.10	22.04	0	0	
	1	50	21.28	21.33	21.44		0		1	50	22.26	22.39		0	
	1	99	20.94	21.10	21.23		0		1	99	22.00	22.10		0	
	50	0	21.18	21.25	21.43	0-1	0		50	0	22.21	22.32	0-1	0	
	50	25	21.27	21.33	21.50		0		50	25	22.30	22.38		0	
	50	50	21.19	21.32	21.48		0		50	50	22.22	22.36		0	
100	0	21.23	21.35	21.43	0-1	0	100	0	22.26	22.37	0-1	0			
1	0	21.02	21.06	21.13		0	1	0	21.85	21.86		0			
1	50	21.19	21.28	21.36		0	1	50	22.07	22.11		0			
1	99	20.96	20.98	21.23		0	1	99	21.89	21.74		0			
50	0	21.05	21.09	21.26		0-2	0	50	0	21.82		21.92	0-2	0	
50	25	21.09	21.13	21.35			0	50	25	21.83		21.97		0	
50	50	21.08	21.12	21.34	0		50	50	21.85	21.94	0				
100	0	21.14	21.17	21.37	0-2	0	100	0	21.93	21.99	0-2	0			
1	0	21.01	20.98	21.04		0	1	0	21.86	21.93		0			
1	50	21.22	21.28	21.43		0	1	50	22.06	22.08		0			
1	99	21.02	21.03	21.33		0	1	99	22.03	21.75		0			
50	0	21.09	21.13	21.28		0-3	0	50	0	21.86		21.92	0-3	0.3	
50	25	21.10	21.17	21.38			0	50	25	21.88		21.97		0.3	
50	50	21.08	21.14	21.37	0		50	50	21.91	21.93	0.3				
100	0	21.15	21.20	21.40	0-5	0	100	0	21.92	22.01	0-5	0.3			
1	0	19.11	19.14	19.11		1.4	1	0	19.57	19.81		2.3			
1	50	19.22	19.38	19.44		1.4	1	50	19.75	19.97		2.3			
1	99	19.02	19.17	19.36		1.4	1	99	19.67	19.74		2.3			
50	0	19.61	19.63	19.78		1.4	50	0	20.14	20.19		2.3			
50	25	19.65	19.70	19.88		1.4	50	25	20.16	20.26		2.3			
50	50	19.62	19.67	19.87	1.4	50	50	20.20	20.21	2.3					
100	0	19.65	19.72	19.91	1.4	100	0	20.19	20.25	2.3					

Table 8-43

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	41055	2636.5	QPSK	1	99	LTE B41	20	41253	2656.3	QPSK	1	0	21.87	22.00

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Table 8-44
LTE Band 41 PC2 Measured P_{Limit} Antenna 1b – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth							LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]			
QPSK	1	0	23.71	23.73	23.74	0	0	QPSK	1	0	23.63	23.58	0	0
	1	50	23.76	23.78	23.80		0		1	50	23.90	23.86		0
	1	99	23.74	23.75	23.77		0		1	99	23.76	23.70		0
	50	0	23.73	23.76	23.76		0		50	0	23.93	23.87		0
	50	25	23.77	23.79	23.81	0-1	0		50	25	24.02	23.94	0-1	0
	50	50	23.74	23.77	23.80		0		50	50	24.06	23.98		0
	100	0	23.75	23.77	23.79		0		100	0	23.86	23.85		0

Table 8-45
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	41055	2636.5	QPSK	1	99	LTE B41 PC2	20	41253	2656.3	QPSK	1	0	23.65	23.76

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Table 8-46
LTE Band 41 PC3 Measured P_{Limit} Antenna 2 – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]				
QPSK	1	0	20.43	20.60	20.64	0	0	QPSK	1	0	20.18	20.40	0	0	
	1	50	20.55	20.68	20.71		0		1	50	20.51	20.71		0	
	1	99	20.49	20.62	20.66		0		1	99	20.33	20.39		0	
	50	0	20.75	20.76	20.83		0		50	0	20.54	20.62		0	
	50	25	20.67	20.71	20.74		0		50	25	20.56	20.66		0	
	50	50	20.57	20.73	20.78		0		50	50	20.61	20.67		0	
	100	0	20.65	20.67	20.70		0		100	0	20.60	20.64		0	
16QAM	1	0	20.36	20.22	20.25	0-1	0	16QAM	1	0	20.37	20.31	0-1	0	
	1	50	20.50	20.49	20.61		0		1	50	20.48	20.51		0	
	1	99	20.33	20.23	20.41		0		1	99	20.39	20.22		0	
	50	0	20.36	20.50	20.53		0		50	0	20.49	20.46		0	
	50	25	20.35	20.49	20.59		0		50	25	20.49	20.50		0	
	50	50	20.37	20.45	20.54		0		50	50	20.51	20.45		0	
	100	0	20.39	20.53	20.61		0		100	0	20.52	20.53		0	
64QAM	1	0	20.35	20.39	20.43	0-2	0	64QAM	1	0	20.33	20.32	0-2	0	
	1	50	20.52	20.52	20.69		0		1	50	20.54	20.51		0	
	1	99	20.37	20.43	20.59		0		1	99	20.49	20.31		0	
	50	0	20.37	20.52	20.55		0		50	0	20.50	20.49		0	
	50	25	20.38	20.51	20.60		0		50	25	20.52	20.53		0	
	50	50	20.37	20.48	20.55		0		50	50	20.52	20.46		0	
	100	0	20.38	20.55	20.60		0		100	0	20.51	20.54		0	
256QAM	1	0	19.24	19.51	19.44	0-5	0.8	256QAM	1	0	19.59	19.65	0-5	0.7	
	1	50	19.45	19.58	19.76		0.8		1	50	19.73	19.78		0.7	
	1	99	19.28	19.38	19.66		0.8		1	99	19.57	19.53		0.7	
	50	0	19.88	20.01	20.05		0.8		50	0	20.23	20.20		0.7	
	50	25	19.89	19.99	20.11		0.8		50	25	20.25	20.26		0.7	
	50	50	19.88	19.96	20.10		0.8		50	50	20.26	20.21		0.7	
	100	0	19.90	20.02	20.13		0.8		100	0	20.27	20.30		0.7	

Table 8-47
LTE Band 41 PC3 Measured P_{Limit} Antenna 2 Uplink Carrier Aggregation

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	20.29	20.49

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Table 8-48
LTE Band 41 PC2 Measured P_{Limit} Antenna 2 – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]				
QPSK	1	0	21.97	21.82	22.05	0	0	QPSK	1	0	24.68	24.71	0	0	
	1	50	22.18	22.05	22.37		0		1	50	24.72	24.76		0	
	1	99	21.90	21.82	22.15		0		1	99	24.69	24.70		0	
	50	0	22.11	22.06	22.11		0		50	0	23.83	23.86		1	
	50	25	22.09	22.08	22.17	0-1	0		50	25	23.85	23.90	0-1	1	
	50	50	22.12	22.05	22.14		0		50	50	23.79	23.87		1	
	100	0	22.09	22.01	22.11		0		100	0	23.84	23.88		1	

Table 8-49
LTE Band 41 PC2 Measured P_{Limit} Antenna 2 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	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	21.82	21.90

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Table 8-50
LTE Band 41 PC3 Measured P_{Limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]				
QPSK	1	0	21.19	21.30	21.14	0	0	QPSK	1	0	21.76	21.70	0	0	
	1	50	21.55	21.60	21.44		0		1	50	21.92	22.06		0	
	1	99	21.36	21.28	21.24		0		1	99	21.77	21.81		0	
	50	0	21.60	21.52	21.37		0		50	0	21.97	21.94		0	
	50	25	21.61	21.63	21.38		0		50	25	22.00	22.03		0	
	50	50	21.57	21.57	21.36		0		50	50	21.99	21.98		0	
	100	0	21.52	21.57	21.42		0		100	0	22.01	22.02		0	
16QAM	1	0	21.08	21.21	21.16	0-1	0	16QAM	1	0	21.45	21.67	0-1	0	
	1	50	21.53	21.07	21.22		0		1	50	21.62	21.96		0	
	1	99	21.42	21.34	21.31		0		1	99	21.43	21.72		0	
	50	0	21.35	21.04	20.97		0		50	0	21.55	21.65		0	
	50	25	21.43	21.51	21.36		0		50	25	21.56	21.70		0	
	50	50	21.39	21.50	21.25		0		50	50	21.61	21.65		0	
	100	0	21.50	21.19	21.16		0		100	0	21.61	21.74		0	
64QAM	1	0	21.51	21.53	20.99	0-2	0	64QAM	1	0	21.46	21.62	0-2	0	
	1	50	21.04	21.25	21.29		0		1	50	21.67	21.79		0	
	1	99	21.19	21.51	21.48		0		1	99	21.51	21.56		0	
	50	0	21.40	21.32	21.27		0		50	0	21.59	21.65		0.2	
	50	25	21.10	21.09	21.43		0		50	25	21.59	21.70		0.2	
	50	50	21.00	21.00	21.37		0		50	50	21.61	21.66		0.2	
	100	0	21.17	21.52	21.54		0		100	0	21.62	21.74		0.2	
256QAM	1	0	19.80	19.77	19.89	0-5	1.6	256QAM	1	0	19.77	19.98	0-5	2.2	
	1	50	19.55	19.56	19.64		1.6		1	50	19.98	20.21		2.2	
	1	99	19.85	19.85	19.29		1.6		1	99	19.79	19.89		2.2	
	50	0	19.21	19.94	19.28		1.6		50	0	20.12	20.20		2.2	
	50	25	19.27	19.51	19.83		1.6		50	25	20.13	20.26		2.2	
	50	50	19.61	19.33	19.63		1.6		50	50	20.17	20.24		2.2	
	100	0	19.43	19.88	19.57		1.6		100	0	20.16	20.30		2.2	

Table 8-51
LTE Band 41 PC3 Measured P_{Limit} Antenna 3a Uplink Carrier Aggregation

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	1	99	LTE B41	20	41253	2656.3	QPSK	1	0	21.70	21.77

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Table 8-52
LTE Band 41 PC2 Measured P_{Limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth							LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]			
QPSK	1	0	22.37	22.41	22.60	0	0	QPSK	1	0	23.40	23.47	0	0
	1	50	22.62	22.61	22.91		0		1	50	23.77	23.81		0
	1	99	22.40	22.33	22.54		0		1	99	23.42	23.59		0
	50	0	22.68	22.60	22.73		0		50	0	23.69	23.62		0
	50	25	22.70	22.61	22.75	0-1	0		50	25	23.69	23.66	0-1	0
	50	50	22.62	22.59	22.73		0		50	50	23.70	23.71		0
	100	0	22.71	22.64	22.74		0		100	0	23.69	23.70		0

Table 8-53
LTE Band 41 PC2 Measured P_{Limit} Antenna 3a 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	41055	2636.5	QPSK	1	99	LTE B41 PC2	20	41253	2656.3	QPSK	1	0	23.47	23.42

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Table 8-54
LTE Band 41 PC3 Measured P_{Limit} Antenna 4 – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]				
QPSK	1	0	18.47	18.45	18.42	0	0	QPSK	1	0	22.43	22.44	0	0	
	1	50	18.59	18.49	18.45		0		1	50	22.44	22.52		0	
	1	99	18.43	18.40	18.39		0		1	99	22.21	22.45		0	
	50	0	18.52	18.47	18.37		0		50	0	22.46	22.42		0	
	50	25	18.60	18.51	18.50		0		50	25	22.51	22.57		0	
	50	50	18.50	18.44	18.48		0		50	50	22.41	22.48		0	
	100	0	18.56	18.49	18.46		0		100	0	22.47	22.50		0	
16QAM	1	0	18.43	17.94	18.15	0-1	0	16QAM	1	0	21.82	22.25	0-1	0	
	1	50	18.09	18.04	17.99		0		1	50	21.86	22.11		0	
	1	99	17.86	18.29	18.31		0		1	99	22.23	21.95		0	
	50	0	18.34	18.27	17.82		0		50	0	22.14	22.43		0	
	50	25	18.21	17.85	18.17		0		50	25	22.04	22.26		0	
	50	50	17.88	17.81	17.99		0		50	50	22.14	22.09		0	
	100	0	18.23	18.30	17.80		0		100	0	21.98	22.34		0	
64QAM	1	0	18.12	18.15	18.23	0-2	0	64QAM	1	0	22.34	21.84	0-2	0	
	1	50	18.41	18.13	17.93		0		1	50	22.22	21.82		0	
	1	99	18.33	18.29	17.85		0		1	99	22.19	21.83		0	
	50	0	18.26	18.30	18.37		0		50	0	22.38	21.90		0.4	
	50	25	17.96	18.11	18.41		0		50	25	22.41	21.78		0.4	
	50	50	17.92	18.40	18.07		0		50	50	21.75	21.96		0.4	
	100	0	18.34	18.12	18.00		0		100	0	22.06	22.04		0.4	
256QAM	1	0	17.86	18.15	17.91	0-5	0	256QAM	1	0	19.94	19.95	0-5	2.4	
	1	50	18.23	18.42	18.08		0		1	50	19.88	19.90		2.4	
	1	99	18.24	18.08	18.31		0		1	99	19.83	19.87		2.4	
	50	0	18.42	18.16	18.48		0		50	0	19.91	19.89		2.4	
	50	25	18.34	18.16	18.43		0		50	25	19.93	19.93		2.4	
	50	50	18.08	17.85	18.37		0		50	50	19.96	19.92		2.4	
	100	0	18.09	17.93	17.81		0		100	0	19.89	19.84		2.4	

Table 8-55
LTE Band 41 PC3 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_41C	LTE B41	20	41055	2636.5	QPSK	1	99	LTE B41	20	41253	2656.3	QPSK	1	0	22.27	22.21

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Table 8-56
LTE Band 41 PC2 Measured P_{Limit} Antenna 4 – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth							LTE Band 41 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	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]								Conducted Power [dBm]			
QPSK	1	0	20.72	20.71	20.74	0	0	QPSK	1	0	23.51	23.15	0	0
	1	50	20.78	20.80	20.81		0		1	50	23.60	23.21		0
	1	99	20.77	20.76	20.79		0		1	99	23.58	23.12		0
	50	0	20.76	20.75	20.80		0		50	0	23.18	23.15		0
	50	25	20.79	20.80	20.83	0-1	0		50	25	23.52	23.26	0-1	0
	50	50	20.75	20.74	20.78		0		50	50	23.45	23.17		0
	100	0	20.77	20.78	20.80		0		100	0	23.30	23.10		0

Table 8-57
LTE Band 41 PC2 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_41C	LTE B41 PC2	20	41055	2636.5	QPSK	1	99	LTE B41 PC2	20	41253	2656.3	QPSK	1	0	23.68	23.58

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8.2.13

LTE Band 48

Table 8-58
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	19.37	19.27	20.10	20.15	0	0
	1	50	19.46	19.30	20.22	20.23		0
	1	99	19.34	19.22	20.20	20.12		0
	50	0	18.31	18.15	19.23	19.20	0-1	1
	50	25	18.24	18.13	19.25	19.26		1
	50	50	18.26	18.14	19.24	19.21		1
	100	0	18.20	18.18	19.19	19.24		1
16QAM	1	0	17.67	17.81	18.72	18.87	0-1	1
	1	50	18.05	18.02	18.94	19.05		1
	1	99	17.84	17.95	18.75	18.85		1
	50	0	16.90	16.93	17.92	17.98	0-2	2
	50	25	17.07	17.01	17.95	17.91		2
	50	50	17.02	16.97	17.93	17.89		2
	100	0	17.03	16.98	17.94	17.97		2
64QAM	1	0	16.91	16.85	17.83	17.90	0-2	2
	1	50	17.19	17.08	18.05	18.09		2
	1	99	17.04	16.91	17.78	17.80		2
	50	0	15.97	15.92	16.93	16.94	0-3	3
	50	25	16.10	15.97	16.97	16.98		3
	50	50	16.06	15.95	16.96	16.90		3
	100	0	16.07	16.01	16.93	16.95		3
256QAM	1	0	13.83	13.89	14.90	14.93	0-5	5
	1	50	14.12	14.01	15.08	15.11		5
	1	99	13.89	13.78	15.02	14.81		5
	50	0	13.97	13.96	14.98	14.96		5
	50	25	14.09	14.05	15.03	15.05		5
	50	50	14.07	14.00	15.01	14.95		5
	100	0	14.08	14.01	15.00	15.02		5

Table 8-59
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	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	19.65	20.10

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Table 8-60
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	19.20	19.13	19.23	18.92	0	0
	1	50	19.28	19.27	19.29	19.24		0
	1	99	19.19	19.24	19.21	19.01		0
	50	0	18.12	18.11	18.20	18.11	0-1	1
	50	25	18.19	18.17	18.23	18.15		1
	50	50	18.14	18.15	18.18	18.10		1
	100	0	18.18	18.16	18.21	18.16		1
16QAM	1	0	17.84	17.81	17.79	17.74	0-1	1
	1	50	18.10	18.07	17.96	17.91		1
	1	99	17.87	17.90	17.75	17.73		1
	50	0	16.97	16.96	16.85	16.79	0-2	2
	50	25	17.07	17.06	16.89	16.81		2
	50	50	17.01	17.02	16.88	16.78		2
	100	0	17.02	17.05	16.91	16.84		2
64QAM	1	0	16.76	16.72	16.95	16.60	0-2	2
	1	50	17.12	17.07	16.88	16.95		2
	1	99	16.89	16.91	16.79	16.70		2
	50	0	16.06	15.96	15.90	15.78	0-3	3
	50	25	16.11	16.07	15.92	15.88		3
	50	50	16.07	16.04	15.89	15.79		3
	100	0	16.08	16.05	15.91	15.86		3
256QAM	1	0	14.06	13.89	13.74	13.67	0-5	5
	1	50	14.22	14.15	13.91	13.71		5
	1	99	14.10	14.09	13.78	13.56		5
	50	0	14.04	14.00	13.94	13.86		5
	50	25	14.12	14.08	14.00	13.88		5
	50	50	14.06	14.06	13.96	13.84		5
	100	0	14.08	14.10	13.97	13.87		5

Table 8-61
LTE Band 48 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_48C	LTE B48	20	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	19.19	19.23

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Table 8-62
LTE Band 48 Measured P_{Limit} Antenna 3b – 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	20.12	20.20	20.00	20.00	0	0
	1	50	20.34	20.30	20.05	20.36		0
	1	99	20.23	20.17	19.96	20.02		0
	50	0	19.26	19.19	19.19	19.29	0-1	1
	50	25	19.29	19.20	19.15	19.34		1
	50	50	19.28	19.18	19.14	19.36		1
	100	0	19.15	19.13	19.18	19.19		1
16QAM	1	0	19.15	18.92	19.10	19.03	0-1	1
	1	50	19.32	19.12	19.12	19.22		1
	1	99	19.20	18.96	19.05	18.96		1
	50	0	18.14	18.01	18.02	18.05	0-2	2
	50	25	18.18	18.08	18.07	18.12		2
	50	50	18.13	18.02	18.03	18.08		2
	100	0	18.16	18.03	18.06	18.11		2
64QAM	1	0	18.09	17.96	17.79	18.02	0-2	2
	1	50	18.11	18.07	17.95	18.24		2
	1	99	17.98	17.97	17.74	18.05		2
	50	0	17.16	17.02	17.06	17.05	0-3	3
	50	25	17.19	17.06	17.09	17.14		3
	50	50	17.15	17.03	17.05	17.08		3
	100	0	17.18	17.04	17.07	17.12		3
256QAM	1	0	15.12	14.98	14.95	15.03	0-5	5
	1	50	15.22	15.03	15.12	15.24		5
	1	99	15.02	14.95	15.04	15.06		5
	50	0	15.19	15.02	15.05	15.07		5
	50	25	15.23	15.08	15.12	15.18		5
	50	50	15.20	15.04	15.09	15.12		5
	100	0	15.21	15.05	15.11	15.15		5

Table 8-63
LTE Band 48 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_48C	LTE B48	20	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	20.01	20.00

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Table 8-64
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	18.97	18.88	18.99	19.09	0	0
	1	50	19.16	18.96	19.25	19.32		0
	1	99	19.03	18.81	19.05	19.12		0
	50	0	18.24	18.04	18.28	18.35	0-1	1
	50	25	18.21	18.09	18.33	18.47		1
	50	50	18.21	18.07	18.26	18.41		1
	100	0	18.23	18.08	18.29	18.45		1
16QAM	1	0	18.13	18.18	17.97	18.22	0-1	1
	1	50	18.27	18.32	18.16	18.45		1
	1	99	18.22	18.31	18.01	18.27		1
	50	0	17.69	17.63	17.24	17.40	0-2	2
	50	25	17.69	17.72	17.28	17.47		2
	50	50	17.68	17.62	17.23	17.43		2
	100	0	17.61	17.65	17.26	17.46		2
64QAM	1	0	17.42	17.46	17.20	17.24	0-2	2
	1	50	17.75	17.69	17.35	17.52		2
	1	99	17.65	17.53	17.19	17.28		2
	50	0	16.64	16.68	16.24	16.37	0-3	3
	50	25	16.72	16.76	16.30	16.48		3
	50	50	16.70	16.60	16.25	16.45		3
	100	0	16.71	16.59	16.26	16.46		3
256QAM	1	0	14.63	14.62	14.14	14.16	0-5	5
	1	50	14.85	14.74	14.41	14.43		5
	1	99	14.62	14.71	14.26	14.32		5
	50	0	14.72	14.74	14.30	14.41		5
	50	25	14.79	14.75	14.32	14.51		5
	50	50	14.73	14.76	14.27	14.47		5
	100	0	14.74	14.67	14.31	14.49		5

Table 8-65
LTE Band 48 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_48C	LTE B48	20	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	18.69	18.99

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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 8-66
NR Band n71 Measured P_{Limit} Antenna 3b – 35 MHz Bandwidth

NR Band n71 35 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	21.05	0	0.0
	1	94	21.09		0.0
	1	186	21.17		0.0
	90	0	21.23	0-1	0.0
	90	49	21.11	0	0.0
	90	98	21.16	0-1	0.0
	180	0	21.14		0.0
DFT-s-OFDM 16QAM	1	1	21.11	0-1	0.0
CP-OFDM QPSK	1	1	21.15	0-1.5	0.0

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Table 8-67
NR Band n71 Measured P_{Limit} Antenna 4 – 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.44	0	0.0
	1	94	23.30		0.0
	1	186	23.45		0.0
	90	0	23.41	0-1	0.0
	90	49	23.37	0	0.0
	90	98	23.54	0-1	0.0
	180	0	23.42		0.0
DFT-s-OFDM 16QAM	1	1	23.39	0-1	0.0
CP-OFDM QPSK	1	1	23.44	0-1.5	0.0

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8.3.2

NR Band n12

Table 8-68
NR Band n12 Measured P_{Limit} Antenna 3b – 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	20.83	0	0.0
	1	40	20.85		0.0
	1	77	20.80		0.0
	36	0	20.70	0-1	0.0
	36	22	20.90	0	0.0
	36	43	20.74	0-1	0.0
	75	0	20.84		0.0
DFT-s-OFDM 16QAM	1	1	20.75	0-1	0.0
CP-OFDM QPSK	1	1	20.83	0-1.5	0.0

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Table 8-69
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	22.23	0	0.0
	1	40	22.35		0.0
	1	77	22.20		0.0
	36	0	22.34	0-1	0.0
	36	22	22.33	0	0.0
	36	43	22.41	0-1	0.0
	75	0	22.34		0.0
DFT-s-OFDM 16QAM	1	1	22.25	0-1	0.0
CP-OFDM QPSK	1	1	22.33	0-1.5	0.0

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8.3.3

NR Band n14

Table 8-70
NR Band n14 Measured P_{Limit} Antenna 3b – 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	21.08	0	0.0
	1	26	21.29		0.0
	1	50	21.11		0.0
	25	0	21.15	0-1	0.0
	25	14	21.20	0	0.0
	25	27	21.10	0-1	0.0
	50	0	21.12		0.0
DFT-s-OFDM 16QAM	1	1	20.84	0-1	0.0
CP-OFDM QPSK	1	1	21.10	0-1.5	0.0

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Table 8-71
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	22.81	0	0.0
	1	26	22.76		0.0
	1	50	22.88		0.0
	25	0	22.82	0-1	0.0
	25	14	22.89	0	0.0
	25	27	22.90	0-1	0.0
	50	0	22.87		0.0
DFT-s-OFDM 16QAM	1	1	22.79	0-1	0.0
CP-OFDM QPSK	1	1	22.86	0-1.5	0.0

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8.3.4

NR Band n26

Table 8-72
NR Band n26 Measured P_{Limit} Antenna 3b – 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	20.70	0	0.0
	1	53	20.84		0.0
	1	104	20.76		0.0
	50	0	20.79	0-1	0.0
	50	28	20.83	0	0.0
	50	56	20.71	0-1	0.0
	100	0	20.82		0.0
DFT-s-OFDM 16QAM	1	1	20.68	0-1	0.0
CP-OFDM QPSK	1	1	20.73	0-1.5	0.0

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Table 8-73
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	23.02	0	0.0
	1	53	23.10		0.0
	1	104	23.03		0.0
	50	0	23.07	0-1	0.0
	50	28	23.14	0	0.0
	50	56	23.12	0-1	0.0
	100	0	23.05		0.0
DFT-s-OFDM 16QAM	1	1	22.92	0-1	0.0
CP-OFDM QPSK	1	1	23.13	0-1.5	0.2

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8.3.5

NR Band n5

Table 8-74
NR Band n5 Measured P_{Limit} Antenna 3b – 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	20.76	0	0.0
	1	53	20.62		0.0
	1	104	20.56		0.0
	50	0	20.67	0-1	0.0
	50	28	20.64	0	0.0
	50	56	20.76	0-1	0.0
	100	0	20.73		0.0
DFT-s-OFDM 16QAM	1	1	20.54	0-1	0.0
CP-OFDM QPSK	1	1	20.79	0-1.5	0.0

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Table 8-75
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	23.35	0	0.0
	1	53	23.24		0.0
	1	104	23.23		0.0
	50	0	23.22	0-1	0.0
	50	28	23.42	0	0.0
	50	56	23.21	0-1	0.0
	100	0	23.32		0.0
DFT-s-OFDM 16QAM	1	1	23.46	0-1	0.0
CP-OFDM QPSK	1	1	23.56	0-1.5	0.0

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8.3.6

NR Band n70

Table 8-76
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	20.02	0	0.0
	1	40	19.85		0.0
	1	77	19.89		0.0
	36	0	20.06	0-1	0.0
	36	22	19.99	0	0.0
	36	43	19.94	0-1	0.0
	75	0	19.98		0.0
DFT-s-OFDM 16QAM	1	1	20.02	0-1	0.0
CP-OFDM QPSK	1	1	20.05	0-1.5	0.0

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Table 8-77
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	19.08	0	0.0
	1	40	19.04		0.0
	1	77	18.94		0.0
	36	0	19.10	0-1	0.0
	36	22	19.06	0	0.0
	36	43	19.00	0-1	0.0
	75	0	19.06		0.0
DFT-s-OFDM 16QAM	1	1	18.90	0-1	0.0
CP-OFDM QPSK	1	1	19.17	0-1.5	0.0

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Table 8-78
NR Band n70 Measured P_{Limit} Antenna 3a – 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	21.22	0	0.0
	1	40	21.11		0.0
	1	77	21.09		0.0
	36	0	21.17	0-1	0.0
	36	22	21.14	0	0.0
	36	43	21.32	0-1	0.0
	75	0	21.21		0.0
DFT-s-OFDM 16QAM	1	1	21.02	0-1	0.0
CP-OFDM QPSK	1	1	21.16	0-1.5	0.0

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Table 8-79
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	20.75	0	0.0
	1	40	20.74		0.0
	1	77	20.73		0.0
	36	0	20.77	0-1	0.0
	36	22	20.79	0	0.0
	36	43	20.89	0-1	0.0
	75	0	20.74		0.0
DFT-s-OFDM 16QAM	1	1	20.63	0-1	0.0
CP-OFDM QPSK	1	1	20.91	0-1.5	0.0

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8.3.7

NR Band n66

Table 8-80
NR Band n66 Measured P_{Limit} Antenna 1b – 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	346500 (1732.5 MHz)	349000 (1745 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	18.92	18.88	0	0.0
	1	121	18.81	19.00		0.0
	1	240	18.77	18.89		0.0
	120	0	18.91	18.92	0-1	0.0
	120	61	18.90	18.90	0	0.0
	120	122	18.90	18.97	0-1	0.0
	240	0	18.95	18.96		0.0
DFT-s-OFDM 16QAM	1	1	18.68	18.55	0-1	0.0
CP-OFDM QPSK	1	1	18.80	18.94	0-1.5	0.0

NR Band n66 45 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	351500 (1757.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.30	0	0.0
	1	121	18.38		0.0
	1	240	18.14		0.0
	120	0	18.42	0-1	0.0
	120	61	18.32	0	0.0
	120	122	18.38	0-1	0.0
	240	0	18.35		0.0
DFT-s-OFDM 16QAM	1	1	18.01	0-1	0.0
CP-OFDM QPSK	1	1	18.38	0-1.5	0.0

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Table 8-81
NR Band n66 Measured P_{Limit} Antenna 2 – 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	346500 (1732.5 MHz)	349000 (1745 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	24.56	24.61	0	0.0
	1	121	24.62	24.58		0.0
	1	240	24.54	24.52		0.0
	120	0	24.03	24.10	0-1	0.6
	120	61	24.66	24.59	0	0.0
	120	122	24.00	24.07	0-1	0.6
	240	0	23.77	23.76		0.6
DFT-s-OFDM 16QAM	1	1	23.72	23.77	0-1	0.6
CP-OFDM QPSK	1	1	23.59	23.53	0-1.5	1.1

NR Band n66 45 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	351500 (1757.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.61	0	0.0
	1	121	24.55		0.0
	1	240	24.65		0.0
	120	0	24.01	0-1	0.6
	120	61	24.67	0	0.0
	120	122	24.01	0-1	0.6
	240	0	23.89		0.6
DFT-s-OFDM 16QAM	1	1	23.77	0-1	0.6
CP-OFDM QPSK	1	1	23.60	0-1.5	1.1

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Table 8-82
NR Band n66 Measured P_{Limit} Antenna 3a – 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	346500 (1732.5 MHz)	349000 (1745 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	20.59	20.67	0	0.0
	1	121	20.56	20.61		0.0
	1	240	20.65	20.73		0.0
	120	0	20.62	20.61	0-1	0.0
	120	61	20.52	20.63	0	0.0
	120	122	20.55	20.71	0-1	0.0
	240	0	20.66	20.65		0.0
DFT-s-OFDM 16QAM	1	1	20.69	20.66	0-1	0.0
CP-OFDM QPSK	1	1	20.70	20.79	0-1.5	0.0

NR Band n66 45 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	351500 (1757.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.86	0	0.0
	1	121	19.94		0.0
	1	240	19.70		0.0
	120	0	19.88	0-1	0.0
	120	61	19.93	0	0.0
	120	122	19.82	0-1	0.0
	240	0	19.80		0.0
DFT-s-OFDM 16QAM	1	1	19.41	0-1	0.0
CP-OFDM QPSK	1	1	19.88	0-1.5	0.0

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Table 8-83
NR Band n66 Measured P_{Limit} Antenna 4 – 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	346500 (1732.5 MHz)	349000 (1745 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	21.88	22.10	0	0.0
	1	121	22.10	22.20		0.0
	1	240	22.08	22.06		0.0
	120	0	22.14	22.13	0-1	0.0
	120	61	22.05	22.25	0	0.0
	120	122	22.24	22.18	0-1	0.0
	240	0	22.07	22.08		0.0
DFT-s-OFDM 16QAM	1	1	21.71	21.84	0-1	0.0
CP-OFDM QPSK	1	1	22.00	22.10	0-1.5	0.0

NR Band n66 45 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	351500 (1757.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.00	0	0.0
	1	121	22.10		0.0
	1	240	21.91		0.0
	120	0	22.14	0-1	0.0
	120	61	22.05	0	0.0
	120	122	22.07	0-1	0.0
	240	0	22.00		0.0
DFT-s-OFDM 16QAM	1	1	21.91	0-1	0.0
CP-OFDM QPSK	1	1	22.09	0-1.5	0.0

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8.3.8

NR Band n25

Table 8-84
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	17.50	0	0.0
	1	108	17.28		0.0
	1	214	17.61		0.0
	108	0	17.69	0-1	0.0
	108	54	17.45	0	0.0
	108	108	17.58	0-1	0.0
	216	0	17.59		0.0
DFT-s-OFDM 16QAM	1	1	17.30	0-1	0.0
CP-OFDM QPSK	1	1	17.56	0-1.5	0.0

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Table 8-85
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	17.81	0	0.0
	1	108	17.65		0.0
	1	214	17.61		0.0
	108	0	17.87	0-1	0.0
	108	54	17.74	0	0.0
	108	108	17.69	0-1	0.0
	216	0	17.79		0.0
DFT-s-OFDM 16QAM	1	1	17.77	0-1	0.0
CP-OFDM QPSK	1	1	17.98	0-1.5	0.0

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Table 8-86
NR Band n25 Measured P_{Limit} Antenna 3a – 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	20.68	0	0.0
	1	108	20.79		0.0
	1	214	20.66		0.0
	108	0	20.83	0-1	0.0
	108	54	20.76	0	0.0
	108	108	20.66	0-1	0.0
	216	0	20.77		0.0
DFT-s-OFDM 16QAM	1	1	20.70	0-1	0.0
CP-OFDM QPSK	1	1	20.83	0-1.5	0.0

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Table 8-87
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	16.29	0	0.0
	1	108	16.39		0.0
	1	214	16.18		0.0
	108	0	16.35	0-1	0.0
	108	54	16.43	0	0.0
	108	108	16.30	0-1	0.0
	216	0	16.32		0.0
DFT-s-OFDM 16QAM	1	1	16.21	0-1	0.0
CP-OFDM QPSK	1	1	16.52	0-1.5	0.0

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8.3.9

NR Band n30

Table 8-88
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	17.87	0	0.0
	1	26	17.88		0.0
	1	50	17.91		0.0
	25	0	17.93	0-1	0.0
	25	14	17.97	0	0.0
	25	27	17.91	0-1	0.0
	50	0	17.89		0.0
DFT-s-OFDM 16QAM	1	1	17.85	0-1	0.0
CP-OFDM QPSK	1	1	17.90	0-1.5	0.0

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Table 8-89
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	15.69	0	0.0
	1	26	15.55		0.0
	1	50	15.58		0.0
	25	0	15.70	0-1	0.0
	25	14	15.60	0	0.0
	25	27	15.62	0-1	0.0
	50	0	15.60		0.0
DFT-s-OFDM 16QAM	1	1	15.50	0-1	0.0
CP-OFDM QPSK	1	1	15.74	0-1.5	0.0

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Table 8-90
NR Band n30 Measured P_{Limit} Antenna 3a – 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.15	0	0.0
	1	26	19.25		0.0
	1	50	19.17		0.0
	25	0	19.34	0-1	0.0
	25	14	19.29	0	0.0
	25	27	19.23	0-1	0.0
	50	0	19.20		0.0
DFT-s-OFDM 16QAM	1	1	19.18	0-1	0.0
CP-OFDM QPSK	1	1	19.23	0-1.5	0.0

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Table 8-91
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	16.85	0	0.0
	1	26	16.98		0.0
	1	50	16.83		0.0
	25	0	16.92	0-1	0.0
	25	14	17.01	0	0.0
	25	27	16.93	0-1	0.0
	50	0	16.92		0.0
DFT-s-OFDM 16QAM	1	1	16.88	0-1	0.0
CP-OFDM QPSK	1	1	17.02	0-1.5	0.0

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8.3.10

NR Band n7

Table 8-92
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	19.22	0	0.0
	1	135	19.45		0.0
	1	268	19.14		0.0
	135	0	19.31	0-1	0.0
	135	68	19.48	0	0.0
	135	135	19.29	0-1	0.0
	270	0	19.42		0.0
DFT-s-OFDM 16QAM	1	1	19.05	0-1	0.0
CP-OFDM QPSK	1	1	19.32	0-1.5	0.0

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Table 8-93
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	17.45	0	0.0
	1	135	17.65		0.0
	1	268	17.43		0.0
	135	0	17.58	0-1	0.0
	135	68	17.62	0	0.0
	135	135	17.59	0-1	0.0
	270	0	17.56		0.0
DFT-s-OFDM 16QAM	1	1	17.24	0-1	0.0
CP-OFDM QPSK	1	1	17.55	0-1.5	0.0

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Table 8-94
NR Band n7 Measured P_{Limit} Antenna 3a – 50 MHz Bandwidth
NR Band n7
50 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.31	0	0.0
	1	135	19.65		0.0
	1	268	19.25		0.0
	135	0	19.56	0-1	0.0
	135	68	19.63	0	0.0
	135	135	19.38	0-1	0.0
	270	0	19.51		0.0
DFT-s-OFDM 16QAM	1	1	19.05	0-1	0.0
CP-OFDM QPSK	1	1	19.51	0-1.5	0.0

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Table 8-95
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	15.93	0	0.0
	1	135	16.04		0.0
	1	268	15.82		0.0
	135	0	16.08	0-1	0.0
	135	68	16.02	0	0.0
	135	135	16.02	0-1	0.0
	270	0	16.00		0.0
DFT-s-OFDM 16QAM	1	1	15.75	0-1	0.0
CP-OFDM QPSK	1	1	15.98	0-1.5	0.0

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8.3.11

NR Band n41

Table 8-96

NR Band n41 Measured P_{Limit} Antenna 1b – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth							NR Band n41 100 MHz Bandwidth					
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]				MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	509202 (2546.01 MHz)	518598 (2592.99 MHz)			Modulation	RB Size	RB Offset			528000 (2640 MHz)
			Conducted Power [dBm]									Conducted Power [dBm]
DFT-s-OFDM QPSK	1	1	19.10	18.95	0	0.0	DFT-s-OFDM QPSK	1	1	20.00	0	0.0
	1	137	19.25	19.45		0.0		1	137	20.20		0.0
	1	271	19.23	19.32		0.0		1	271	20.13		0.0
	135	0	19.27	19.30	0-1	0.0		135	0	20.17	0-1	0.0
	135	69	19.32	19.47	0	0.0		135	69	20.18	0	0.0
	135	138	19.30	19.43	0-1	0.0		135	138	20.10	0-1	0.0
	270	0	19.23	19.41		0.0		270	0	20.11		0.0
DFT-s-OFDM 16QAM	1	1	18.94	18.81	0-1	0.0	DFT-s-OFDM 16QAM	1	1	19.74	0-1	0.0
CP-OFDM QPSK	1	1	19.24	19.30	0-1.5	0.0	CP-OFDM QPSK	1	1	20.02	0-1.5	0.0

Table 8-97

NR Band n41 Measured P_{Limit} Antenna 2 – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth							NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			509202 (2546.01 MHz)	518598 (2592.99 MHz)						528000 (2640 MHz)		
			Conducted Power [dBm]	Conducted Power [dBm]						Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.12	18.36	0	0.0	DFT-s-OFDM QPSK	1	1	18.55	0	0.0
	1	137	18.46	18.85		0.0		1	137	18.66		0.0
	1	271	18.32	18.54		0.0		1	271	18.63		0.0
	135	0	18.54	18.67	0-1	0.0		135	0	18.76	0-1	0.0
	135	69	18.64	18.87	0	0.0		135	69	18.78	0	0.0
	135	138	18.51	18.49	0-1	0.0		135	138	18.70	0-1	0.0
	270	0	18.64	18.76		0.0		270	0	18.63		0.0
DFT-s-OFDM 16QAM	1	1	18.02	18.72	0-1	0.0	DFT-s-OFDM 16QAM	1	1	18.40	0-1	0.0
CP-OFDM QPSK	1	1	18.28	18.82	0-1.5	0.0	CP-OFDM QPSK	1	1	18.63	0-1.5	0.0

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Table 8-98
NR Band n41 Measured P_{Limit} Antenna 3a – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth							NR Band n41 100 MHz Bandwidth					
Channel					MPR Allowed per 3GPP [dB]	MPR [dB]				MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	509202 (2546.01 MHz)	518598 (2592.99 MHz)			528000 (2640 MHz)					
			Conducted Power [dBm]					Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.25	18.77	0	0.0	DFT-s-OFDM QPSK	1	1	19.73	0	0.0
	1	137	19.29	19.30		0.0		1	137	20.04		0.0
	1	271	19.20	19.00		0.0		1	271	19.80		0.0
	135	0	19.27	19.28	0-1	0.0		135	0	20.02	0-1	0.0
	135	69	19.28	19.37	0	0.0		135	69	20.05	0	0.0
	135	138	19.25	19.36	0-1	0.0		135	138	20.04	0-1	0.0
	270	0	19.28	19.29		0.0		270	0	20.01	0-1	0.0
DFT-s-OFDM 16QAM	1	1	19.08	18.60	0-1	0.0	DFT-s-OFDM 16QAM	1	1	19.67	0-1	0.0
CP-OFDM QPSK	1	1	19.21	19.26	0-1.5	0.0	CP-OFDM QPSK	1	1	19.95	0-1.5	0.0

Table 8-99
NR Band n41 Measured P_{Limit} Antenna 4 – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth							NR Band n41 100 MHz Bandwidth					
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	509202 (2546.01 MHz)	518598 (2592.99 MHz)			Modulation	RB Size	RB Offset			528000 (2640 MHz)
			Conducted Power [dBm]									Conducted Power [dBm]
DFT-s-OFDM QPSK	1	1	16.51	16.52	0	0.0	DFT-s-OFDM QPSK	1	1	19.83	0	0.0
	1	137	16.65	16.70		0.0		1	137	19.91		0.0
	1	271	16.62	16.55		0.0		1	271	19.88		0.0
	135	0	16.54	16.56	0-1	0.0		135	0	19.81	0-1	0.0
	135	69	16.69	16.73	0	0.0		135	69	19.95	0	0.0
	135	138	16.56	16.63	0-1	0.0		135	138	19.80	0-1	0.0
	270	0	16.65	16.68		0.0		270	0	19.89	0.0	
DFT-s-OFDM 16QAM	1	1	16.46	16.53	0-1	0.0	DFT-s-OFDM 16QAM	1	1	19.75	0-1	0.0
CP-OFDM QPSK	1	1	16.61	16.69	0-1.5	0.0	CP-OFDM QPSK	1	1	19.90	0-1.5	0.0

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8.3.12

NR Band n48

Table 8-100
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)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	19.38	19.03	0	0.0
	1	53	18.94	18.94		0.0
	1	104	19.10	18.93		0.0
	50	0	18.88	18.69	0-1	0.4
	50	28	19.20	19.05	0	0.0
	50	56	18.90	18.74	0-1	0.4
	100	0	18.89	18.80		0.4
DFT-s-OFDM 16QAM	1	1	19.02	18.55	0-1	0.4
CP-OFDM QPSK	1	1	18.77	18.56	0-1.5	0.9
NR Band n48 40 MHz Bandwidth						
					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	645332 (3679.98 MHz)			
DFT-s-OFDM QPSK	1	1	18.80	0	0.0	
	1	53	18.84		0.0	
	1	104	19.02		0.0	
	50	0	18.54	0-1	0.5	
	50	28	19.02	0	0.0	
	50	56	18.57	0-1	0.5	
	100	0	18.64		0.5	
DFT-s-OFDM 16QAM	1	1	18.34	0-1	0.5	
CP-OFDM QPSK	1	1	18.12	0-1.5	1.0	

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Table 8-101
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)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	17.11	17.04	0	0.0
	1	53	17.05	16.78		0.0
	1	104	17.06	16.80		0.0
	50	0	17.12	16.90	0-1	0.0
	50	28	17.03	16.83	0	0.0
	50	56	17.05	16.82	0-1	0.0
	100	0	17.10	16.95		0.0
DFT-s-OFDM 16QAM	1	1	17.22	16.60	0-1	0.0
CP-OFDM QPSK	1	1	17.28	17.15	0-1.5	0.2
NR Band n48 40 MHz Bandwidth						
				MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	645332 (3679.98 MHz)			
DFT-s-OFDM QPSK	1	1	18.27	0	0.0	
	1	53	18.19		0.0	
	1	104	18.10		0.0	
	50	0	17.38	0-1	1.0	
	50	28	18.22	0	0.0	
	50	56	17.40	0-1	1.0	
	100	0	17.50		1.0	
DFT-s-OFDM 16QAM	1	1	17.40	0-1	1.0	
CP-OFDM QPSK	1	1	16.89	0-1.5	1.5	

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Table 8-102
NR Band n48 Measured P_{Limit} Antenna 3b – 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)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	20.39	20.35	0	0.0
	1	53	20.25	20.30		0.0
	1	104	20.38	20.33		0.0
	50	0	19.55	18.98	0-1	1.0
	50	28	20.30	20.26	0	0.0
	50	56	19.27	19.14	0-1	1.0
	100	0	19.29	19.23		1.0
DFT-s-OFDM 16QAM	1	1	19.20	18.92	0-1	1.0
CP-OFDM QPSK	1	1	18.88	18.89	0-1.5	1.5
NR Band n48 40 MHz Bandwidth						
				MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	645332 (3679.98 MHz)			
DFT-s-OFDM QPSK	1	1	20.40	0	0.0	
	1	53	20.06		0.0	
	1	104	20.10		0.0	
	50	0	19.06	0-1	1.0	
	50	28	20.31	0	0.0	
	50	56	19.21	0-1	1.0	
	100	0	19.30		1.0	
DFT-s-OFDM 16QAM	1	1	18.85	0-1	1.0	
CP-OFDM QPSK	1	1	18.90	0-1.5	1.5	

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Table 8-103
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)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	18.22	17.75	0	0.0
	1	53	17.73	17.65		0.0
	1	104	17.77	17.70		0.0
	50	0	18.03	17.78	0-1	0.0
	50	28	17.82	17.69	0	0.0
	50	56	17.80	17.64	0-1	0.0
	100	0	18.02	17.73		0.0
DFT-s-OFDM 16QAM	1	1	17.72	17.80	0-1	0.0
CP-OFDM QPSK	1	1	18.19	17.75	0-1.5	0.0

NR Band n48 40 MHz Bandwidth						
				MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	645332 (3679.98 MHz)			
DFT-s-OFDM QPSK	1	1	18.35	0	0.0	
	1	53	18.25		0.0	
	1	104	18.48		0.0	
	50	0	18.26	0-1	0.2	
	50	28	18.39	0	0.0	
	50	56	18.30	0-1	0.2	
	100	0	18.36		0.2	
DFT-s-OFDM 16QAM	1	1	18.07	0-1	0.2	
CP-OFDM QPSK	1	1	17.60	0-1.5	0.7	

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8.3.13

NR Band n77 DoD

Table 8-104

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

NR Band n77 DoD 100 MHz Bandwidth						NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]						639334 (3590.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.43	0	0.0	DFT-s-OFDM QPSK	1	1	17.54	0	0.0
	1	137	19.58		0.0		1	137	18.18		0.0
	1	271	19.32		0.0		1	271	17.42		0.0
	135	0	19.71	0-1	0.0		135	0	18.27	0-1	0.0
	135	69	19.58	0	0.0		135	69	18.07	0	0.0
	135	138	19.51	0-1	0.0		135	138	18.00	0-1	0.0
	270	0	19.52		0.0		270	0	18.17		0.0
DFT-s-OFDM 16QAM	1	1	19.46	0-1	0.0	DFT-s-OFDM 16QAM	1	1	17.54	0-1	0.0
CP-OFDM QPSK	1	1	19.60	0-1.5	0.0	CP-OFDM QPSK	1	1	17.73	0-1.5	0.0

Table 8-105

NR Band n77 DoD Measured P_{Limit} Antenna 2 – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth						NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]						639334 (3590.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.83	0	0.0	DFT-s-OFDM QPSK	1	1	17.35	0	0.0
	1	137	17.21		0.0		1	137	18.04		0.0
	1	271	17.01		0.0		1	271	17.47		0.0
	135	0	17.28	0-1	0.0		135	0	18.05	0-1	0.0
	135	69	17.18	0	0.0		135	69	18.03	0	0.0
	135	138	17.16	0-1	0.0		135	138	17.97	0-1	0.0
	270	0	17.19		0.0		270	0	18.02		0.0
DFT-s-OFDM 16QAM	1	1	16.97	0-1	0.0	DFT-s-OFDM 16QAM	1	1	17.25	0-1	0.0
CP-OFDM QPSK	1	1	16.95	0-1.5	0.0	CP-OFDM QPSK	1	1	17.67	0-1.5	0.0

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Table 8-106
NR Band n77 DoD Measured P_{Limit} Antenna 3b – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth						NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]						639334 (3590.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.11	0	0.0	DFT-s-OFDM QPSK	1	1	19.91	0	0.0
	1	137	20.30		0.0		1	137	20.40		0.0
	1	271	19.77		0.0		1	271	20.01		0.0
	135	0	20.40	0-1	0.0		135	0	20.51	0-1	0.0
	135	69	20.34	0	0.0		135	69	20.38	0	0.0
	135	138	20.13	0-1	0.0		135	138	20.47	0-1	0.0
	270	0	20.28		0.0		270	0	20.35		0.0
DFT-s-OFDM 16QAM	1	1	20.03	0-1	0.0	DFT-s-OFDM 16QAM	1	1	19.88	0-1	0.0
CP-OFDM QPSK	1	1	20.17	0-1.5	0.0	CP-OFDM QPSK	1	1	20.15	0-1.5	0.0

Table 8-107
NR Band n77 DoD Measured P_{Limit} Antenna 4 – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth						NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]						639334 (3590.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.66	0	0.0	DFT-s-OFDM QPSK	1	1	18.90	0	0.0
	1	137	18.47		0.0		1	137	18.95		0.0
	1	271	18.21		0.0		1	271	18.21		0.0
	135	0	18.71	0-1	0.0		135	0	19.12	0-1	0.0
	135	69	18.59	0	0.0		135	69	18.92	0	0.0
	135	138	18.51	0-1	0.0		135	138	18.54	0-1	0.0
	270	0	18.65		0.0		270	0	18.94		0.0
DFT-s-OFDM 16QAM	1	1	17.85	0-1	0.0	DFT-s-OFDM 16QAM	1	1	18.70	0-1	0.0
CP-OFDM QPSK	1	1	18.55	0-1.5	0.0	CP-OFDM QPSK	1	1	19.00	0-1.5	0.0

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8.3.14

NR Band n77

Table 8-108

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

NR Band n77 100 MHz Bandwidth						NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz) Conducted Power [dBm]						662000 (3930 MHz)		
DFT-s-OFDM QPSK	1	1	18.31	0	0.0	DFT-s-OFDM QPSK	1	1	18.90	0	0.0
	1	137	18.69		0.0		1	137	19.33		0.0
	1	271	18.43		0.0		1	271	19.04		0.0
	135	0	18.77	0-1	0.0		135	0	19.36	0-1	0.0
	135	69	18.74	0	0.0		135	69	19.25	0	0.0
	135	138	18.26	0-1	0.0		135	138	19.35	0-1	0.0
	270	0	18.60		0.0		270	0	19.32		0.0
DFT-s-OFDM 16QAM	1	1	18.01	0-1	0.0	DFT-s-OFDM 16QAM	1	1	18.80	0-1	0.0
CP-OFDM QPSK	1	1	18.35	0-1.5	0.0	CP-OFDM QPSK	1	1	19.04	0-1.5	0.0

Table 8-109

NR Band n77 Measured P_{Limit} Antenna 2 – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz) Conducted Power [dBm]						662000 (3930 MHz)		
DFT-s-OFDM QPSK	1	1	20.39	0	0.0	DFT-s-OFDM QPSK	1	1	19.27	0	0.0
	1	137	20.47		0.0		1	137	19.44		0.0
	1	271	20.23		0.0		1	271	19.28		0.0
	135	0	20.69	0-1	0.0		135	0	19.57	0-1	0.0
	135	69	20.45	0	0.0		135	69	19.55	0	0.0
	135	138	20.51	0-1	0.0		135	138	19.58	0-1	0.0
	270	0	20.46		0.0		270	0	19.43		0.0
DFT-s-OFDM 16QAM	1	1	20.20	0-1	0.0	DFT-s-OFDM 16QAM	1	1	18.91	0-1	0.0
CP-OFDM QPSK	1	1	20.67	0-1.5	0.0	CP-OFDM QPSK	1	1	19.52	0-1.5	0.0

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Table 8-110
NR Band n77 Measured P_{Limit} Antenna 3b – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						NR Band n77 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)			662000 (3930 MHz)					
			Conducted Power [dBm]								
DFT-s-OFDM QPSK	1	1	20.35	0	0.0	DFT-s-OFDM QPSK	1	1	19.80	0	0.0
	1	137	20.66		0.0		1	137	19.75		0.0
	1	271	20.47		0.0		1	271	19.60		0.0
	135	0	20.75	0-1	0.0		135	0	19.95	0-1	0.0
	135	69	20.69	0	0.0		135	69	19.81	0	0.0
	135	138	20.67	0-1	0.0		135	138	19.90	0-1	0.0
	270	0	20.65		0.0		270	0	19.79		0.0
DFT-s-OFDM 16QAM	1	1	20.59	0-1	0.0	DFT-s-OFDM 16QAM	1	1	19.21	0-1	0.0
CP-OFDM QPSK	1	1	20.70	0-1.5	0.0	CP-OFDM QPSK	1	1	19.82	0-1.5	0.0

Table 8-111
NR Band n77 Measured P_{Limit} Antenna 4 – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						NR Band n77 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]				MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	650000 (3750 MHz)			Modulation	RB Size	RB Offset			662000 (3930 MHz)
			Conducted Power [dBm]								
DFT-s-OFDM QPSK	1	1	18.75	0	0.0	DFT-s-OFDM QPSK	1	1	19.74	0	0.0
	1	137	19.59		0.0		1	137	19.83		0.0
	1	271	18.65		0.0		1	271	19.60		0.0
	135	0	19.56	0-1	0.0		135	0	20.02	0-1	0.0
	135	69	19.55	0	0.0		135	69	19.81	0	0.0
	135	138	19.20	0-1	0.0		135	138	19.94	0-1	0.0
	270	0	19.55		0.0		270	0	19.76		0.0
DFT-s-OFDM 16QAM	1	1	18.70	0-1	0.0	DFT-s-OFDM 16QAM	1	1	19.34	0-1	0.0
CP-OFDM QPSK	1	1	18.80	0-1.5	0.0	CP-OFDM QPSK	1	1	19.82	0-1.5	0.0

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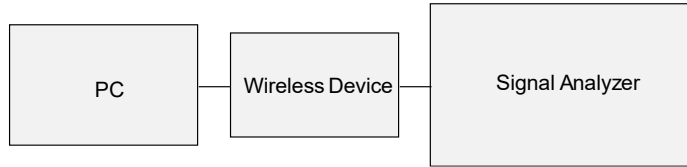


Figure 8-3
Power Measurement Setup

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8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-112
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a

2.4GHz WIFI (20MHz 802.11b SISO Ant 3a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.18
2437	6		19.07
2462	11		19.02
2.4GHz WIFI (20MHz 802.11g SISO Ant 3a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2417	2	Average	16.67
2437	6		18.46
2457	10		18.23
2.4GHz WIFI (20MHz 802.11n SISO Ant 3a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2417	2	Average	16.81
2437	6		18.58
2457	10		18.07
2.4GHz WIFI (20MHz 802.11ax SISO Ant 3a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2417	2	Average	16.76
2437	6		18.48
2457	10		16.56

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Table 8-113
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a

2.4GHz WIFI (20MHz 802.11b SISO Ant 1a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.97
2437	6		19.10
2462	11		19.13
2.4GHz WIFI (20MHz 802.11g SISO Ant 1a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2417	2	Average	18.25
2437	6		18.53
2457	10		18.35
2.4GHz WIFI (20MHz 802.11n SISO Ant 1a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2417	2	Average	18.29
2437	6		18.52
2457	10		18.20
2.4GHz WIFI (20MHz 802.11ax SISO Ant 1a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2417	2	Average	17.18
2437	6		18.55
2457	10		16.66

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8.5 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-114

2.4 GHz WLAN Reduced Budget Average RF Power – Antenna 3a

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.11
2437	6		16.19
2462	11		16.07

Table 8-115

2.4 GHz WLAN Reduced Budget Average RF Power – Antenna 1a

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.10
2437	6		16.12
2462	11		16.07

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8.6 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-116
5 GHz WLAN Maximum Average RF Power – Antenna WF5T

5GHz WIFI (40MHz 802.11n SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.27
	5230	46	18.23
UNII-2A	5270	54	18.35
	5310	62	16.82
5GHz WIFI (80MHz 802.11ac SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.44
	5610	122	17.37
	5690	138	17.26
UNII-3	5775	155	17.36
5GHz WIFI (40MHz 802.11ac SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.52
	5230	46	18.20
UNII-2A	5270	54	18.17
	5310	62	16.46
5GHz WIFI (40MHz 802.11ax SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.34
	5230	46	18.29
UNII-2A	5270	54	18.19
	5310	62	15.86
5GHz WIFI (80MHz 802.11ax SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.96
	5610	122	17.18
	5690	138	17.14
UNII-3	5775	155	16.87

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Table 8-117
5 GHz WLAN Maximum Average RF Power – Antenna WF5B

5GHz WIFI (40MHz 802.11n SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.41
	5230	46	16.73
UNII-2A	5270	54	16.87
	5310	62	16.51
5GHz WIFI (80MHz 802.11ac SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.03
	5610	122	16.81
	5690	138	16.77
UNII-3	5775	155	16.68
5GHz WIFI (40MHz 802.11ac SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.14
	5230	46	16.93
UNII-2A	5270	54	17.03
	5310	62	16.50
5GHz WIFI (40MHz 802.11ax SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.15
	5230	46	16.89
UNII-2A	5270	54	17.00
	5310	62	15.76
5GHz WIFI (80MHz 802.11ax SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.63
	5610	122	16.90
	5690	138	16.91
UNII-3	5775	155	16.53

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Table 8-118
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	14.59
	5230	46	16.93
UNII-2A	5270	54	16.80
	5310	62	16.38
5GHz WIFI (80MHz 802.11ac SISO Ant 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.89
	5610	122	16.91
	5690	138	16.81
UNII-3	5775	155	16.34
5GHz WIFI (40MHz 802.11ac SISO Ant 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.04
	5230	46	16.68
UNII-2A	5270	54	16.85
	5310	62	16.43
5GHz WIFI (40MHz 802.11ax SISO Ant 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.02
	5230	46	16.73
UNII-2A	5270	54	16.92
	5310	62	15.88
5GHz WIFI (80MHz 802.11ax SISO Ant 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.72
	5610	122	16.63
	5690	138	16.49
UNII-3	5775	155	16.17

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8.7 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-119

5 GHz WLAN Reduced Budget Average RF Power – Antenna WF5T

5GHz WIFI (80MHz 802.11ac SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.01
UNII-2A	5290	58	15.92
UNII-2C	5530	106	14.88
	5610	122	14.92
	5690	138	15.11
UNII-3	5775	155	14.81

Table 8-120

5 GHz WLAN Reduced Budget Average RF Power – Antenna WF5B

5GHz WIFI (80MHz 802.11ac SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.28
UNII-2A	5290	58	15.67
UNII-2C	5530	106	15.25
	5610	122	15.21
	5690	138	15.31
UNII-3	5775	155	15.12

Table 8-121

5 GHz WLAN Reduced Budget Average RF Power – Antenna 1b

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.92
UNII-2A	5290	58	15.81
UNII-2C	5530	106	13.10
	5610	122	13.16
	5690	138	13.19
UNII-3	5775	155	13.57

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8.8 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-127
6 GHz WLAN Maximum Average RF Power – Antenna WF5T

6GHz WIFI (160MHz 802.11ax SISO Ant WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.89
	6185	47	11.90
	6345	79	10.96
UNII-6	6505	111	12.14
UNII-7	6665	143	11.65
	6825	175	12.51
UNII-8	6985	207	13.99

Table 8-128
6 GHz WLAN Maximum Average RF Power – Antenna WF5B

6GHz WIFI (160MHz 802.11ax SISO Ant WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.11
	6185	47	12.63
	6345	79	11.98
UNII-6	6505	111	12.16
UNII-7	6665	143	12.95
	6825	175	14.40
UNII-8	6985	207	12.47

Table 8-129
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	11.08
	6185	47	11.17
	6345	79	11.21
UNII-6	6505	111	12.42
UNII-7	6665	143	13.84
	6825	175	13.79
UNII-8	6985	207	14.66

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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.

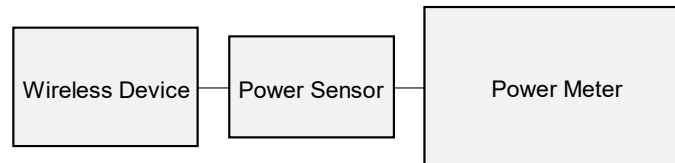


Figure 8-4
Power Measurement Setup

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8.10 Bluetooth Maximum Conducted Powers

Table 8-130
Bluetooth Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.26	84.333
2441	GFSK	1.0	39	19.67	92.683
2480	GFSK	1.0	78	19.48	88.716

Table 8-131
Bluetooth Average RF Power – Antenna 1a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.37	86.497
2441	GFSK	1.0	39	19.30	85.114
2480	GFSK	1.0	78	19.32	85.507

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8.11 Bluetooth Reduced Conducted Powers

Table 8-132
Bluetooth Reduced Budget Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.09	40.644
2441	GFSK	1.0	39	16.26	42.267
2480	GFSK	1.0	78	16.25	42.170

Table 8-133
Bluetooth Reduced Budget Average RF Power – Antenna 1a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.45	44.157
2441	GFSK	1.0	39	16.36	43.251
2480	GFSK	1.0	78	16.43	43.954

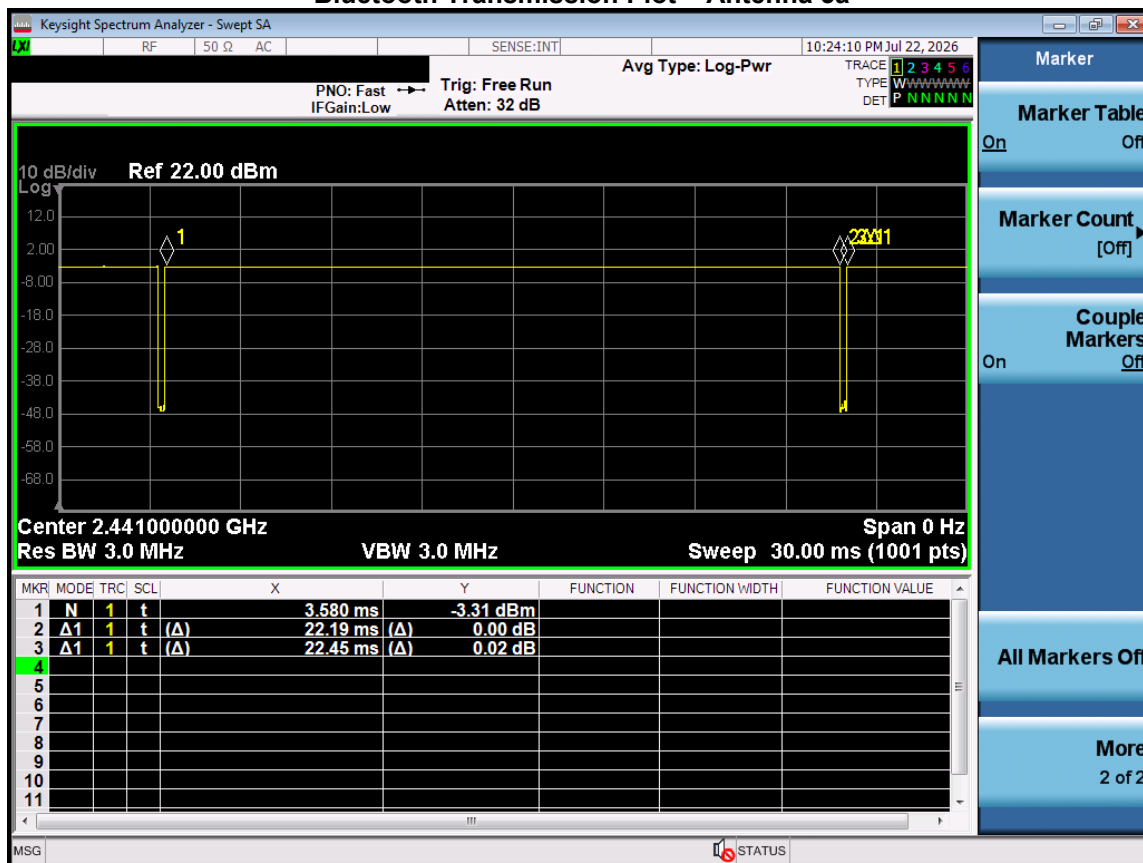
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8.12 Bluetooth Duty Cycle Plots

Figure 8-5
Bluetooth Transmission Plot – Antenna 3a



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

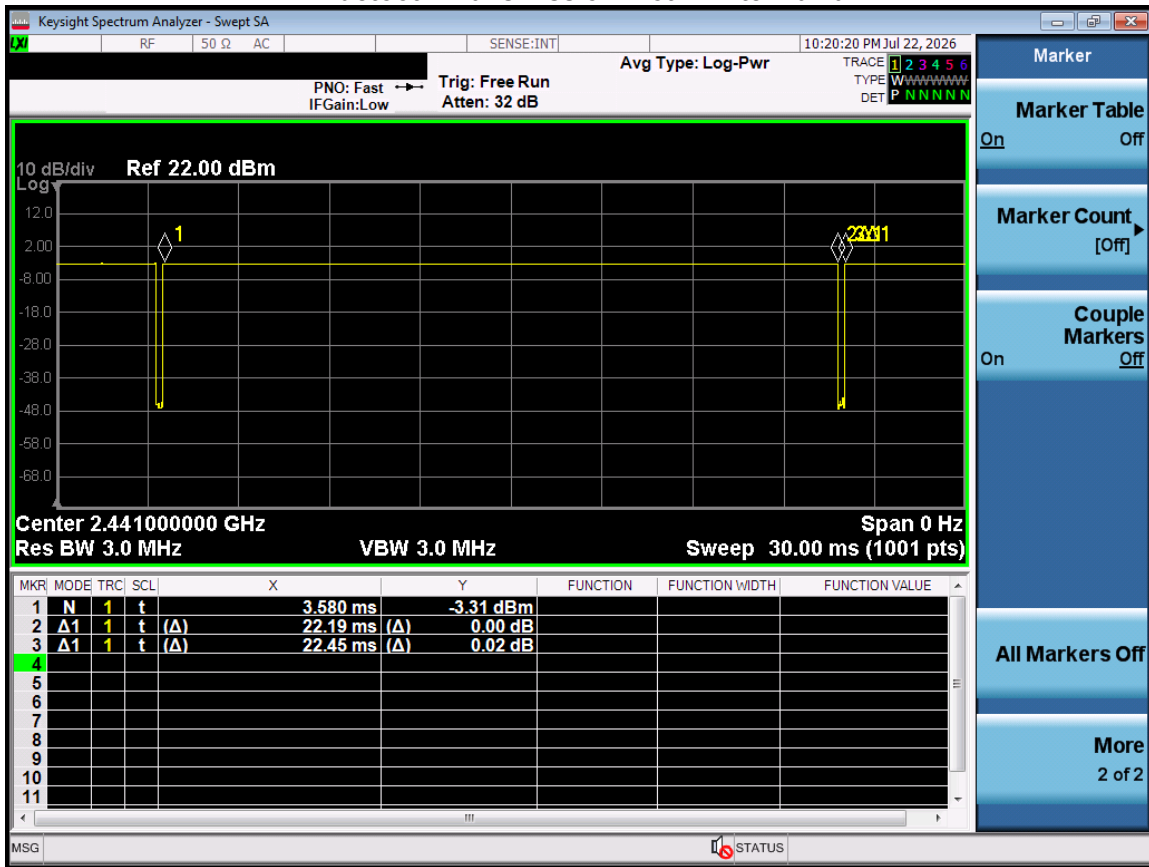
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{22.19 \text{ ms}}{22.45 \text{ ms}} * 100\% = 98.84\%$$

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Bluetooth Transmission Plot – Antenna 1a



Bluetooth Duty Cycle Calculation – Antenna 1a

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{22.19\ ms}{22.45\ ms} * 100\% = 98.84\%$$

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8.13 802.15.4 Maximum Conducted Powers

Table 8-134
802.15.4 Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	19.21	83.368
2440	O-QPSK	1.0	18	19.39	86.896
2475	O-QPSK	1.0	25	19.14	82.035

Table 8-135
802.15.4 Average RF Power – Antenna 1a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	19.61	91.411
2440	O-QPSK	1.0	18	19.49	88.920
2475	O-QPSK	1.0	25	19.46	88.308

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8.14 802.15.4 Reduced Conducted Powers

Table 8-136
802.15.4 Reduced Budget Average RF Power – Antenna 3a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	16.22	41.879
2440	O-QPSK	1.0	18	16.37	43.351
2475	O-QPSK	1.0	25	16.31	42.756

Table 8-137
802.15.4 Reduced Budget Average RF Power – Antenna 1a

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	16.60	45.709
2440	O-QPSK	1.0	18	16.40	43.652
2475	O-QPSK	1.0	25	16.53	44.978

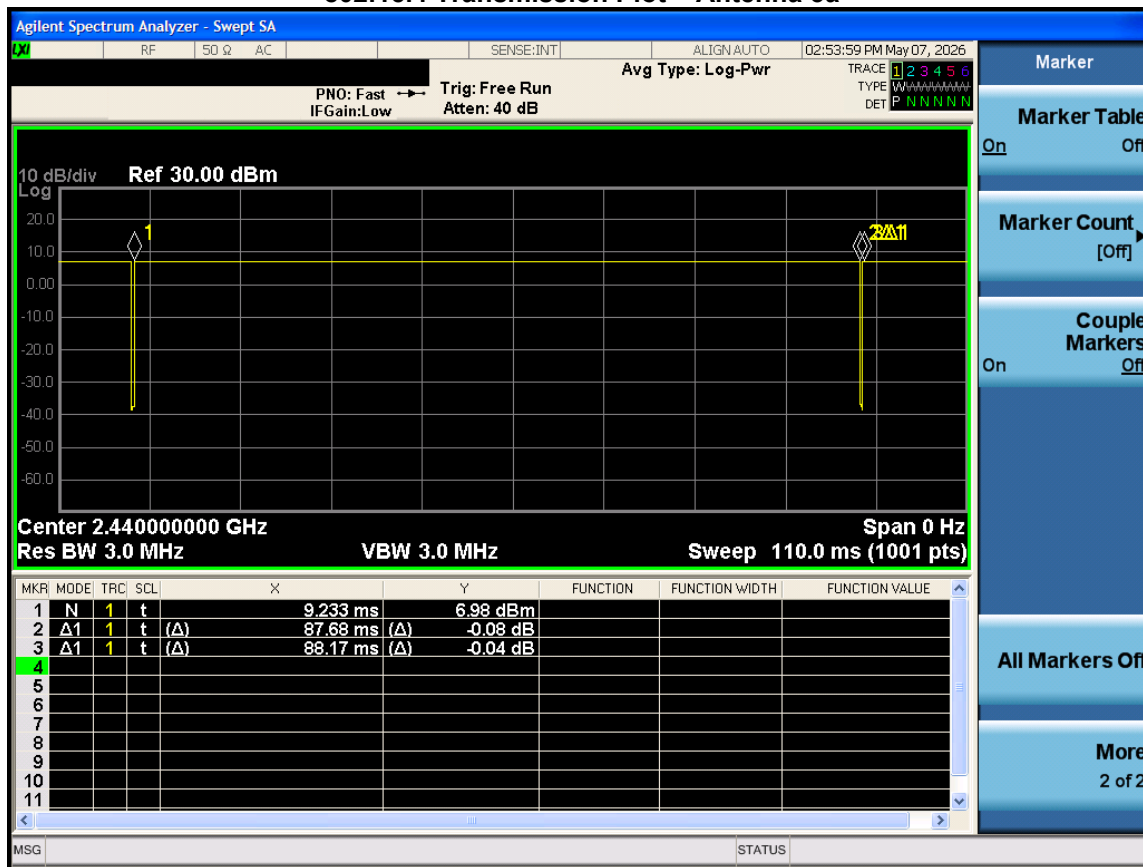
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8.15 802.15.4 Duty Cycle Plots

Figure 8-7
802.15.4 Transmission Plot – Antenna 3a



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

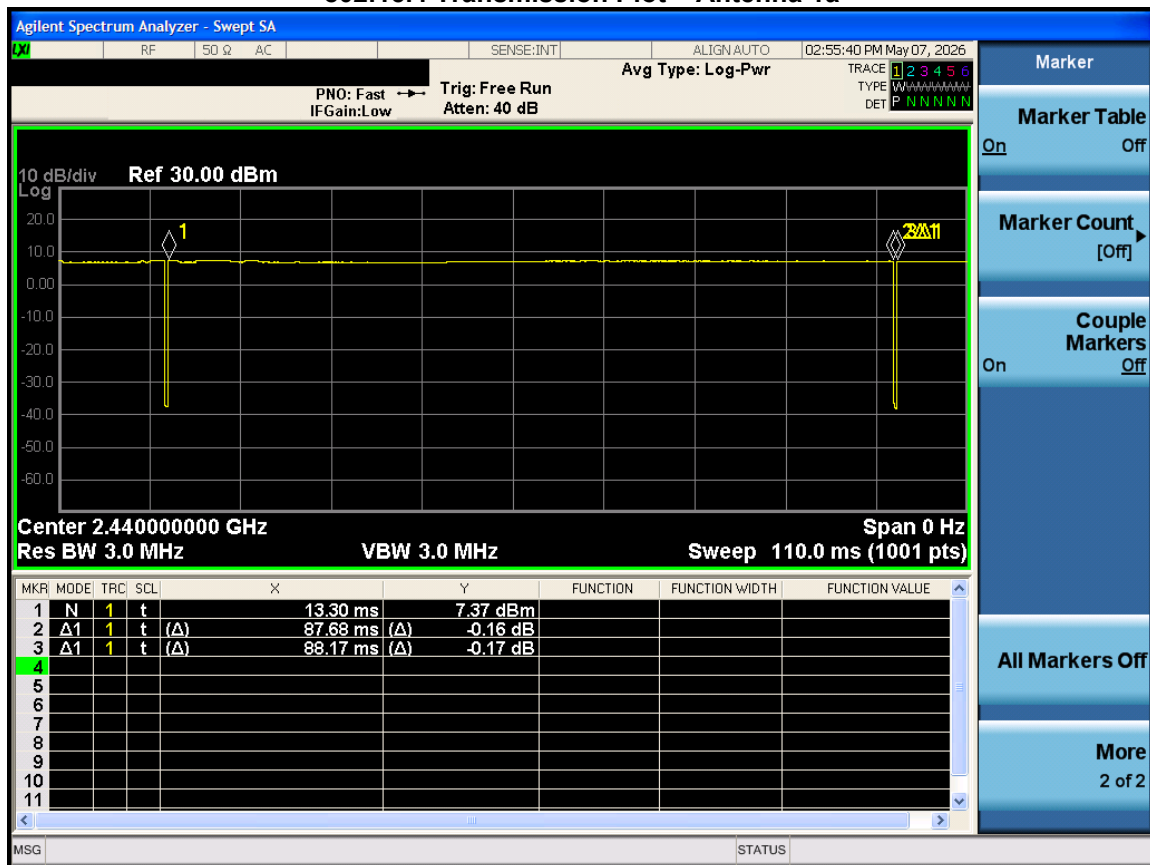
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{87.68 \text{ ms}}{88.17 \text{ ms}} * 100\% = 99.44\%$$

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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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{87.68 \text{ ms}}{88.17 \text{ ms}} * 100\% = 99.44\%$$

8.16 Notes for Bluetooth/802.15.4

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

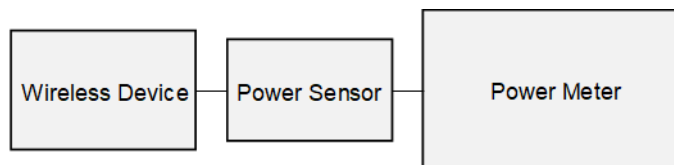


Figure 8-9
Power Measurement Setup

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8.17 NB UNII Maximum Conducted Powers

Table 8-138
NB UNII Average RF Power – Antenna WF5T

Type	Band	Frequency	Avg. Conducted Power [dBm]
HDRPM4	U-NII 1	5162	12.98
		5204	12.99
		5245	13.00
BDR	U-NII 3	5733	17.49
		5789	17.44
		5844	17.45
HDRPL8	U-NII 5	6109	-4.48
		6186	-4.11
		6263	-4.31
		6340	-4.04
		6417	-4.41

Table 8-139
NB UNII Average RF Power – Antenna WF5B

Type	Band	Frequency	Avg. Conducted Power [dBm]
HDR8	U-NII 1	5162	11.24
		5204	11.22
		5245	11.30
BDR	U-NII 3	5733	17.40
		5789	17.43
		5844	17.44
HDRPL8	U-NII 5	6109	-4.11
		6186	-3.81
		6263	-3.99
		6340	-3.77
		6417	-3.76

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Table 8-140
NB UNII Average RF Power – Antenna 1b

Type	Band	Frequency	Avg. Conducted Power [dBm]
HDR4	U-NII 1	5162	10.77
		5204	10.50
		5245	10.40
BDR	U-NII 3	5733	16.13
		5789	16.20
		5844	16.23
HDRPL8	U-NII 5	6109	-2.54
		6186	-2.79
		6263	-2.70
		6340	-2.55
		6417	-2.99

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8.18 NB UNII Reduced Conducted Powers

Table 8-141
NB UNII Reduced Budget Average RF Power – Antenna WF5T

Type	Band	Frequency	Avg. Conducted Power [dBm]
BDR	U-NII 3	5733	13.45
		5789	13.48
		5844	13.56

Table 8-142
NB UNII Reduced Budget Average RF Power – Antenna WF5B

Type	Band	Frequency	Avg. Conducted Power [dBm]
BDR	U-NII 3	5733	16.10
		5789	16.13
		5844	16.16

Table 8-143
NB UNII Reduced Budget Average RF Power – Antenna 1b

Type	Band	Frequency	Avg. Conducted Power [dBm]
BDR	U-NII 3	5733	13.12
		5789	13.17
		5844	13.15

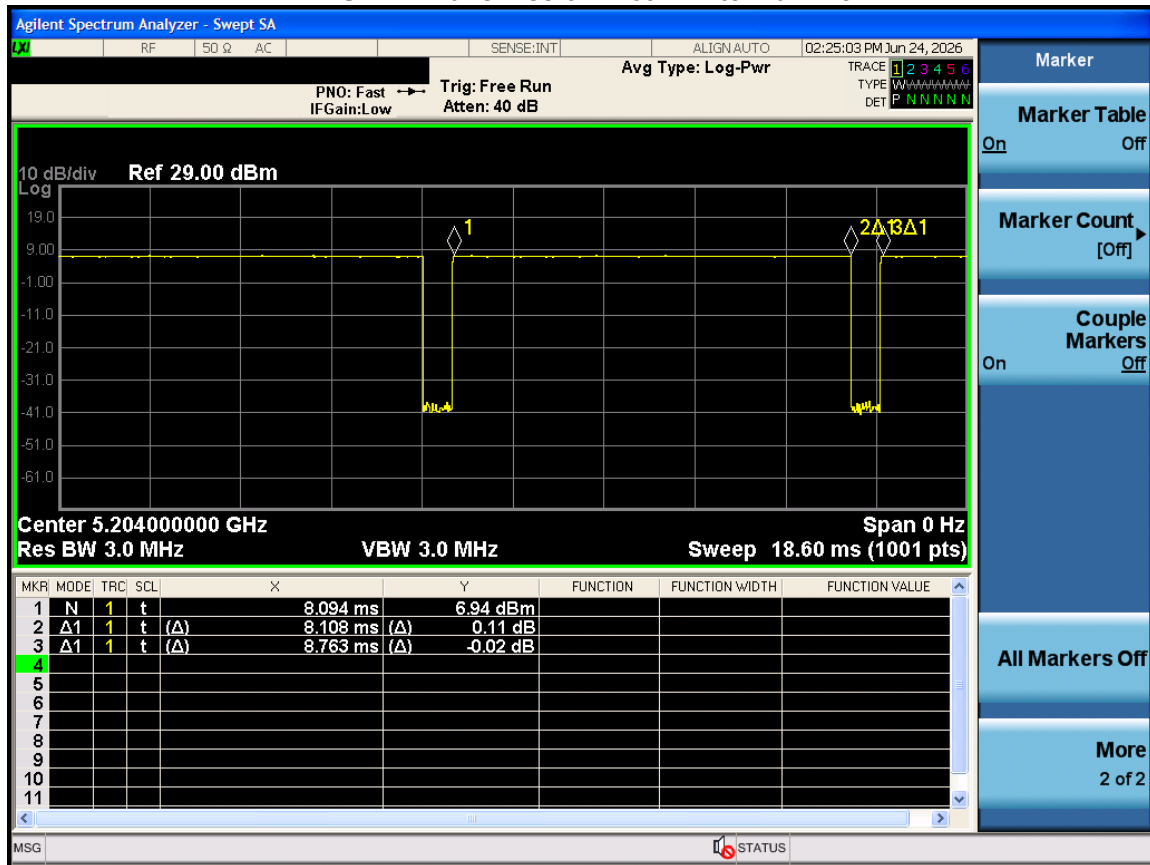
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8.19 NB UNII Duty Cycle Plots

Figure 8-10
NB UNII 1 Transmission Plot – Antenna WF5T

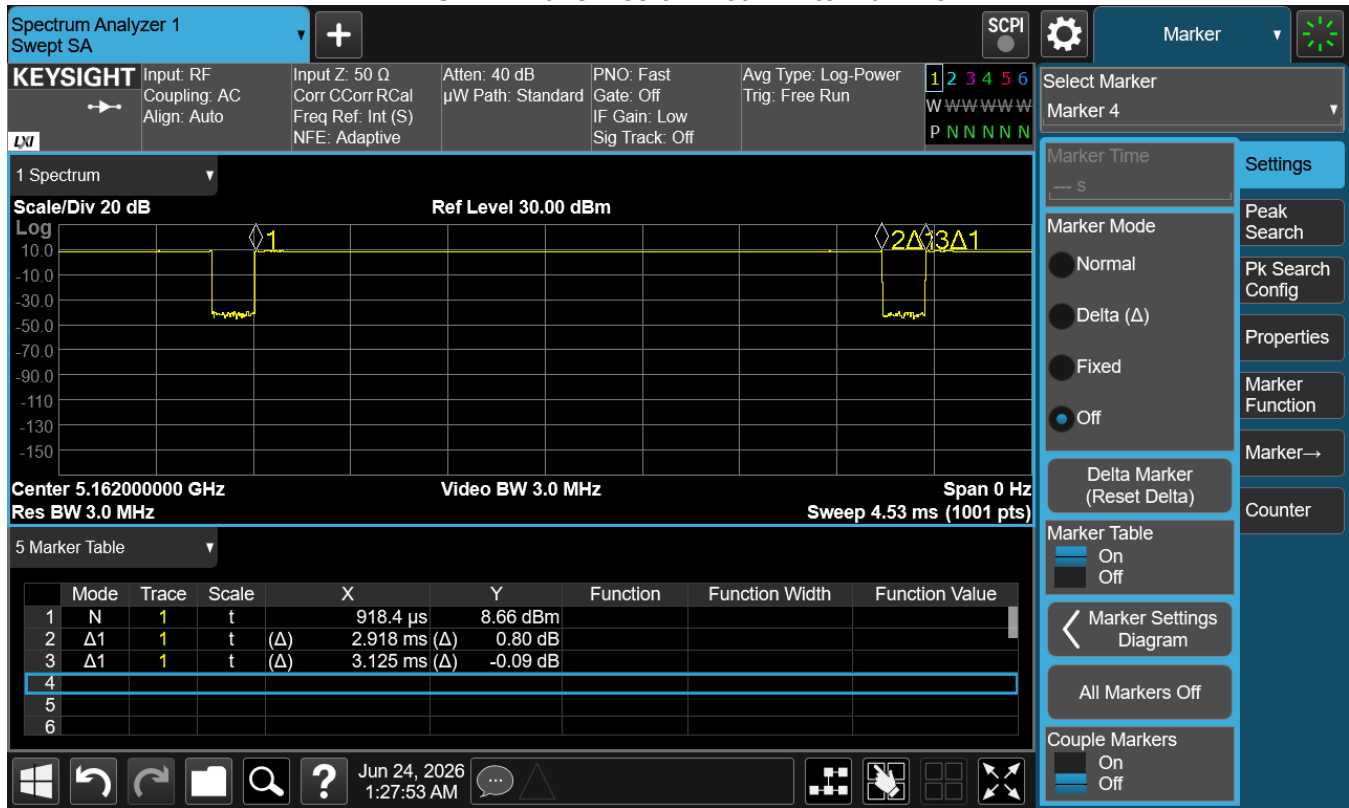


Equation 8-5
NB UNII 1 Duty Cycle Calculation – Antenna WF5T

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{8.108 \text{ ms}}{8.763 \text{ ms}} * 100\% = 92.53\%$$

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Figure 8-11
NB UNII 1 Transmission Plot – Antenna WF5B



Equation 8-6
NB UNII 1 Duty Cycle Calculation – Antenna WF5B

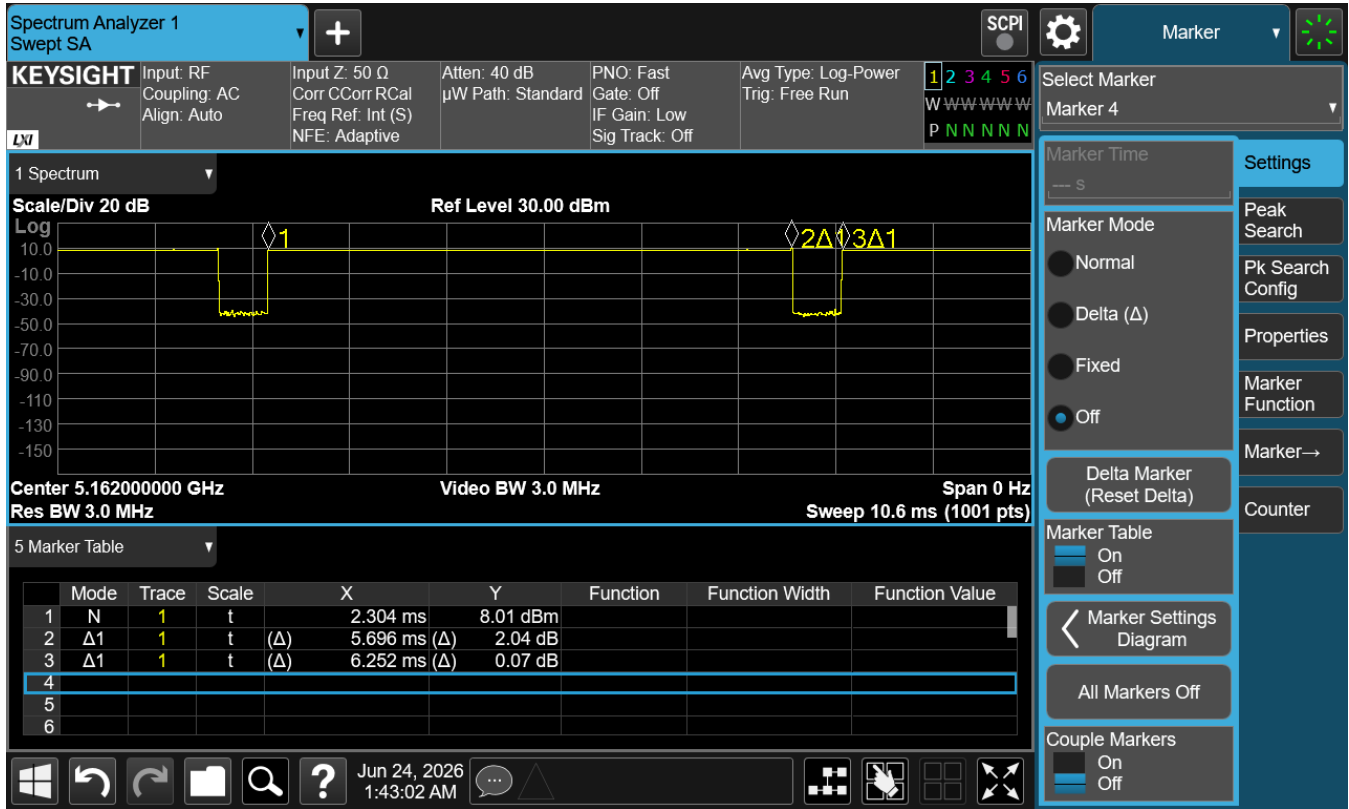
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.918 \text{ ms}}{3.125 \text{ ms}} * 100\% = 93.38\%$$

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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

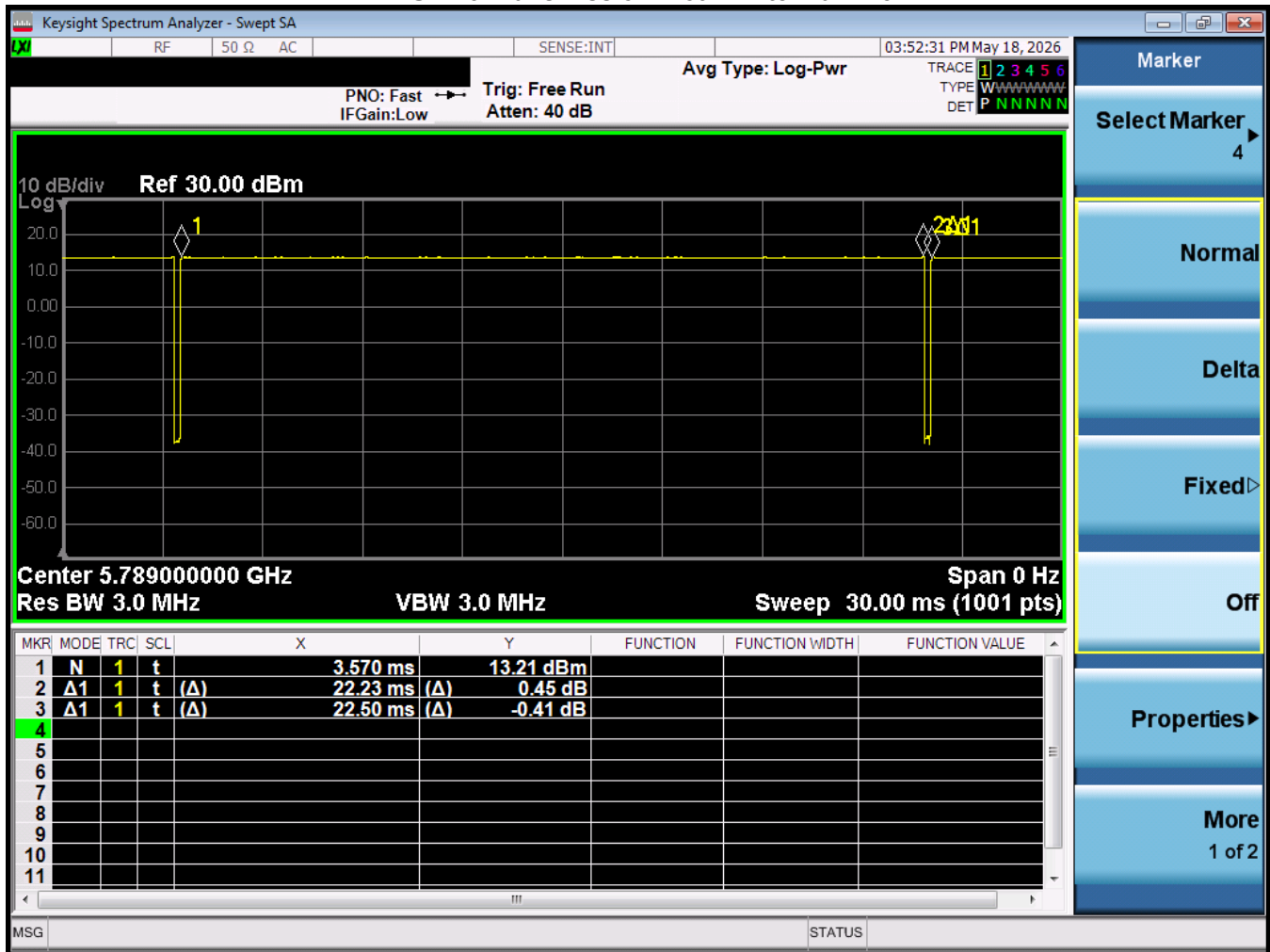
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{5.696 \text{ ms}}{6.252 \text{ ms}} * 100\% = 91.11\%$$

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Figure 8-13
NB UNII 3 Transmission Plot – Antenna WF5T



Equation 8-8
NB UNII 3 Duty Cycle Calculation – Antenna WF5T

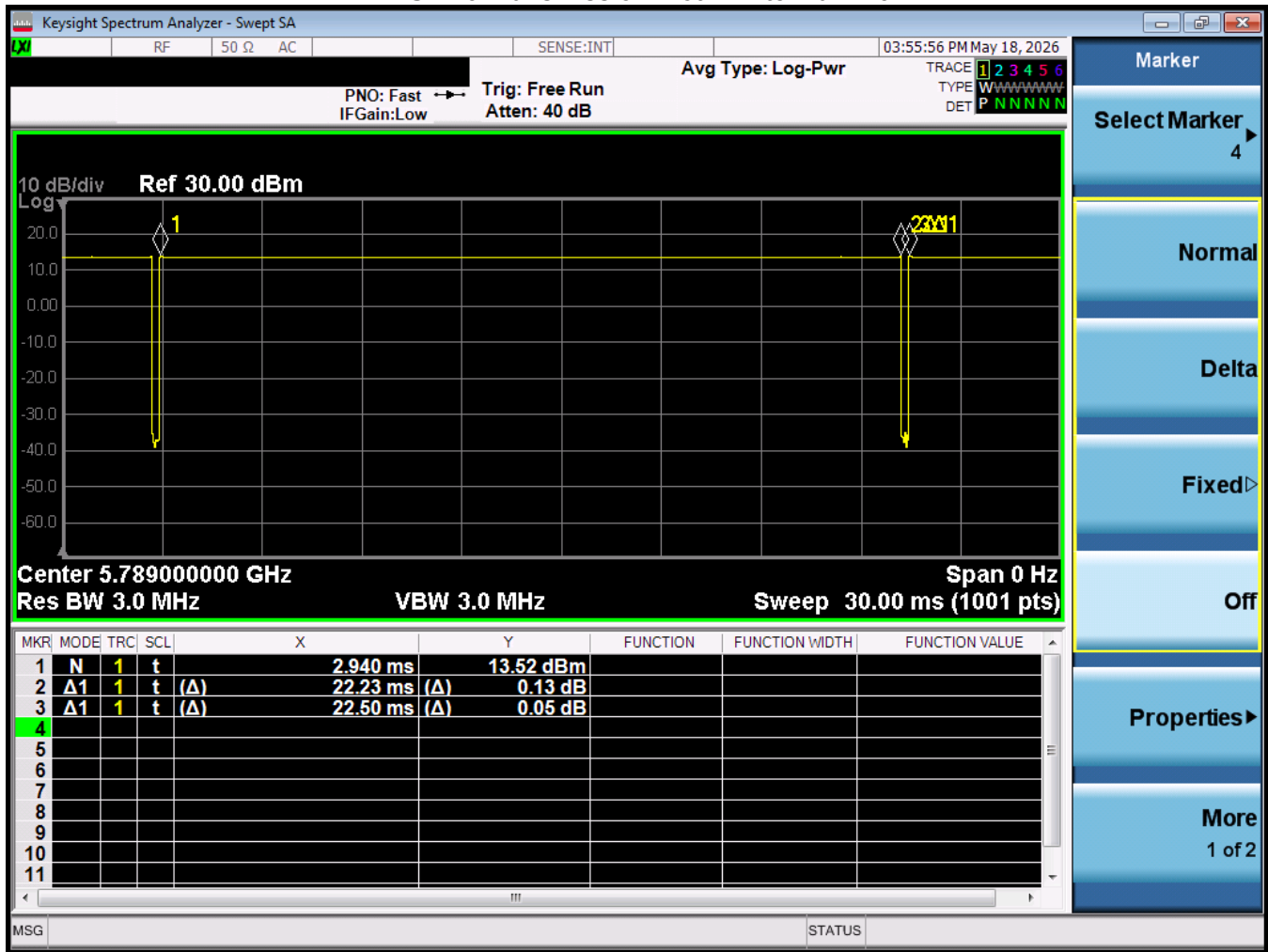
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{22.23\ ms}{22.50\ ms} * 100\% = 98.80\%$$

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Figure 8-14
NB UNII 3 Transmission Plot – Antenna WF5B



Equation 8-9
NB UNII 3 Duty Cycle Calculation – Antenna WF5B

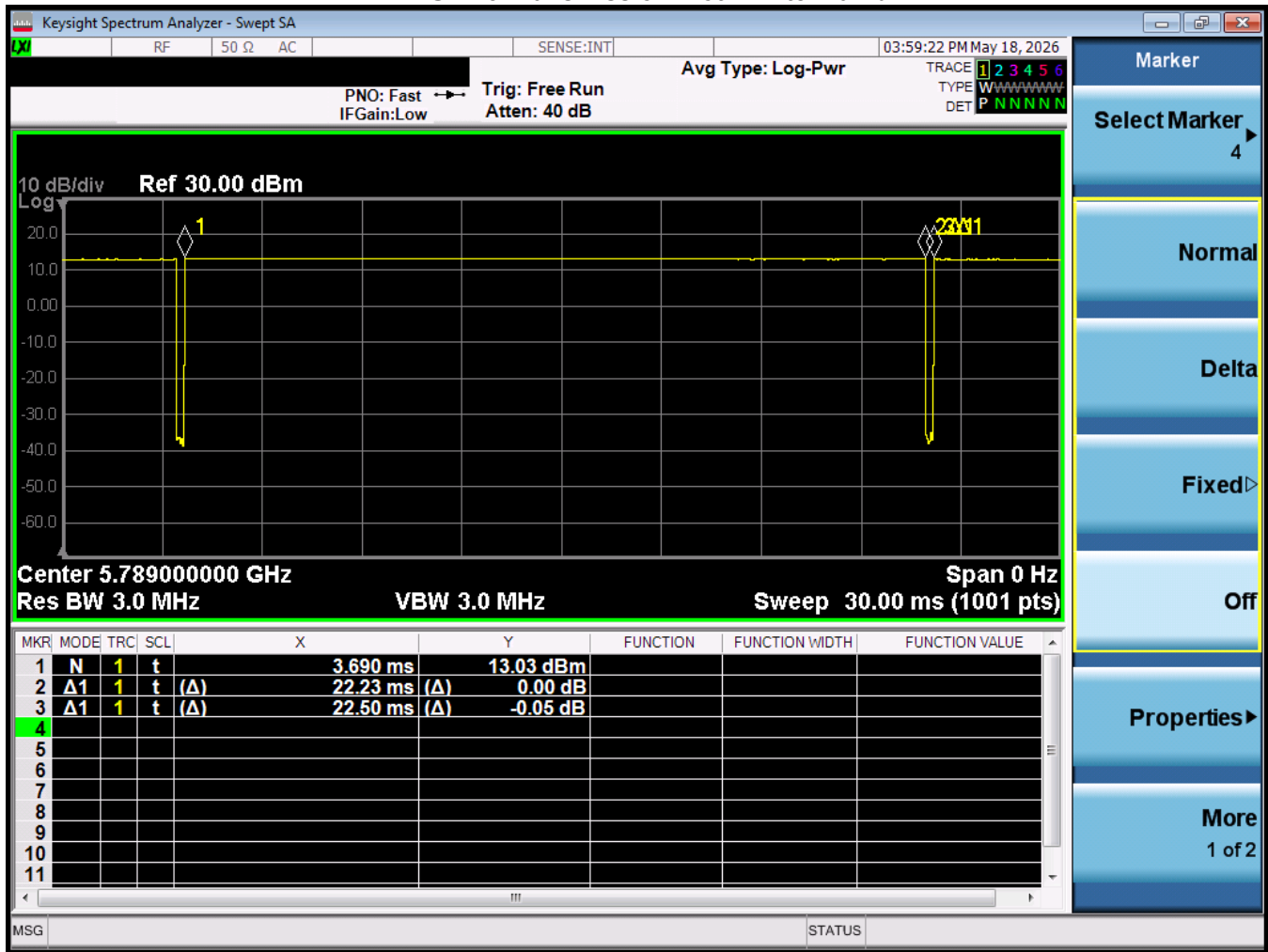
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{22.23\ ms}{22.50\ ms} * 100\% = 98.80\%$$

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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

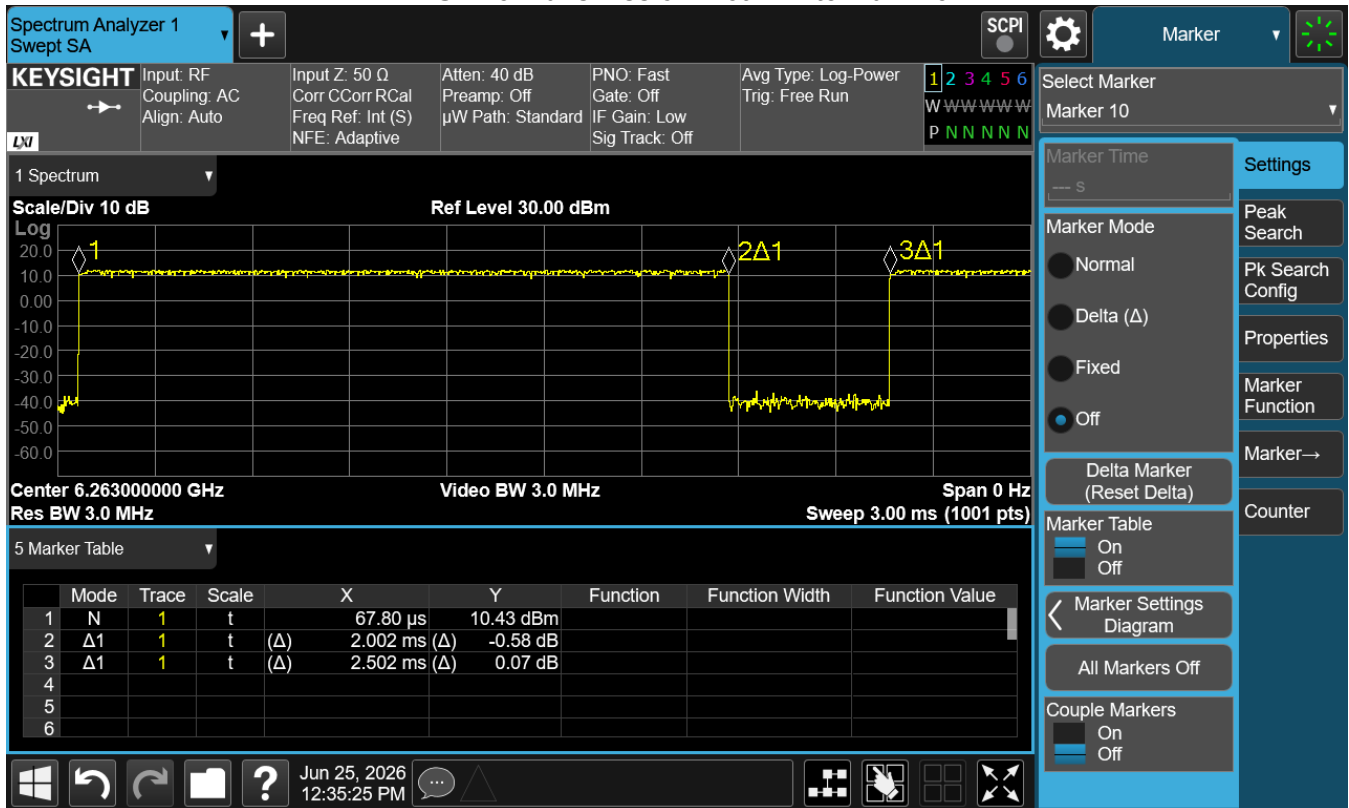
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{22.23 \text{ ms}}{22.50 \text{ ms}} * 100\% = 98.80\%$$

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Figure 8-16
NB UNII 5 Transmission Plot – Antenna WF5T



Equation 8-11
NB UNII 5 Duty Cycle Calculation – Antenna WF5T

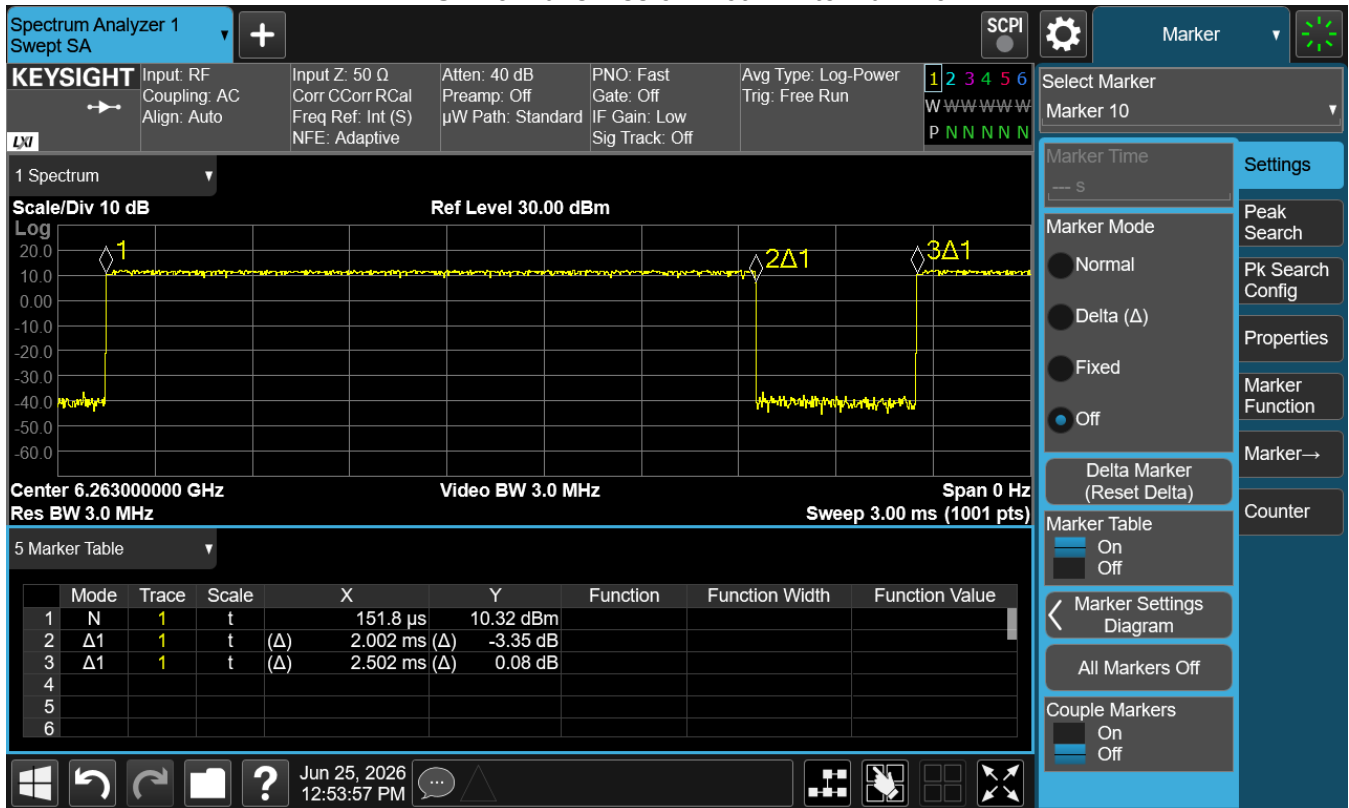
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.002 \text{ ms}}{2.502 \text{ ms}} * 100\% = 80.02\%$$

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Figure 8-17
NB UNII 5 Transmission Plot – Antenna WF5B



Equation 8-12
NB UNII 5 Duty Cycle Calculation – Antenna WF5B

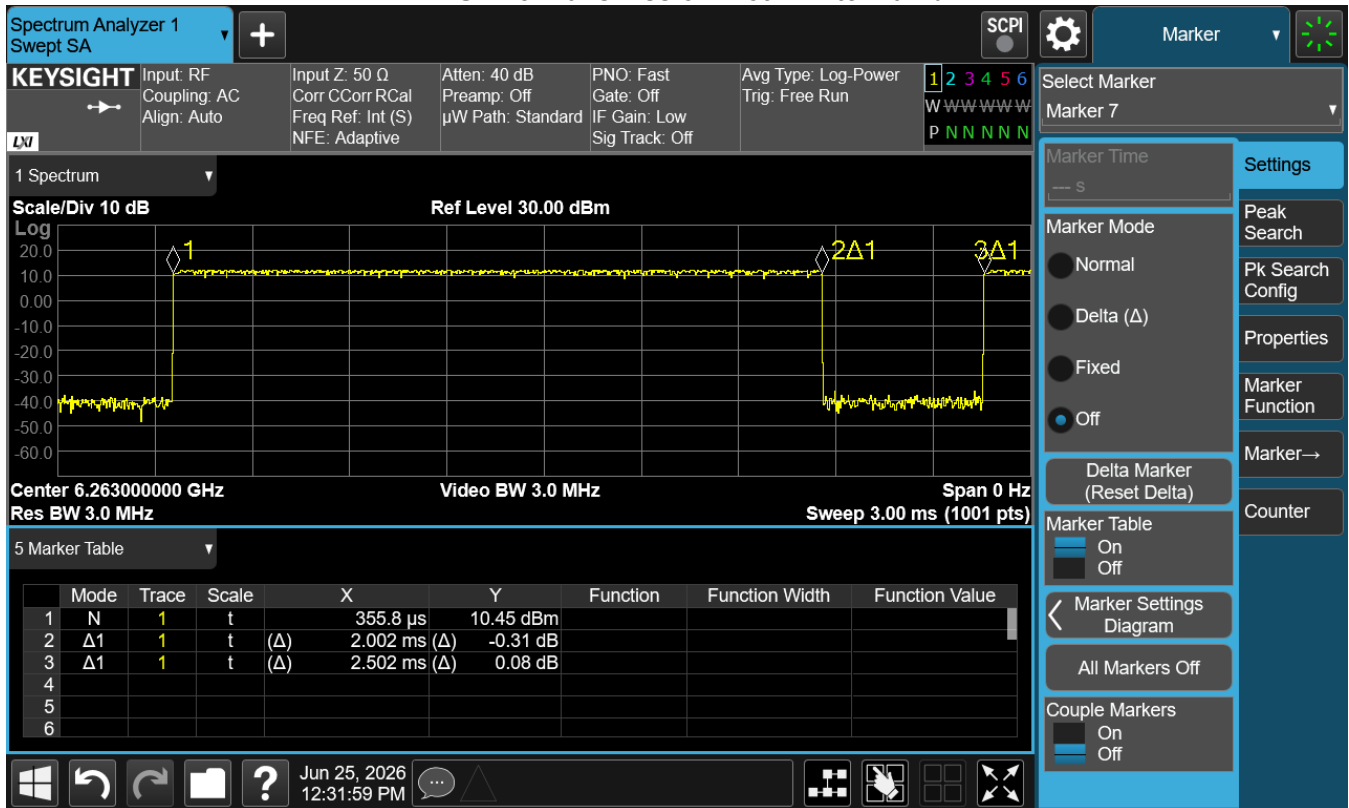
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.002 \text{ ms}}{2.502 \text{ ms}} * 100\% = 80.02\%$$

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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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.002 \text{ ms}}{2.502 \text{ ms}} * 100\% = 80.02\%$$

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8.20 Notes for NB UNII

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

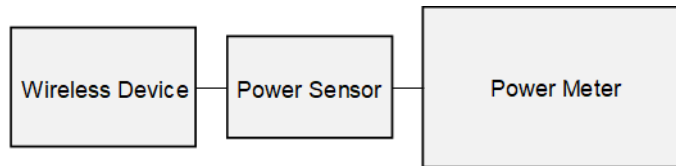


Figure 8-19

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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
7/13/2026	30 Head	24.9	12	0.739	52.669	0.750	55.000	-1.47%	-4.24%
			13	0.739	52.610	0.750	55.000	-1.47%	-4.35%
			14	0.739	52.475	0.750	55.000	-1.47%	-4.59%
5/17/2026	750 Head	24.9	680	0.858	40.222	0.888	42.305	-3.38%	-4.92%
			695	0.863	40.177	0.889	42.227	-2.92%	-4.85%
			700	0.865	40.164	0.889	42.201	-2.70%	-4.83%
			710	0.868	40.137	0.890	42.149	-2.47%	-4.77%
			725	0.873	40.095	0.891	42.071	-2.02%	-4.70%
			750	0.880	40.019	0.894	41.942	-1.57%	-4.58%
			770	0.885	39.942	0.895	41.838	-1.12%	-4.53%
			785	0.890	39.882	0.896	41.760	-0.67%	-4.50%
			800	0.895	39.827	0.897	41.682	-0.22%	-4.45%
5/19/2026	750 Head	24.4	680	0.871	40.266	0.888	42.305	-1.91%	-4.82%
			695	0.876	40.229	0.889	42.227	-1.46%	-4.73%
			700	0.877	40.217	0.889	42.201	-1.35%	-4.70%
			710	0.880	40.192	0.890	42.149	-1.12%	-4.64%
			725	0.885	40.158	0.891	42.071	-0.67%	-4.55%
			750	0.891	40.086	0.894	41.942	-0.34%	-4.43%
			770	0.897	40.019	0.895	41.838	0.22%	-4.35%
			785	0.902	39.976	0.896	41.760	0.67%	-4.27%
			800	0.907	39.928	0.897	41.682	1.11%	-4.21%
5/21/2026	750 Head	24.6	680	0.861	40.505	0.888	42.305	-3.04%	-4.25%
			695	0.865	40.463	0.889	42.227	-2.70%	-4.18%
			700	0.866	40.450	0.889	42.201	-2.59%	-4.15%
			710	0.870	40.423	0.890	42.149	-2.25%	-4.09%
			725	0.874	40.388	0.891	42.071	-1.91%	-4.00%
			750	0.881	40.315	0.894	41.942	-1.45%	-3.88%
			770	0.887	40.253	0.895	41.838	-0.89%	-3.79%
			785	0.892	40.218	0.896	41.760	-0.45%	-3.69%
			800	0.897	40.181	0.897	41.682	0.00%	-3.60%
5/26/2026	750 Head	24.9	680	0.845	40.755	0.888	42.305	-4.84%	-3.66%
			695	0.849	40.700	0.889	42.227	-4.50%	-3.62%
			700	0.851	40.681	0.889	42.201	-4.27%	-3.60%
			710	0.854	40.647	0.890	42.149	-4.04%	-3.56%
			725	0.859	40.601	0.891	42.071	-3.59%	-3.49%
			750	0.867	40.556	0.894	41.942	-3.02%	-3.30%
			770	0.873	40.526	0.895	41.838	-2.46%	-3.14%
			785	0.878	40.502	0.896	41.760	-2.01%	-3.01%
			800	0.883	40.467	0.897	41.682	-1.56%	-2.91%
5/28/2026	750 Head	24.9	680	0.881	40.538	0.888	42.305	-0.79%	-4.18%
			695	0.887	40.502	0.889	42.227	-0.22%	-4.09%
			700	0.889	40.486	0.889	42.201	0.00%	-4.06%
			710	0.893	40.446	0.890	42.149	0.34%	-4.04%
			725	0.898	40.358	0.891	42.071	0.79%	-4.07%
			750	0.905	40.190	0.894	41.942	1.23%	-4.18%
			770	0.910	40.095	0.895	41.838	1.68%	-4.17%
			785	0.916	40.072	0.896	41.760	2.23%	-4.04%
			800	0.921	40.066	0.897	41.682	2.68%	-3.88%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/10/2026	750 Head	24.9	680	0.893	40.598	0.888	42.305	0.56%	-4.03%
			695	0.897	40.548	0.889	42.227	0.90%	-3.98%
			700	0.899	40.531	0.889	42.201	1.12%	-3.96%
			710	0.902	40.494	0.890	42.149	1.35%	-3.93%
			725	0.907	40.445	0.891	42.071	1.80%	-3.86%
			750	0.914	40.364	0.894	41.942	2.24%	-3.76%
			770	0.920	40.303	0.895	41.838	2.79%	-3.67%
			785	0.924	40.257	0.896	41.760	3.13%	-3.60%
5/15/2026	835 Head	21.0	800	0.929	40.219	0.897	41.682	3.57%	-3.51%
			815	0.891	42.191	0.898	41.594	-0.78%	1.44%
			820	0.895	42.130	0.899	41.578	-0.44%	1.33%
			835	0.909	41.952	0.900	41.500	1.00%	1.09%
			850	0.923	41.771	0.916	41.500	0.76%	0.65%
5/21/2026	835 Head	19.8	880	0.953	41.367	0.950	41.500	0.32%	-0.32%
			900	0.974	41.094	0.970	41.500	0.41%	-0.98%
			815	0.893	42.991	0.898	41.594	-0.59%	3.36%
			820	0.898	42.925	0.899	41.578	-0.14%	3.24%
			835	0.912	42.739	0.900	41.500	1.37%	2.99%
5/22/2026	835 Head	24.9	850	0.927	42.560	0.916	41.500	1.17%	2.55%
			880	0.956	42.192	0.950	41.500	0.66%	1.67%
			900	0.976	41.944	0.970	41.500	0.63%	1.07%
			815	0.871	40.607	0.898	41.594	-3.01%	-2.37%
5/28/2026	835 Head	19.9	820	0.873	40.595	0.899	41.578	-2.89%	-2.36%
			835	0.878	40.562	0.900	41.500	-2.44%	-2.26%
			850	0.883	40.533	0.916	41.500	-3.60%	-2.33%
			815	0.892	41.304	0.898	41.594	-0.67%	-0.70%
6/18/2026	835 Head	24.9	820	0.897	41.242	0.899	41.578	-0.22%	-0.81%
			835	0.913	41.051	0.900	41.500	1.44%	-1.08%
			850	0.928	40.856	0.916	41.500	1.31%	-1.55%
			815	0.909	41.218	0.898	41.594	1.22%	-0.90%
			820	0.910	41.203	0.899	41.578	1.22%	-0.90%
			835	0.915	41.161	0.900	41.500	1.67%	-0.82%
			850	0.919	41.124	0.916	41.500	0.33%	-0.91%
			880	0.927	41.021	0.950	41.500	-2.42%	-1.15%
			900	0.933	40.970	0.970	41.500	-3.81%	-1.28%
			915	0.939	40.953	0.976	41.474	-3.79%	-1.26%
			920	0.940	40.949	0.978	41.465	-3.89%	-1.24%
			950	0.950	40.921	0.991	41.413	-4.14%	-1.19%
5/19/2026	1750 Head	20.7	1000	0.967	40.782	1.013	41.325	-4.54%	-1.31%
			1050	0.983	40.714	1.034	41.238	-4.93%	-1.27%
			1700	1.291	40.265	1.343	40.145	-3.87%	0.30%
			1705	1.293	40.252	1.345	40.141	-3.87%	0.28%
			1710	1.295	40.239	1.348	40.136	-3.93%	0.26%
			1720	1.302	40.215	1.354	40.126	-3.84%	0.22%
			1745	1.320	40.191	1.368	40.087	-3.51%	0.26%
			1750	1.323	40.190	1.371	40.079	-3.50%	0.28%
5/26/2026	1750 Head	19.0	1770	1.335	40.185	1.383	40.047	-3.47%	0.34%
			1790	1.345	40.166	1.394	40.016	-3.52%	0.37%
			1700	1.300	39.060	1.343	40.145	-3.20%	-2.70%
			1705	1.306	39.036	1.345	40.141	-2.90%	-2.75%
			1710	1.311	39.012	1.348	40.136	-2.74%	-2.80%
			1720	1.320	38.965	1.354	40.126	-2.51%	-2.89%
			1745	1.344	38.846	1.368	40.087	-1.75%	-3.10%
5/26/2026	1750 Head	19.0	1750	1.349	38.822	1.371	40.079	-1.60%	-3.14%
			1770	1.374	38.718	1.383	40.047	-0.65%	-3.32%
			1790	1.399	38.614	1.394	40.016	0.36%	-3.50%

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5/28/2026	1750 Head	21.0	1700	1.283	38.665	1.343	40.145	-4.47%	-3.69%
			1705	1.288	38.636	1.345	40.141	-4.24%	-3.75%
			1710	1.293	38.607	1.348	40.136	-4.08%	-3.81%
			1720	1.303	38.548	1.354	40.126	-3.77%	-3.93%
			1745	1.328	38.401	1.368	40.087	-2.92%	-4.21%
			1750	1.332	38.368	1.371	40.079	-2.84%	-4.27%
			1770	1.354	38.248	1.383	40.047	-2.10%	-4.49%
			1790	1.375	38.119	1.394	40.016	-1.36%	-4.74%
6/13/2026	1750 Head	22.0	1700	1.305	39.420	1.343	40.145	-2.83%	-1.81%
			1705	1.309	39.401	1.345	40.141	-2.68%	-1.84%
			1710	1.313	39.380	1.348	40.136	-2.60%	-1.88%
			1720	1.322	39.339	1.354	40.126	-2.36%	-1.96%
			1745	1.346	39.244	1.368	40.087	-1.61%	-2.10%
			1750	1.351	39.223	1.371	40.079	-1.46%	-2.14%
			1770	1.372	39.127	1.383	40.047	-0.80%	-2.30%
			1790	1.393	39.032	1.394	40.016	-0.07%	-2.46%
5/20/2026	1900 Head	21.0	1850	1.394	38.382	1.400	40.000	-0.43%	-4.05%
			1860	1.404	38.332	1.400	40.000	0.29%	-4.17%
			1880	1.426	38.228	1.400	40.000	1.86%	-4.43%
			1900	1.448	38.140	1.400	40.000	3.43%	-4.65%
			1905	1.453	38.121	1.400	40.000	3.79%	-4.70%
			1910	1.458	38.100	1.400	40.000	4.14%	-4.75%
			1920	1.469	38.059	1.400	40.000	4.93%	-4.85%
			1850	1.375	40.058	1.400	40.000	-1.79%	0.14%
6/3/2026	1900 Head	21.8	1860	1.385	40.009	1.400	40.000	-1.07%	0.02%
			1880	1.407	39.911	1.400	40.000	0.50%	-0.22%
			1900	1.429	39.827	1.400	40.000	2.07%	-0.43%
			1905	1.435	39.809	1.400	40.000	2.50%	-0.48%
			1910	1.440	39.790	1.400	40.000	2.86%	-0.53%
			1920	1.451	39.751	1.400	40.000	3.64%	-0.62%
			1850	1.348	39.241	1.400	40.000	-3.71%	-1.90%
			1860	1.358	39.196	1.400	40.000	-3.00%	-2.01%
7/14/2026	1900 Head	20.0	1880	1.379	39.107	1.400	40.000	-1.50%	-2.23%
			1900	1.399	39.029	1.400	40.000	-0.07%	-2.43%
			1905	1.404	39.011	1.400	40.000	0.29%	-2.47%
			1910	1.410	38.994	1.400	40.000	0.71%	-2.52%
			1920	1.420	38.956	1.400	40.000	1.43%	-2.61%
			2300	1.648	40.847	1.670	39.500	-1.32%	3.41%
			2310	1.658	40.839	1.679	39.480	-1.25%	3.44%
			2320	1.667	40.835	1.687	39.460	-1.19%	3.48%
5/12/2026	2450 Head	19.0	2400	1.724	40.673	1.756	39.289	-1.82%	3.52%
			2450	1.770	40.602	1.800	39.200	-1.67%	3.58%
			2480	1.793	40.549	1.833	39.162	-2.18%	3.54%
			2500	1.809	40.502	1.855	39.136	-2.48%	3.49%
			2510	1.817	40.477	1.866	39.123	-2.63%	3.46%
			2535	1.841	40.422	1.893	39.092	-2.75%	3.40%
			2550	1.855	40.400	1.909	39.073	-2.83%	3.40%
			2560	1.864	40.390	1.920	39.060	-2.92%	3.41%
			2600	1.899	40.315	1.964	39.009	-3.31%	3.35%
			2650	1.943	40.191	2.018	38.945	-3.72%	3.20%
			2680	1.970	40.134	2.051	38.907	-3.95%	3.15%
			2700	1.991	40.092	2.073	38.882	-3.96%	3.11%

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5/15/2026	2450 Head	24.6	2300	1.701	39.416	1.670	39.500	1.86%	-0.21%
			2310	1.713	39.378	1.679	39.480	2.03%	-0.26%
			2320	1.725	39.341	1.687	39.460	2.25%	-0.30%
			2400	1.813	39.025	1.756	39.289	3.25%	-0.67%
			2450	1.871	38.841	1.800	39.200	3.94%	-0.92%
			2480	1.903	38.732	1.833	39.162	3.82%	-1.10%
			2500	1.926	38.650	1.855	39.136	3.83%	-1.24%
			2510	1.938	38.605	1.866	39.123	3.86%	-1.32%
			2535	1.969	38.509	1.893	39.092	4.01%	-1.49%
			2550	1.988	38.461	1.909	39.073	4.14%	-1.57%
			2560	2.001	38.430	1.920	39.060	4.22%	-1.61%
			2600	2.048	38.277	1.964	39.009	4.28%	-1.88%
			2650	2.109	38.067	2.018	38.945	4.51%	-2.25%
			2680	2.146	37.954	2.051	38.907	4.63%	-2.45%
			2700	2.169	37.864	2.073	38.882	4.63%	-2.62%
5/17/2026	2450 Head	20.7	2300	1.712	41.021	1.670	39.500	2.51%	3.85%
			2310	1.720	40.999	1.679	39.480	2.44%	3.85%
			2320	1.727	40.981	1.687	39.460	2.37%	3.85%
			2400	1.794	40.846	1.756	39.289	2.16%	3.96%
			2450	1.831	40.760	1.800	39.200	1.72%	3.98%
			2480	1.853	40.709	1.833	39.162	1.09%	3.95%
			2500	1.868	40.665	1.855	39.136	0.70%	3.91%
			2510	1.877	40.640	1.866	39.123	0.59%	3.88%
			2535	1.898	40.603	1.893	39.092	0.26%	3.87%
			2550	1.911	40.585	1.909	39.073	0.10%	3.87%
			2560	1.919	40.571	1.920	39.060	-0.05%	3.87%
			2600	1.950	40.489	1.964	39.009	-0.71%	3.79%
			2650	1.994	40.406	2.018	38.945	-1.19%	3.75%
			2680	2.021	40.342	2.051	38.907	-1.46%	3.69%
			2700	2.038	40.312	2.073	38.882	-1.69%	3.68%
5/18/2026	2450 Head	19.0	2300	1.670	40.571	1.670	39.500	0.00%	2.71%
			2310	1.679	40.568	1.679	39.480	0.00%	2.76%
			2320	1.687	40.564	1.687	39.460	0.00%	2.80%
			2400	1.741	40.379	1.756	39.289	-0.85%	2.77%
			2450	1.782	40.359	1.800	39.200	-1.00%	2.96%
			2480	1.802	40.286	1.833	39.162	-1.69%	2.87%
			2500	1.820	40.225	1.855	39.136	-1.89%	2.78%
			2510	1.829	40.202	1.866	39.123	-1.98%	2.76%
			2535	1.852	40.169	1.893	39.092	-2.17%	2.76%
			2550	1.865	40.159	1.909	39.073	-2.30%	2.78%
			2560	1.874	40.148	1.920	39.060	-2.40%	2.79%
			2600	1.909	40.057	1.964	39.009	-2.80%	2.69%
			2650	1.952	39.958	2.018	38.945	-3.27%	2.60%
			2680	1.976	39.909	2.051	38.907	-3.66%	2.58%
			2700	1.995	39.858	2.073	38.882	-3.76%	2.51%
5/19/2026	2450 Head	19.4	2300	1.591	40.005	1.670	39.500	-4.73%	1.28%
			2310	1.599	39.998	1.679	39.480	-4.76%	1.31%
			2320	1.605	39.991	1.687	39.460	-4.86%	1.35%

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5/26/2026	2450 Head	24.9	2300	1.686	39.220	1.670	39.500	0.96%	-0.71%
			2310	1.697	39.185	1.679	39.480	1.07%	-0.75%
			2320	1.708	39.148	1.687	39.460	1.24%	-0.79%
			2400	1.800	38.837	1.756	39.289	2.51%	-1.15%
			2450	1.857	38.650	1.800	39.200	3.17%	-1.40%
			2480	1.889	38.545	1.833	39.162	3.06%	-1.58%
			2500	1.913	38.468	1.855	39.136	3.13%	-1.71%
			2510	1.925	38.426	1.866	39.123	3.16%	-1.78%
			2535	1.956	38.313	1.893	39.092	3.33%	-1.99%
			2550	1.974	38.257	1.909	39.073	3.40%	-2.09%
			2560	1.986	38.229	1.920	39.060	3.44%	-2.13%
			2600	2.033	38.084	1.964	39.009	3.51%	-2.37%
			2650	2.091	37.846	2.018	38.945	3.62%	-2.82%
			2680	2.128	37.741	2.051	38.907	3.75%	-3.00%
6/1/2026	2450 Head	25.0	2700	2.152	37.662	2.073	38.882	3.81%	-3.14%
			2300	1.654	38.579	1.670	39.500	-0.96%	-2.33%
			2310	1.669	38.564	1.679	39.480	-0.60%	-2.32%
			2320	1.683	38.547	1.687	39.460	-0.24%	-2.31%
			2400	1.748	38.173	1.756	39.289	-0.46%	-2.84%
			2450	1.815	38.000	1.800	39.200	0.83%	-3.06%
			2480	1.844	37.888	1.833	39.162	0.60%	-3.25%
			2500	1.860	37.795	1.855	39.136	0.27%	-3.43%
			2510	1.869	37.747	1.866	39.123	0.16%	-3.52%
			2535	1.898	37.630	1.893	39.092	0.26%	-3.74%
			2550	1.919	37.573	1.909	39.073	0.52%	-3.84%
			2560	1.934	37.542	1.920	39.060	0.73%	-3.89%
			2600	1.988	37.424	1.964	39.009	1.22%	-4.06%
			2650	2.030	37.238	2.018	38.945	0.59%	-4.38%
5/21/2026	3600 Head	19.0	2680	2.067	37.094	2.051	38.907	0.78%	-4.66%
			2700	2.101	37.005	2.073	38.882	1.35%	-4.83%
			3300	2.750	38.118	2.708	38.157	1.55%	-0.10%
			3350	2.786	38.023	2.759	38.100	0.98%	-0.20%
			3450	2.861	37.886	2.861	37.986	0.00%	-0.26%
			3500	2.910	37.811	2.913	37.929	-0.10%	-0.31%
			3550	2.942	37.755	2.964	37.871	-0.74%	-0.31%
			3560	2.950	37.734	2.974	37.860	-0.81%	-0.33%
			3600	2.992	37.666	3.015	37.814	-0.76%	-0.39%
			3650	3.030	37.625	3.066	37.757	-1.17%	-0.35%
			3690	3.064	37.554	3.107	37.711	-1.38%	-0.42%
			3700	3.074	37.538	3.117	37.700	-1.38%	-0.43%
			3750	3.118	37.489	3.169	37.643	-1.61%	-0.41%
			3900	3.251	37.290	3.323	37.471	-2.17%	-0.48%
			3930	3.276	37.269	3.353	37.437	-2.30%	-0.45%
			4100	3.426	37.029	3.528	37.243	-2.89%	-0.57%
			4150	3.481	36.981	3.579	37.186	-2.74%	-0.55%

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5/26/2026	3600 Head	21.4	3300	2.720	38.178	2.708	38.157	0.44%	0.06%
			3350	2.757	38.133	2.759	38.100	-0.07%	0.09%
			3450	2.834	37.990	2.861	37.986	-0.94%	0.01%
			3500	2.873	37.907	2.913	37.929	-1.37%	-0.06%
			3550	2.913	37.866	2.964	37.871	-1.72%	-0.01%
			3560	2.921	37.847	2.974	37.860	-1.78%	-0.03%
			3600	2.953	37.770	3.015	37.814	-2.06%	-0.12%
			3650	2.994	37.731	3.066	37.757	-2.35%	-0.07%
			3690	3.022	37.663	3.107	37.711	-2.74%	-0.13%
			3700	3.030	37.645	3.117	37.700	-2.79%	-0.15%
			3750	3.077	37.595	3.169	37.643	-2.90%	-0.13%
			3900	3.200	37.432	3.323	37.471	-3.70%	-0.10%
			3930	3.229	37.379	3.353	37.437	-3.70%	-0.15%
			4100	3.382	37.207	3.528	37.243	-4.14%	-0.10%
			4150	3.437	37.143	3.579	37.186	-3.97%	-0.12%
07/18/2026	3600 Head	19.3	3300	2.686	40.018	2.708	38.157	-0.81%	4.88%
			3350	2.727	39.958	2.759	38.100	-1.16%	4.88%
			3450	2.823	39.820	2.861	37.986	-1.33%	4.83%
			3500	2.861	39.740	2.913	37.929	-1.79%	4.77%
			3550	2.913	39.689	2.964	37.871	-1.72%	4.80%
			3560	2.923	39.676	2.974	37.860	-1.71%	4.80%
			3600	2.956	39.617	3.015	37.814	-1.96%	4.77%
			3650	3.002	39.565	3.066	37.757	-2.09%	4.79%
			3690	3.037	39.504	3.107	37.711	-2.25%	4.75%
			3700	3.046	39.486	3.117	37.700	-2.28%	4.74%
			3750	3.093	39.428	3.169	37.643	-2.40%	4.74%
			3900	3.232	39.209	3.323	37.471	-2.74%	4.64%
			3930	3.265	39.134	3.353	37.437	-2.62%	4.53%
			4100	3.442	38.918	3.528	37.243	-2.44%	4.50%
			4150	3.492	38.809	3.579	37.186	-2.43%	4.36%

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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
5/8/2026	5200-5800 Head	19.0	5150	4.456	37.797	4.608	36.050	-3.30%	4.85%
			5160	4.466	37.784	4.618	36.040	-3.29%	4.84%
			5170	4.476	37.762	4.629	36.030	-3.31%	4.81%
			5180	4.488	37.728	4.635	36.009	-3.17%	4.77%
			5190	4.501	37.701	4.645	35.998	-3.10%	4.73%
			5200	4.514	37.683	4.655	35.986	-3.03%	4.72%
			5210	4.526	37.669	4.666	35.975	-3.00%	4.71%
			5220	4.535	37.653	4.676	35.963	-3.02%	4.70%
			5240	4.564	37.611	4.696	35.940	-2.81%	4.65%
			5250	4.577	37.596	4.706	35.929	-2.74%	4.64%
			5260	4.588	37.584	4.717	35.917	-2.73%	4.64%
			5270	4.597	37.573	4.727	35.906	-2.75%	4.64%
			5280	4.607	37.546	4.737	35.894	-2.74%	4.60%
			5290	4.618	37.519	4.748	35.883	-2.74%	4.56%
			5300	4.628	37.502	4.758	35.871	-2.73%	4.55%
			5310	4.638	37.484	4.768	35.860	-2.73%	4.53%
			5320	4.647	37.461	4.778	35.849	-2.74%	4.50%
			5500	4.867	37.109	4.963	35.643	-1.93%	4.11%
			5510	4.880	37.097	4.973	35.632	-1.87%	4.11%
			5520	4.892	37.083	4.983	35.620	-1.83%	4.11%
			5530	4.902	37.059	4.994	35.609	-1.84%	4.07%
			5540	4.910	37.034	5.004	35.597	-1.88%	4.04%
			5550	4.920	37.018	5.014	35.586	-1.87%	4.02%
			5560	4.931	37.007	5.024	35.574	-1.85%	4.03%
			5580	4.959	36.962	5.045	35.551	-1.70%	3.97%
			5600	4.988	36.898	5.065	35.529	-1.52%	3.85%
			5610	5.001	36.884	5.076	35.518	-1.48%	3.85%
			5620	5.013	36.865	5.086	35.506	-1.44%	3.83%
			5640	5.037	36.824	5.106	35.483	-1.35%	3.78%
			5660	5.060	36.797	5.127	35.460	-1.31%	3.77%
			5670	5.070	36.784	5.137	35.449	-1.30%	3.77%
			5680	5.081	36.767	5.147	35.437	-1.28%	3.75%
			5690	5.094	36.749	5.158	35.426	-1.24%	3.73%
			5700	5.107	36.726	5.168	35.414	-1.18%	3.70%
			5710	5.119	36.709	5.178	35.403	-1.14%	3.69%
			5720	5.130	36.693	5.188	35.391	-1.12%	3.68%
			5745	5.153	36.628	5.214	35.363	-1.17%	3.58%
			5750	5.159	36.612	5.219	35.357	-1.15%	3.55%
			5755	5.165	36.600	5.224	35.351	-1.13%	3.53%
			5765	5.176	36.587	5.234	35.340	-1.11%	3.53%
			5775	5.188	36.581	5.245	35.329	-1.09%	3.54%
			5785	5.202	36.566	5.255	35.317	-1.01%	3.54%
			5795	5.216	36.549	5.265	35.305	-0.93%	3.52%
			5800	5.223	36.537	5.270	35.300	-0.89%	3.50%
			5805	5.230	36.524	5.275	35.294	-0.85%	3.49%
			5825	5.251	36.483	5.296	35.271	-0.85%	3.44%
			5835	5.261	36.456	5.305	35.230	-0.83%	3.48%
			5845	5.271	36.432	5.315	35.210	-0.83%	3.47%
			5850	5.277	36.417	5.320	35.200	-0.81%	3.46%
			5855	5.282	36.405	5.325	35.197	-0.81%	3.43%
			5865	5.295	36.386	5.336	35.190	-0.77%	3.40%
			5875	5.307	36.368	5.347	35.183	-0.75%	3.37%
			5885	5.323	36.343	5.357	35.177	-0.63%	3.31%
			5905	5.353	36.306	5.379	35.163	-0.48%	3.25%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
5/12/2026	5200-5800 Head	19.0	5150	4.414	37.382	4.608	36.050	-4.21%	3.69%
			5160	4.425	37.370	4.618	36.040	-4.18%	3.69%
			5170	4.434	37.353	4.629	36.030	-4.21%	3.67%
			5180	4.446	37.321	4.635	36.009	-4.08%	3.64%
			5190	4.460	37.304	4.645	35.998	-3.98%	3.63%
			5200	4.472	37.291	4.655	35.986	-3.93%	3.63%
			5210	4.482	37.278	4.666	35.975	-3.94%	3.62%
			5220	4.489	37.266	4.676	35.963	-4.00%	3.62%
			5240	4.509	37.239	4.696	35.940	-3.98%	3.61%
			5250	4.518	37.232	4.706	35.929	-3.99%	3.63%
			5260	4.528	37.216	4.717	35.917	-4.01%	3.62%
			5270	4.537	37.197	4.727	35.906	-4.02%	3.60%
			5280	4.547	37.169	4.737	35.894	-4.01%	3.55%
			5290	4.561	37.139	4.748	35.883	-3.94%	3.50%
			5300	4.575	37.125	4.758	35.871	-3.85%	3.50%
			5310	4.584	37.115	4.768	35.860	-3.86%	3.50%
			5320	4.593	37.113	4.778	35.849	-3.87%	3.53%
			5500	4.769	36.790	4.963	35.643	-3.91%	3.22%
			5510	4.784	36.776	4.973	35.632	-3.80%	3.21%
			5520	4.796	36.755	4.983	35.620	-3.75%	3.19%
			5530	4.806	36.739	4.994	35.609	-3.76%	3.17%
			5540	4.816	36.725	5.004	35.597	-3.76%	3.17%
			5550	4.823	36.721	5.014	35.586	-3.81%	3.19%
			5560	4.831	36.717	5.024	35.574	-3.84%	3.21%
			5580	4.857	36.675	5.045	35.551	-3.73%	3.16%
			5600	4.885	36.608	5.065	35.529	-3.55%	3.04%
			5610	4.900	36.590	5.076	35.518	-3.47%	3.02%
			5620	4.913	36.573	5.086	35.506	-3.40%	3.01%
			5640	4.937	36.536	5.106	35.483	-3.31%	2.97%
			5660	4.955	36.510	5.127	35.460	-3.35%	2.96%
			5670	4.963	36.507	5.137	35.449	-3.39%	2.98%
			5680	4.973	36.496	5.147	35.437	-3.38%	2.99%
			5690	4.987	36.477	5.158	35.426	-3.32%	2.97%
			5700	5.003	36.451	5.168	35.414	-3.19%	2.93%
			5710	5.018	36.429	5.178	35.403	-3.09%	2.90%
			5720	5.029	36.406	5.188	35.391	-3.06%	2.87%
			5745	5.052	36.346	5.214	35.363	-3.11%	2.78%
			5750	5.057	36.338	5.219	35.357	-3.10%	2.77%
			5755	5.063	36.331	5.224	35.351	-3.08%	2.77%
			5765	5.074	36.321	5.234	35.340	-3.06%	2.78%
			5775	5.085	36.315	5.245	35.329	-3.05%	2.79%
			5785	5.098	36.302	5.255	35.317	-2.99%	2.79%
			5795	5.111	36.278	5.265	35.305	-2.92%	2.76%
			5800	5.119	36.265	5.270	35.300	-2.87%	2.73%
			5805	5.128	36.246	5.275	35.294	-2.79%	2.70%
			5825	5.156	36.192	5.296	35.271	-2.64%	2.61%
			5835	5.168	36.186	5.305	35.230	-2.58%	2.71%
			5845	5.180	36.169	5.315	35.210	-2.54%	2.72%
			5850	5.186	36.167	5.320	35.200	-2.52%	2.75%
			5855	5.191	36.163	5.325	35.197	-2.52%	2.74%
			5865	5.204	36.151	5.336	35.190	-2.47%	2.73%
			5875	5.214	36.130	5.347	35.183	-2.49%	2.69%
			5885	5.225	36.107	5.357	35.177	-2.46%	2.64%
			5905	5.246	36.065	5.379	35.163	-2.47%	2.57%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
5/12/2026	6000 Head	19.0	5935	5.231	34.409	5.411	35.143	-3.33%	-2.09%
			5970	5.268	34.355	5.448	35.120	-3.30%	-2.18%
			5985	5.284	34.339	5.464	35.110	-3.29%	-2.20%
			6000	5.301	34.315	5.480	35.100	-3.27%	-2.24%
			6025	5.332	34.259	5.510	35.070	-3.23%	-2.31%
			6065	5.379	34.155	5.557	35.022	-3.20%	-2.48%
			6075	5.392	34.140	5.569	35.010	-3.18%	-2.49%
			6085	5.405	34.125	5.580	34.998	-3.14%	-2.49%
			6185	5.519	33.910	5.698	34.878	-3.14%	-2.78%
			6275	5.639	33.762	5.805	34.770	-2.86%	-2.90%
			6285	5.645	33.745	5.816	34.758	-2.94%	-2.91%
			6305	5.660	33.705	5.840	34.734	-3.08%	-2.96%
			6345	5.726	33.639	5.887	34.686	-2.73%	-3.02%
			6475	5.882	33.407	6.041	34.530	-2.63%	-3.25%
			6485	5.895	33.393	6.052	34.518	-2.59%	-3.26%
			6500	5.911	33.375	6.070	34.500	-2.62%	-3.26%
			6505	5.915	33.369	6.076	34.494	-2.65%	-3.26%
			6545	5.957	33.304	6.122	34.446	-2.70%	-3.32%
			6665	6.106	33.084	6.265	34.302	-2.54%	-3.55%
			6675	6.117	33.058	6.273	34.290	-2.49%	-3.59%
			6685	6.128	33.035	6.285	34.278	-2.50%	-3.63%
			6715	6.155	33.003	6.319	34.242	-2.60%	-3.62%
			6785	6.243	32.887	6.400	34.158	-2.45%	-3.72%
			6825	6.282	32.831	6.447	34.110	-2.56%	-3.75%
			6985	6.462	32.569	6.633	33.918	-2.58%	-3.98%
			6995	6.474	32.549	6.644	33.906	-2.56%	-4.00%
			7000	6.481	32.544	6.650	33.900	-2.54%	-4.00%
			7005	6.489	32.533	6.656	33.894	-2.51%	-4.02%
			7025	6.516	32.500	6.680	33.870	-2.46%	-4.04%
			7500	7.042	31.683	7.240	33.300	-2.73%	-4.86%

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

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)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	07/13/2026	23.2	24.9	1.00	1004	7782	1646	0.554	0.585	0.554	-5.30%				
AM6	750	HEAD	05/17/2026	22.3	24.0	0.20	1097	7308	501	1.700	8.270	8.500	2.78%				
AM6	750	HEAD	05/19/2026	22.1	23.7	0.20	1097	7308	501	1.610	8.270	8.050	-2.66%				
AM6	750	HEAD	05/21/2026	20.9	24.2	0.20	1097	7308	501	1.630	8.270	8.150	-1.45%				
AM6	750	HEAD	05/28/2026	20.2	23.1	0.20	1094	7308	501	1.710	8.680	8.550	-1.50%				
AM6	750	HEAD	05/28/2026	21.8	23.0	0.20	1094	7308	501	1.820	8.680	9.100	4.84%				
AM6	750	HEAD	06/10/2026	19.2	23.0	0.20	1094	7308	501	1.820	8.680	9.100	4.84%				
AM12	835	HEAD	05/15/2026	20.0	20.0	0.20	4d108	7639	1684	1.910	9.400	9.550	1.60%				
AM12	835	HEAD	05/21/2026	21.1	20.0	0.20	4d040	7639	1684	1.850	9.590	9.250	-3.55%				
AM10	835	HEAD	05/22/2026	21.2	23.4	0.20	4d040	7421	604	1.920	9.590	9.600	0.10%				
AM12	835	HEAD	05/28/2026	21.5	19.7	0.20	4d040	7639	1684	1.950	9.590	9.750	1.67%				
AM10	835	HEAD	06/18/2026	21.2	23.0	0.20	4d040	7421	604	1.980	9.590	9.900	3.23%				
AM14	1750	HEAD	05/19/2026	21.8	20.0	0.10	1040	7782	1646	3.670	36.300	36.700	1.10%				
AM13	1750	HEAD	05/26/2026	21.7	19.0	0.10	1040	7499	1465	3.600	36.300	36.000	-0.83%				
AM13	1750	HEAD	05/28/2026	22.7	20.0	0.10	1040	7499	1465	3.830	36.300	38.300	5.51%				
AM15	1750	HEAD	06/13/2026	22.9	22.0	0.10	1040	3746	1237	3.630	36.300	36.300	0.00%				
AM13	1900	HEAD	05/20/2026	22.3	21.0	0.10	5d030	7499	1465	3.860	39.700	38.600	-2.77%				
AM13	1900	HEAD	06/03/2026	21.3	20.1	0.10	5d181	7499	1465	4.260	39.900	42.600	6.77%				
AM13	1900	HEAD	07/14/2026	20.3	22.4	0.10	5d181	7499	1465	4.150	39.900	41.500	4.01%				
AM10	2300	HEAD	05/17/2026	19.1	19.7	0.10	1038	7421	604	5.170	49.100	51.700	5.30%				
AM10	2300	HEAD	05/19/2026	22.3	20.4	0.10	1064	7421	604	5.100	49.300	51.000	3.45%				
AM11	2450	HEAD	05/18/2026	20.0	19.4	0.10	855	7427	1402	5.490	53.300	54.900	3.00%				
AM16	2450	HEAD	05/26/2026	24.0	24.0	0.10	855	7551	1323	5.460	53.300	54.600	2.44%				
AM7	2450	HEAD	06/01/2026	21.6	24.9	0.10	921	3837	793	5.590	52.200	55.900	7.09%				
AM11	2600	HEAD	05/12/2026	20.8	19.4	0.10	1069	7427	1402	5.890	56.200	58.900	4.80%				
AM7	2600	HEAD	05/15/2026	20.3	23.2	0.10	1069	3837	793	5.620	56.200	56.200	0.00%				
AM11	2600	HEAD	05/18/2026	20.0	19.4	0.10	1068	7427	1402	5.830	56.100	58.300	3.92%				
AM7	2600	HEAD	06/01/2026	21.6	24.9	0.10	1069	3837	793	5.730	56.200	57.300	1.96%				
AM4	3500	HEAD	05/21/2026	24.7	20.7	0.10	1055	7638	467	6.310	65.100	63.100	-3.07%				
AM4	3500	HEAD	05/26/2026	22.6	21.5	0.10	1055	7638	467	6.490	65.100	64.900	-0.31%				
AM3	3500	HEAD	07/18/2026	21.1	20.0	0.10	1055	7532	1582	6.290	65.100	62.900	-3.38%				
AM4	3700	HEAD	05/21/2026	24.7	20.7	0.10	1097	7638	467	6.330	67.900	63.300	-6.77%				
AM4	3700	HEAD	05/26/2026	22.6	21.5	0.10	1097	7638	467	6.530	67.900	65.300	-3.83%				
AM3	3700	HEAD	07/18/2026	21.1	20.0	0.10	1097	7532	1582	6.870	67.900	68.700	1.18%				
AM4	3900	HEAD	05/26/2026	22.6	21.5	0.10	1062	7638	467	6.930	68.700	69.300	0.87%				
AM8	5250	HEAD	05/08/2026	22.0	19.2	0.05	1123	7490	1644	4.190	80.200	83.800	4.49%				
AM9	5250	HEAD	05/12/2026	19.0	19.0	0.05	1123	7668	1681	4.060	80.200	81.200	1.25%				
AM8	5600	HEAD	05/08/2026	22.0	19.2	0.05	1123	7490	1644	4.200	82.100	84.000	2.31%				
AM9	5600	HEAD	05/12/2026	19.0	19.0	0.05	1123	7668	1681	4.150	82.100	83.000	1.10%				
AM8	5750	HEAD	05/08/2026	22.0	19.2	0.05	1123	7490	1644	4.100	78.500	82.000	4.46%				
AM9	5750	HEAD	05/12/2026	19.0	19.0	0.05	1123	7668	1681	4.070	78.500	81.400	3.69%				
AM8	5850	HEAD	05/08/2026	22.0	19.2	0.05	1123	7490	1644	4.060	82.300	81.200	-1.34%				
AM9	5850	HEAD	05/12/2026	19.0	19.0	0.05	1123	7668	1681	4.020	82.300	80.400	-2.31%				
AM2	6500	HEAD	05/12/2026	22.9	20.6	0.025	1019	7420	1408	7.450	289.000	298.000	3.11%	33.9	1300	1356	4.31%

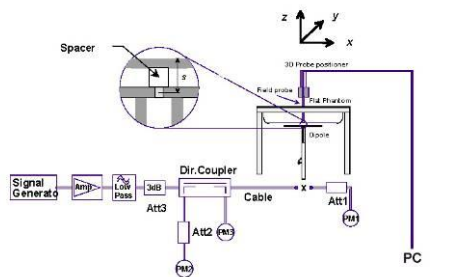


Figure 9-1
System Verification Setup Diagram



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.

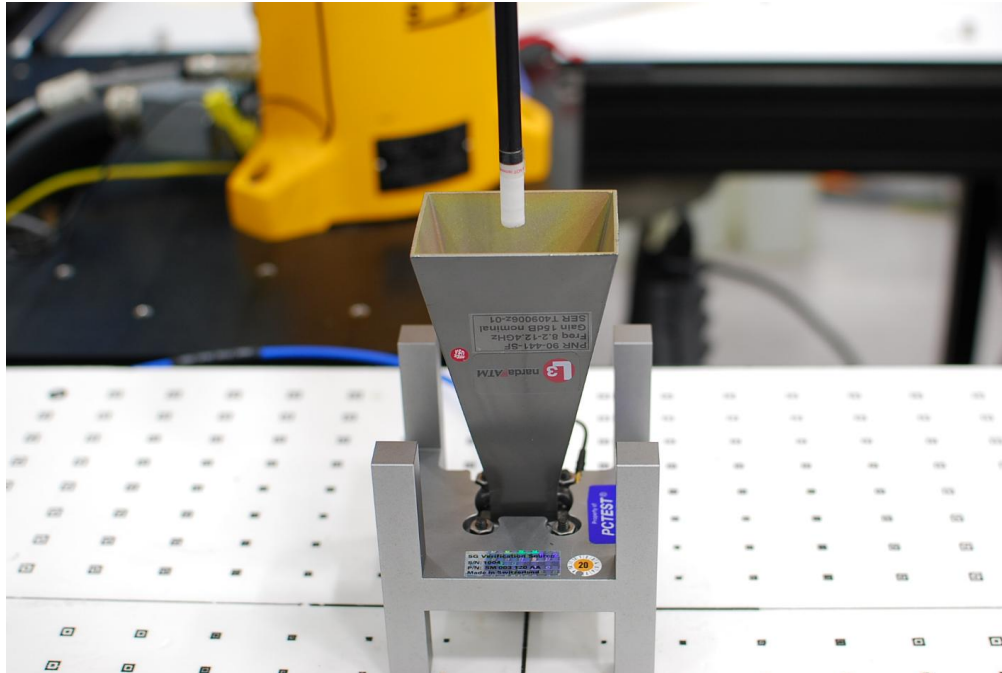


Figure 9-3
System Verification Setup Photo

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	05/12/2026	1006	1403	9364	93.9	57.30	55.30	0.15	57.40	55.80	0.12
AM5	10	06/22/2026	1006	1403	9487	93.9	48.30	55.30	-0.59	48.50	55.80	-0.61

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 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 850	RMC	3b	TCF03	1:1	-0.03	826.40	4132	21.60	20.63	Back	5	0.801	0.425	1.250	1.001	0.531	0.626	20.90	0.852	0.533	
Body	UMTS 850	RMC	3b	TCF03	1:1	-0.02	836.60	4183	21.60	20.66	Back	5	0.826	0.438	1.242	1.026	0.544	0.641	20.90	0.873	0.546	
Body	UMTS 850	RMC	3b	TCF03	1:1	-0.02	846.60	4233	21.60	20.67	Back	5	0.939	0.487	1.239	1.163	0.603	0.727	20.90	0.990	0.619	A1
Body	UMTS 850	RMC	3b	TCF03	1:1	-0.04	846.60	4233	21.60	20.67	Top	5	0.808	0.293	1.239	0.753	0.363	0.471	20.90	0.641	0.401	
Body	UMTS 850	RMC	3b	TCF03	1:1	-0.03	846.60	4233	21.60	20.67	Bottom	5	0.014	0.009	1.239	0.017	0.011	0.011	20.90	0.014	0.009	
Body	UMTS 850	RMC	3b	TCF03	1:1	0.05	846.60	4233	21.60	20.67	Right	5	0.083	0.049	1.239	0.103	0.061	0.064	20.90	0.088	0.055	
Body	UMTS 850	RMC	3b	TCF03	1:1	0.02	846.60	4233	21.60	20.67	Left	5	0.025	0.017	1.239	0.031	0.021	0.019	20.90	0.026	0.016	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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]	Exposure Ratio (1g SAR)	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	UMTS 850	RMC	4	9W3JR	1:1	-0.01	826.40	4132	24.70	23.47	Back	5	0.731	0.434	1.327	0.970	0.576	0.606	23.90	0.807	0.504
Body	UMTS 850	RMC	4	9W3JR	1:1	0.00	836.60	4183	24.70	23.45	Back	5	0.785	0.462	1.334	1.047	0.616	0.654	23.90	0.871	0.544
Body	UMTS 850	RMC	4	9W3JR	1:1	-0.01	846.60	4233	24.70	23.48	Back	5	0.814	0.476	1.324	1.078	0.630	0.674	23.90	0.897	0.561
Body	UMTS 850	RMC	4	9W3JR	1:1	-0.05	826.40	4132	24.70	23.47	Top	5	0.887	0.522	1.327	1.177	0.693	0.736	23.90	0.979	0.612
Body	UMTS 850	RMC	4	9W3JR	1:1	0.01	836.60	4183	24.70	23.45	Top	5	0.888	0.522	1.334	1.185	0.696	0.741	23.90	0.986	0.616
Body	UMTS 850	RMC	4	9W3JR	1:1	-0.08	846.60	4233	24.70	23.48	Top	5	0.796	0.446	1.324	1.054	0.591	0.659	23.90	0.877	0.548
Body	UMTS 850	RMC	4	9W3JR	1:1	0.05	846.60	4233	24.70	23.48	Bottom	5	0.081	0.054	1.324	0.107	0.071	0.067	23.90	0.089	0.056
Body	UMTS 850	RMC	4	9W3JR	1:1	0.04	846.60	4233	24.70	23.48	Right	5	0.090	0.059	1.324	0.119	0.078	0.074	23.90	0.099	0.062
Body	UMTS 850	RMC	4	9W3JR	1:1	-0.03	846.60	4233	24.70	23.48	Left	5	0.297	0.171	1.324	0.393	0.226	0.246	23.90	0.327	0.204
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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10.2 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	R27CD	1:1	0.00	1712.40	1312	19.90	19.38	Back	5	0.939	0.433	1.127	1.058	0.488	0.661	19.10	0.880	0.550	
Body	UMTS 1750	RMC	1b	R27CD	1:1	-0.02	1732.40	1412	19.90	19.27	Back	5	0.973	0.448	1.156	1.125	0.518	0.703	19.10	0.936	0.585	
Body	UMTS 1750	RMC	1b	R27CD	1:1	0.00	1752.60	1513	19.90	19.28	Back	5	1.030	0.470	1.153	1.188	0.542	0.743	19.10	0.988	0.618	
Body	UMTS 1750	RMC	1b	R27CD	1:1	0.07	1712.40	1312	19.90	19.38	Top	5	0.011	0.006	1.127	0.012	0.007	0.008	19.10	0.010	0.006	
Body	UMTS 1750	RMC	1b	R27CD	1:1	-0.01	1712.40	1312	19.90	19.38	Bottom	5	0.804	0.362	1.127	0.906	0.408	0.566	19.10	0.754	0.471	
Body	UMTS 1750	RMC	1b	R27CD	1:1	-0.01	1732.40	1412	19.90	19.27	Bottom	5	0.849	0.382	1.156	0.981	0.442	0.613	19.10	0.816	0.510	
Body	UMTS 1750	RMC	1b	R27CD	1:1	-0.05	1752.60	1513	19.90	19.28	Bottom	5	0.871	0.390	1.153	1.004	0.450	0.628	19.10	0.835	0.522	
Body	UMTS 1750	RMC	1b	R27CD	1:1	0.03	1712.40	1312	19.90	19.38	Right	5	0.022	0.013	1.127	0.025	0.015	0.016	19.10	0.021	0.013	
Body	UMTS 1750	RMC	1b	R27CD	1:1	-0.05	1712.40	1312	19.90	19.38	Left	5	0.041	0.024	1.127	0.046	0.027	0.029	19.10	0.038	0.024	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-4 Antenna 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1750	RMC	2	H4CG6	1:1	0.01	1712.40	1312	25.70	24.98	Back	5	0.947	0.580	1.180	1.117	0.684	0.698	25.00	0.951	0.594	
Body	UMTS 1750	RMC	2	H4CG6	1:1	-0.06	1732.40	1412	25.70	24.95	Back	5	0.986	0.597	1.189	1.172	0.710	0.733	25.00	0.989	0.624	
Body	UMTS 1750	RMC	2	H4CG6	1:1	0.00	1752.60	1513	25.70	24.99	Back	5	0.967	0.572	1.178	1.139	0.674	0.712	25.00	0.969	0.606	
Body	UMTS 1750	RMC	2	H4CG6	1:1	0.08	1752.60	1513	25.70	24.99	Top	5	0.043	0.024	1.178	0.051	0.028	0.032	25.00	0.043	0.027	
Body	UMTS 1750	RMC	2	H4CG6	1:1	0.02	1712.40	1312	25.70	24.98	Bottom	5	0.843	0.392	1.180	0.995	0.463	0.622	25.00	0.847	0.529	
Body	UMTS 1750	RMC	2	H4CG6	1:1	-0.07	1732.40	1412	25.70	24.95	Bottom	5	0.894	0.410	1.189	1.063	0.487	0.664	25.00	0.905	0.566	
Body	UMTS 1750	RMC	2	H4CG6	1:1	-0.03	1752.60	1513	25.70	24.99	Bottom	5	0.843	0.381	1.178	0.993	0.450	0.621	25.00	0.845	0.528	
Body	UMTS 1750	RMC	2	H4CG6	1:1	-0.10	1752.60	1513	25.70	24.99	Right	5	0.153	0.083	1.178	0.180	0.098	0.113	25.00	0.153	0.096	
Body	UMTS 1750	RMC	2	H4CG6	1:1	-0.15	1752.60	1513	25.70	24.99	Left	5	0.033	0.019	1.178	0.039	0.022	0.024	25.00	0.033	0.021	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-5 Antenna 3a

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	3a	R27CD	1:1	-0.04	1712.40	1312	21.80	21.55	Back	5	0.934	0.486	1.059	0.989	0.515	0.618	21.10	0.842	0.526	
Body	UMTS 1750	RMC	3a	R27CD	1:1	-0.02	1732.40	1412	21.80	21.39	Back	5	0.977	0.512	1.099	1.074	0.563	0.671	21.10	0.914	0.571	
Body	UMTS 1750	RMC	3a	R27CD	1:1	-0.01	1752.60	1513	21.80	21.40	Back	5	1.070	0.561	1.096	1.173	0.615	0.733	21.10	0.998	0.624	A2
Body	UMTS 1750	RMC	3a	R27CD	1:1	-0.02	1712.40	1312	21.80	21.55	Top	5	0.312	0.137	1.059	0.330	0.145	0.206	21.10	0.381	0.176	
Body	UMTS 1750	RMC	3a	R27CD	1:1	-0.16	1712.40	1312	21.80	21.55	Bottom	5	0.030	0.017	1.059	0.032	0.018	0.020	21.10	0.027	0.017	
Body	UMTS 1750	RMC	3a	R27CD	1:1	-0.03	1712.40	1312	21.80	21.55	Right	5	0.597	0.310	1.059	0.612	0.328	0.395	21.10	0.538	0.336	
Body	UMTS 1750	RMC	3a	R27CD	1:1	0.03	1712.40	1312	21.80	21.55	Left	5	0.009	0.004	1.059	0.010	0.004	0.006	21.10	0.009	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 10-6 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)	Simultaneous Tune-up Power	Simultaneous Reported 1g [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	UMTS 1750	RMC	4	R27CD	1:1	0.00	1712.40	1312	23.90	23.22	Back	5	0.941	0.561	1.169	1.100	0.656	0.688	23.10	0.915	0.572	
Body	UMTS 1750	RMC	4	R27CD	1:1	-0.05	1732.40	1412	23.90	23.26	Back	5	1.020	0.589	1.159	1.182	0.683	0.739	23.10	0.983	0.614	
Body	UMTS 1750	RMC	4	R27CD	1:1	-0.02	1752.60	1513	23.90	23.33	Back	5	0.928	0.533	1.140	1.058	0.608	0.661	23.10	0.880	0.550	
Body	UMTS 1750	RMC	4	R27CD	1:1	0.09	1752.60	1513	23.90	23.33	Top	5	0.364	0.206	1.140	0.415	0.235	0.259	23.10	0.345	0.216	
Body	UMTS 1750	RMC	4	R27CD	1:1	0.07	1752.60	1513	23.90	23.33	Bottom	5	0.005	0.002	1.140	0.006	0.002	0.004	23.10	0.005	0.003	
Body	UMTS 1750	RMC	4	R27CD	1:1	0.07	1752.60	1513	23.90	23.33	Right	5	0.014	0.009	1.140	0.016	0.010	0.010	23.10	0.013	0.008	
Body	UMTS 1750	RMC	4	R27CD	1:1	0.04	1752.60	1513	23.90	23.33	Left	5	0.415	0.228	1.140	0.473	0.260	0.296	23.10	0.393	0.246	
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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10.3 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	R27CD	1:1	-0.01	1852.40	9262	18.80	18.35	Back	5	0.856	0.397	1.109	0.949	0.440	0.593	18.00	0.789	0.493	
Body	UMTS 1900	RMC	1b	R27CD	1:1	0.03	1880.00	9400	18.80	18.34	Back	5	0.937	0.434	1.112	1.042	0.483	0.651	18.00	0.967	0.542	
Body	UMTS 1900	RMC	1b	R27CD	1:1	-0.02	1907.60	9538	18.80	18.28	Back	5	0.962	0.444	1.127	1.084	0.500	0.678	18.00	0.902	0.564	
Body	UMTS 1900	RMC	1b	R27CD	1:1	-0.06	1852.40	9262	18.80	18.35	Top	5	0.018	0.009	1.109	0.020	0.010	0.013	18.00	0.017	0.011	
Body	UMTS 1900	RMC	1b	R27CD	1:1	-0.03	1852.40	9262	18.80	18.35	Bottom	5	0.847	0.379	1.109	0.939	0.420	0.587	18.00	0.781	0.488	
Body	UMTS 1900	RMC	1b	R27CD	1:1	0.00	1880.00	9400	18.80	18.34	Bottom	5	0.925	0.414	1.112	1.029	0.460	0.643	18.00	0.856	0.535	
Body	UMTS 1900	RMC	1b	R27CD	1:1	0.02	1907.60	9538	18.80	18.28	Bottom	5	1.050	0.471	1.127	1.183	0.531	0.739	18.00	0.984	0.615	A3
Body	UMTS 1900	RMC	1b	R27CD	1:1	-0.15	1852.40	9262	18.80	18.35	Right	5	0.022	0.013	1.109	0.024	0.014	0.015	18.00	0.020	0.013	
Body	UMTS 1900	RMC	1b	R27CD	1:1	0.03	1852.40	9262	18.80	18.35	Left	5	0.048	0.026	1.109	0.053	0.029	0.033	18.00	0.044	0.028	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

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	N7RJS	1:1	-0.01	1852.40	9262	19.20	18.30	Back	5	0.705	0.354	1.230	0.867	0.435	0.542	18.50	0.738	0.461	
Body	UMTS 1900	RMC	2	N7RJS	1:1	0.00	1880.00	9400	19.20	18.25	Back	5	0.603	0.301	1.245	0.748	0.375	0.468	18.50	0.637	0.398	
Body	UMTS 1900	RMC	2	N7RJS	1:1	0.00	1907.60	9538	19.20	18.11	Back	5	0.504	0.251	1.285	0.648	0.323	0.405	18.50	0.552	0.345	
Body	UMTS 1900	RMC	2	N7RJS	1:1	-0.03	1852.40	9262	19.20	18.30	Top	5	0.012	0.007	1.230	0.015	0.009	0.009	18.50	0.013	0.008	
Body	UMTS 1900	RMC	2	N7RJS	1:1	-0.01	1852.40	9262	19.20	18.30	Bottom	5	0.954	0.439	1.230	1.173	0.540	0.733	18.50	0.998	0.624	
Body	UMTS 1900	RMC	2	N7RJS	1:1	-0.01	1880.00	9400	19.20	18.25	Bottom	5	0.803	0.369	1.245	1.000	0.459	0.625	18.50	0.851	0.532	
Body	UMTS 1900	RMC	2	N7RJS	1:1	-0.02	1907.60	9538	19.20	18.11	Bottom	5	0.642	0.294	1.285	0.825	0.378	0.516	18.50	0.702	0.439	
Body	UMTS 1900	RMC	2	N7RJS	1:1	-0.02	1852.40	9262	19.20	18.30	Right	5	0.268	0.137	1.230	0.330	0.169	0.206	18.50	0.281	0.176	
Body	UMTS 1900	RMC	2	N7RJS	1:1	0.06	1852.40	9262	19.20	18.30	Left	5	0.002	0.000	1.230	0.002	0.000	0.001	18.50	0.002	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 10-9 Antenna 3a

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	3a	R27CD	1:1	-0.01	1852.40	9262	21.90	21.05	Back	5	0.896	0.480	1.216	1.090	0.584	0.681	21.20	0.928	0.580	
Body	UMTS 1900	RMC	3a	R27CD	1:1	-0.02	1880.00	9400	21.90	21.04	Back	5	0.930	0.497	1.219	1.134	0.606	0.709	21.20	0.965	0.603	
Body	UMTS 1900	RMC	3a	R27CD	1:1	-0.02	1907.60	9538	21.90	21.02	Back	5	0.953	0.509	1.225	1.167	0.624	0.729	21.20	0.993	0.621	
Body	UMTS 1900	RMC	3a	R27CD	1:1	0.07	1852.40	9262	21.90	21.05	Top	5	0.513	0.222	1.216	0.624	0.270	0.390	21.20	0.531	0.332	
Body	UMTS 1900	RMC	3a	R27CD	1:1	0.18	1852.40	9262	21.90	21.05	Bottom	5	0.072	0.038	1.216	0.088	0.046	0.055	21.20	0.075	0.047	
Body	UMTS 1900	RMC	3a	R27CD	1:1	-0.01	1852.40	9262	21.90	21.05	Right	5	0.634	0.333	1.216	0.711	0.405	0.482	21.20	0.656	0.410	
Body	UMTS 1900	RMC	3a	R27CD	1:1	0.03	1852.40	9262	21.90	21.05	Left	5	0.011	0.006	1.216	0.013	0.007	0.008	21.20	0.011	0.007	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-10 Antenna 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	GXYJJ	1:1	-0.01	1852.40	9262	17.50	16.52	Back	5	0.629	0.317	1.253	0.788	0.397	0.493	16.80	0.671	0.419	
Body	UMTS 1900	RMC	4	GXYJJ	1:1	0.00	1852.40	9262	17.50	16.52	Top	5	0.845	0.384	1.253	1.059	0.481	0.662	16.80	0.901	0.563	
Body	UMTS 1900	RMC	4	GXYJJ	1:1	0.01	1880.00	9400	17.50	16.30	Top	5	0.991	0.404	1.318	1.174	0.532	0.734	16.80	0.999	0.624	
Body	UMTS 1900	RMC	4	GXYJJ	1:1	-0.01	1907.60	9538	17.50	16.39	Top	5	0.824	0.373	1.291	1.064	0.482	0.665	16.80	0.906	0.566	
Body	UMTS 1900	RMC	4	GXYJJ	1:1	0.06	1852.40	9262	17.50	16.52	Bottom	5	0.038	0.009	1.253	0.023	0.011	0.014	16.80	0.020	0.013	
Body	UMTS 1900	RMC	4	GXYJJ	1:1	0.06	1852.40	9262	17.50	16.52	Right	5	0.003	0.000	1.253	0.004	0.000	0.003	16.80	0.003	0.002	
Body	UMTS 1900	RMC	4	GXYJJ	1:1	0.01	1852.40	9262	17.50	16.52	Left	5	0.267	0.137	1.253	0.335	0.172	0.209	16.80	0.285	0.178	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.4 LTE Band 71 Standalone SAR

Table 10-11 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.05	680.50	113297	0.0	21.70	21.11	1	0	Back	5	0.912	0.480	1.146	1.045	0.950	0.653	21.00	0.889	0.556	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	0.02	680.50	113297	0.0	21.70	21.15	50	0	Back	5	0.974	0.505	1.135	1.105	0.573	0.691	21.00	0.941	0.588	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.05	680.50	113297	0.0	21.70	21.10	100	0	Back	5	1.020	0.548	1.148	1.171	0.629	0.732	21.00	0.997	0.623	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.01	680.50	113297	0.0	21.70	21.11	1	0	Top	5	0.687	0.329	1.146	0.764	0.377	0.478	21.00	0.650	0.406	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	0.02	680.50	113297	0.0	21.70	21.15	50	0	Top	5	0.716	0.399	1.135	0.813	0.407	0.506	21.00	0.692	0.443	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.00	680.50	113297	0.0	21.70	21.10	100	0	Top	5	0.774	0.389	1.148	0.831	0.421	0.539	21.00	0.707	0.442	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.12	680.50	113297	0.0	21.70	21.11	1	0	Bottom	5	0.014	0.023	1.146	0.039	0.026	0.024	21.00	0.033	0.021	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	0.00	680.50	113297	0.0	21.70	21.15	50	0	Bottom	5	0.019	0.023	1.135	0.017	0.026	0.023	21.00	0.031	0.019	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.01	680.50	113297	0.0	21.70	21.11	1	0	Right	5	0.078	0.067	1.146	0.080	0.064	0.096	21.00	0.076	0.048	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	0.02	680.50	113297	0.0	21.70	21.15	50	0	Right	5	0.075	0.066	1.135	0.085	0.051	0.093	21.00	0.072	0.045	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	0.08	680.50	113297	0.0	21.70	21.11	1	0	Left	5	0.043	0.026	1.146	0.047	0.030	0.029	21.00	0.040	0.027	
Body	LTE Band 71	20	QPSK	3b	N79J6	1:1	-0.16	680.50	113297	0.0	21.70	21.15	50	0	Left	5	0.043	0.027	1.135	0.049	0.031	0.031	21.00	0.042	0.026	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																										

Table 10-12 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.01	680.50	113297	0.0	23.50	23.10	1	50	Back	5	1.080	0.993	1.096	1.184	0.648	0.740	22.70	0.985	0.616	A4
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	0.00	680.50	113297	0.0	23.50	23.17	50	50	Back	5	0.911	0.498	1.079	0.983	0.537	0.634	22.70	0.818	0.511	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.01	680.50	113297	0.0	23.50	23.09	100	0	Back	5	0.934	0.512	1.099	1.036	0.563	0.641	22.70	0.853	0.533	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.05	680.50	113297	0.0	23.50	23.10	1	50	Top	5	0.700	0.375	1.096	0.767	0.411	0.479	22.70	0.638	0.399	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.08	680.50	113297	0.0	23.50	23.17	50	50	Top	5	0.724	0.387	1.079	0.781	0.418	0.488	22.70	0.650	0.406	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.02	680.50	113297	0.0	23.50	23.10	1	50	Bottom	5	0.031	0.044	1.096	0.044	0.028	0.028	22.70	0.037	0.023	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.17	680.50	113297	0.0	23.50	23.17	50	50	Bottom	5	0.048	0.051	1.079	0.052	0.036	0.051	22.70	0.043	0.027	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.20	680.50	113297	0.0	23.50	23.10	1	50	Right	5	0.063	0.038	1.096	0.067	0.042	0.042	22.70	0.056	0.035	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.00	680.50	113297	0.0	23.50	23.17	50	50	Right	5	0.043	0.046	1.079	0.048	0.043	0.043	22.70	0.057	0.036	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.06	680.50	113297	0.0	23.50	23.10	1	50	Left	5	0.213	0.113	1.096	0.233	0.122	0.146	22.70	0.194	0.121	
Body	LTE Band 71	20	QPSK	4	TCF03	1:1	-0.03	680.50	113297	0.0	23.50	23.17	50	50	Left	5	0.210	0.112	1.079	0.227	0.121	0.142	22.70	0.189	0.118	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																										

10.5 LTE Band 12 Standalone SAR

Table 10-13 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	0.08	707.50	23095	0.0	21.90	20.77	1	25	Back	5	0.802	0.484	1.285	1.120	0.624	0.731	21.10	0.973	0.608	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	-0.04	707.50	23095	0.0	21.90	20.75	25	25	Back	5	0.906	0.484	1.303	1.181	0.631	0.738	21.10	0.982	0.614	A5
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	0.02	707.50	23095	0.0	21.90	20.74	50	0	Back	5	0.845	0.453	1.306	1.104	0.592	0.690	21.10	0.918	0.574	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	0.00	707.50	23095	0.0	21.90	20.77	1	25	Top	5	0.509	0.274	1.297	0.650	0.355	0.413	21.10	0.449	0.341	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	-0.03	707.50	23095	0.0	21.90	20.75	25	25	Top	5	0.533	0.283	1.303	0.694	0.369	0.434	21.10	0.577	0.361	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	0.09	707.50	23095	0.0	21.90	20.77	1	25	Bottom	5	0.030	0.020	1.297	0.039	0.026	0.024	21.10	0.032	0.020	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	-0.05	707.50	23095	0.0	21.90	20.75	35	25	Bottom	5	0.018	0.019	1.303	0.036	0.025	0.023	21.10	0.030	0.019	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	-0.03	707.50	23095	0.0	21.90	20.77	1	25	Right	5	0.104	0.062	1.297	0.135	0.080	0.084	21.10	0.112	0.070	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	0.00	707.50	23095	0.0	21.90	20.75	25	25	Right	5	0.095	0.057	1.303	0.124	0.074	0.078	21.10	0.103	0.064	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	-0.06	707.50	23095	0.0	21.90	20.77	1	25	Left	5	0.266	0.028	1.297	0.073	0.049	0.046	21.10	0.061	0.038	
Body	LTE Band 12	10	QPSK	3b	N79J6	1:1	-0.07	707.50	23095	0.0	21.90	20.75	25	25	Left	5	0.048	0.032	1.303	0.063	0.042	0.039	21.10	0.052	0.033	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																										

Table 10-14 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.04	707.50	23095	0.0	23.50	22.41	1	25	Back	5	0.896	0.484	1.285	1.151	0.622	0.719	22.80	0.980	0.613	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.01	707.50	23095	0.0	23.50	22.46	25	25	Back	5	0.890	0.480	1.271	1.131	0.610	0.707	22.80	0.963	0.602	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.01	707.50	23095	0.0	23.50	22.40	50	0	Back	5	0.904	0.488	1.288	1.144	0.629	0.728	22.80	0.991	0.619	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.04	707.50	23095	0.0	23.50	22.41	1	25	Top	5	0.620	0.301	1.285	0.797	0.387	0.498	22.80	0.678	0.424	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	0.04	707.50	23095	0.0	23.50	22.46	25	25	Top	5	0.604	0.289	1.271	0.768	0.387	0.480	22.80	0.654	0.409	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.12	707.50	23095	0.0	23.50	22.41	1	25	Bottom	5	0.024	0.016	1.285	0.031	0.021	0.019	22.80	0.026	0.016	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.10	707.50	23095	0.0	23.50	22.48	25	25	Bottom	5	0.020	0.014	1.271	0.025	0.018	0.016	22.80	0.021	0.011	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.01	707.50	23095	0.0	23.50	22.46	25	25	Right	5	0.047	0.030	1.271	0.063	0.040	0.038	22.80	0.054	0.034	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.10	707.50	23095	0.0	23.50	22.46	25	25	Right	5	0.042	0.028	1.271	0.053	0.036	0.031	22.80	0.045	0.028	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	-0.02	707.50	23095	0.0	23.50	22.41	1	25	Left	5	0.197	0.106	1.285	0.253	0.136	0.136	22.80	0.215	0.114	
Body	LTE Band 12	10	QPSK	4	N79J6	1:1	0.08	707.50	23095	0.0	23.50	22.46	25	25	Left	5	0.000	0.000	1.271	0.000	0.000	0.000	22.80	0.000	0.000	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																1.6 W/kg (averaged over 1 gram)										
Special Peak																Body										
Uncontrolled Exposure/General Population																Special Peak										

10.6 LTE Band 13 Standalone SAR

Table 10-15 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]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.05	782.00	23230	0.0	21.60	20.92	1	25	Back	5	1.000	0.548	1.169	1.162	0.641	0.745	20.80	0.991	0.619	A6
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.01	782.00	23230	0.0	21.60	21.05	25	0	Back	5	1.000	0.542	1.135	1.135	0.615	0.709	20.80	0.944	0.590	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.02	782.00	23230	0.0	21.60	20.91	50	0	Back	5	1.000	0.545	1.172	1.184	0.636	0.740	20.80	0.985	0.616	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.03	782.00	23230	0.0	21.60	20.92	1	25	Top	5	0.997	0.517	1.169	0.988	0.371	0.436	20.80	0.581	0.363	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.01	782.00	23230	0.0	21.60	21.05	25	0	Top	5	0.602	0.311	1.135	0.683	0.353	0.427	20.80	0.568	0.355	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.12	782.00	23230	0.0	21.60	20.92	1	25	Bottom	5	0.600	0.321	1.169	0.935	0.405	0.622	20.80	0.939	0.618	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.06	782.00	23230	0.0	21.60	21.05	25	0	Bottom	5	0.011	0.021	1.135	0.035	0.024	0.022	20.80	0.029	0.018	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.01	782.00	23230	0.0	21.60	20.92	1	25	Right	5	0.114	0.074	1.169	0.145	0.087	0.091	20.80	0.121	0.076	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.03	782.00	23230	0.0	21.60	21.05	25	0	Right	5	0.106	0.064	1.135	0.120	0.073	0.075	20.80	0.100	0.061	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.14	782.00	23230	0.0	21.60	20.92	1	25	Left	5	0.061	0.041	1.169	0.071	0.048	0.044	20.80	0.059	0.037	
Body	LTE Band 13	10	QPSK	3b	N7RUE	1:1	-0.14	782.00	23230	0.0	21.60	21.05	25	0	Left	5	0.059	0.040	1.135	0.067	0.045	0.042	20.80	0.056	0.035	
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 10-16 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]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	0.00	782.00	23230	0.0	23.40	22.61	1	25	Back	5	0.957	0.533	1.199	1.147	0.617	0.717	22.60	0.954	0.596	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.01	782.00	23230	0.0	23.40	22.65	25	0	Back	5	0.954	0.532	1.189	1.134	0.633	0.709	22.60	0.943	0.589	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.01	782.00	23230	0.0	23.40	22.99	50	0	Back	5	0.982	0.544	1.205	1.183	0.656	0.739	22.60	0.984	0.615	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	0.04	782.00	23230	0.0	23.40	22.61	1	25	Top	5	0.485	0.279	1.139	0.582	0.335	0.364	22.60	0.484	0.303	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.02	782.00	23230	0.0	23.40	22.65	25	0	Top	5	0.489	0.272	1.189	0.581	0.333	0.363	22.60	0.483	0.302	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.10	782.00	23230	0.0	23.40	22.61	1	25	Bottom	5	0.028	0.029	1.199	0.034	0.023	0.021	22.60	0.028	0.018	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.04	782.00	23230	0.0	23.40	22.65	25	0	Bottom	5	0.025	0.027	1.199	0.037	0.025	0.024	22.60	0.026	0.017	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.13	782.00	23230	0.0	23.40	22.61	1	25	Right	5	0.059	0.040	1.199	0.071	0.048	0.044	22.60	0.059	0.037	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.07	782.00	23230	0.0	23.40	22.65	25	0	Right	5	0.062	0.042	1.189	0.074	0.050	0.046	22.60	0.062	0.039	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	-0.09	782.00	23230	0.0	23.40	22.65	25	0	Left	5	0.163	0.090	1.139	0.263	0.164	0.202	22.60	0.251	0.157	
Body	LTE Band 13	10	QPSK	4	N7RUE	1:1	0.01	782.00	23230	0.0	23.40	22.65	25	0	Left	5	0.254	0.137	1.189	0.302	0.163	0.189	22.60	0.251	0.157	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

10.7 LTE Band 14 Standalone SAR

Table 10-17 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]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.01	793.00	23330	0.0	21.60	20.93	1	49	Back	5	1.010	0.527	1.167	1.179	0.615	0.737	20.80	0.981	0.613	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.03	793.00	23330	0.0	21.60	20.98	25	12	Back	5	0.994	0.525	1.153	1.146	0.605	0.736	20.80	0.913	0.596	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.00	793.00	23330	0.0	21.60	20.92	50	0	Back	5	1.000	0.536	1.169	1.082	0.627	0.745	20.80	0.991	0.619	A7
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.05	793.00	23330	0.0	21.60	20.93	1	49	Top	5	0.628	0.328	1.167	0.733	0.383	0.458	20.80	0.610	0.381	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	0.00	793.00	23330	0.0	21.60	20.98	25	12	Top	5	0.200	0.175	1.153	0.680	0.430	0.539	20.80	0.680	0.441	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.02	793.00	23330	0.0	21.60	20.92	50	0	Top	5	0.677	0.362	1.169	0.791	0.429	0.494	20.80	0.658	0.411	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.12	793.00	23330	0.0	21.60	20.93	1	49	Bottom	5	0.025	0.016	1.167	0.029	0.019	0.028	20.80	0.024	0.015	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.01	793.00	23330	0.0	21.60	20.98	25	12	Bottom	5	0.029	0.020	1.153	0.033	0.023	0.021	20.80	0.027	0.017	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.07	793.00	23330	0.0	21.60	20.93	1	49	Right	5	0.109	0.066	1.167	0.127	0.077	0.079	20.80	0.106	0.066	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.05	793.00	23330	0.0	21.60	20.98	25	12	Right	5	0.111	0.067	1.153	0.128	0.077	0.080	20.80	0.106	0.066	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	-0.09	793.00	23330	0.0	21.60	20.93	1	49	Left	5	0.020	0.020	1.167	0.046	0.020	0.020	20.80	0.038	0.024	
Body	LTE Band 14	10	QPSK	3b	N7RUE	1:1	0.03	793.00	23330	0.0	21.60	20.98	25	12	Left	5	0.046	0.031	1.153	0.053	0.036	0.033	20.80	0.044	0.029	
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 10-18 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]	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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.02	793.00	23330	0.0	23.30	23.00	1	25	Back	5	0.882	0.511	1.230	1.085	0.631	0.678	23.10	0.902	0.564	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.02	793.00	23330	0.0	23.30	22.97	25	25	Back	5	0.894	0.518	1.239	1.108	0.642	0.693	23.10	0.922	0.576	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.05	793.00	23330	0.0	23.30	22.96	50	0	Back	5	0.956	0.534	1.242	1.082	0.653	0.742	23.10	0.987	0.617	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.08	793.00	23330	0.0	23.30	22.94	100	0	Back	5	0.988	0.548	1.250	1.144	0.677	0.758	23.10	1.020	0.702	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.02	793.00	23330	0.0	23.30	22.97	25	25	Top	5	0.715	0.422	1.239	0.886	0.523	0.554	23.10	0.737	0.461	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.02	793.00	23330	0.0	23.30	22.96	50	0	Top	5	0.760	0.438	1.242	0.937	0.539	0.570	23.10	0.772	0.462	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.15	793.00	23330	0.0	23.30	22.90	1	1	Bottom	5	0.520	0.304	1.240	0.625	0.317	0.355	23.10	0.621	0.311	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.20	793.00	23330	0.0	23.30	22.97	25	25	Bottom	5	0.621	0.305	1.239	0.626	0.319	0.356	23.10	0.622	0.314	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.02	793.00	23330	0.0	23.30	22.96	50	0	Bottom	5	0.643	0.310	1.242	0.648	0.324	0.357	23.10	0.646	0.328	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	0.01	793.00	23330	0.0	23.30	22.97	25	25	Right	5	0.043	0.029	1.239	0.053	0.036	0.033	23.10	0.044	0.028	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	0.02	793.00	23330	0.0	23.30	23.00	1	1	Left	5	0.240	0.138	1.230	0.295	0.170	0.184	23.10	0.245	0.153	
Body	LTE Band 14	10	QPSK	4	N7RUE	1:1	-0.02	793.00	23330	0.0	23.30	22.97	25	25	Left	5	0.217	0.135	1.239	0.368	0.144	0.168	23.10	0.218	0.140	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mw/g)									
Uncontrolled (General Population)																	0.08 W/kg (mw/g)									

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.00	815.00	26740	0.0	21.50	20.72	1	49	Back	5	0.861	0.464	1.197	1.031	0.555	0.644	20.80	0.878	0.549	A8	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.03	831.50	26865	0.0	21.50	20.82	1	25	Back	5	0.999	0.535	1.169	1.168	0.625	0.730	20.80	0.994	0.621		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.01	844.00	26990	0.0	21.50	20.77	1	49	Back	5	0.884	0.475	1.183	1.046	0.562	0.654	20.80	0.903	0.556	A9	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.00	815.00	26740	0.0	21.50	20.78	25	25	Back	5	0.829	0.451	1.180	0.978	0.532	0.631	20.80	0.832	0.520		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.02	831.50	26865	0.0	21.50	20.82	25	12	Back	5	0.869	0.474	1.189	1.016	0.554	0.635	20.80	0.865	0.541	A10	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.00	844.00	26990	0.0	21.50	20.79	25	0	Back	5	0.803	0.437	1.178	0.946	0.515	0.591	20.80	0.805	0.503		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.01	831.50	26865	0.0	21.50	20.81	50	0	Back	5	0.867	0.473	1.172	1.016	0.554	0.635	20.80	0.865	0.541	A11	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.01	815.00	26740	0.0	21.50	20.72	1	49	Top	5	0.758	0.417	1.197	0.907	0.499	0.567	20.80	0.772	0.481		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.00	831.50	26865	0.0	21.50	20.82	1	25	Top	5	0.769	0.431	1.169	0.899	0.480	0.562	20.80	0.765	0.478	A12	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.04	844.00	26990	0.0	21.50	20.77	1	49	Top	5	0.644	0.318	1.183	0.762	0.376	0.476	20.80	0.649	0.406		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.00	815.00	26740	0.0	21.50	20.78	25	25	Top	5	0.752	0.419	1.180	0.887	0.484	0.554	20.80	0.755	0.472	A13	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.03	831.50	26865	0.0	21.50	20.82	25	12	Top	5	0.768	0.431	1.169	0.898	0.480	0.561	20.80	0.764	0.478		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.04	844.00	26990	0.0	21.50	20.79	25	0	Top	5	0.640	0.315	1.178	0.754	0.371	0.471	20.80	0.642	0.401	A14	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.01	831.50	26865	0.0	21.50	20.81	50	0	Top	5	0.754	0.406	1.172	0.895	0.479	0.559	20.80	0.762	0.476		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.06	815.00	26865	0.0	21.50	20.82	1	25	Bottom	5	0.650	0.325	1.169	0.935	0.513	0.622	20.80	0.630	0.415	A15	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.04	831.50	26865	0.0	21.50	20.82	25	12	Bottom	5	0.612	0.322	1.169	0.837	0.526	0.623	20.80	0.631	0.419		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.06	831.50	26865	0.0	21.50	20.82	25	12	Right	5	0.125	0.077	1.169	0.146	0.090	0.091	20.80	0.134	0.078	A16	
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	0.01	831.50	26865	0.0	21.50	20.82	25	12	Right	5	0.125	0.077	1.169	0.146	0.090	0.091	20.80	0.134	0.078		
Body	LTE Band 26	10	QPSK	3b	F2227	1:1	-0.17	831.50	26865	0.0	21.50	20.82	25	12	Left	5	0.035	0.023	1.169	0.041	0.027	0.026	20.80	0.035	0.022	A17	
ANSI/IEEE CS11.1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																											

Table 10-20 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.03	815.00	26740	0.0	23.90	23.09	1	25	Back	5	0.645	0.401	1.205	0.777	0.443	0.486	23.10	0.646	0.404	A18	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.00	815.00	26740	0.0	23.90	23.10	25	12	Back	5	0.627	0.389	1.202	0.754	0.468	0.471	23.10	0.627	0.392		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.01	815.00	26740	0.0	23.90	23.09	1	25	Top	5	0.944	0.572	1.205	1.138	0.689	0.711	23.10	0.947	0.592	A19	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.01	831.50	26865	0.0	23.90	22.96	1	25	Top	5	0.829	0.563	1.202	1.049	0.629	0.721	23.10	0.840	0.491		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.03	844.00	26990	0.0	23.90	22.96	1	49	Top	5	0.787	0.472	1.242	0.977	0.586	0.611	23.10	0.813	0.508	A20	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.00	815.00	26740	0.0	23.90	23.10	25	12	Top	5	0.953	0.576	1.202	1.146	0.692	0.716	23.10	0.953	0.596		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.01	831.50	26865	0.0	23.90	22.97	25	25	Top	5	0.927	0.562	1.219	1.149	0.676	0.718	23.10	0.956	0.598	A21	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.03	844.00	26990	0.0	23.90	22.99	25	12	Top	5	0.856	0.511	1.231	1.055	0.635	0.659	23.10	0.878	0.549		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.01	831.50	26740	0.0	23.90	22.98	50	0	Top	5	0.958	0.578	1.216	1.184	0.714	0.740	23.10	0.985	0.616	A22	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.07	815.00	26740	0.0	23.90	23.09	1	25	Bottom	5	0.678	0.404	1.205	0.694	0.405	0.509	23.10	0.678	0.409		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.03	815.00	26740	0.0	23.90	23.10	25	12	Bottom	5	0.676	0.403	1.202	0.691	0.403	0.507	23.10	0.676	0.408	A23	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.18	815.00	26740	0.0	23.90	23.09	1	25	Right	5	0.084	0.057	1.205	0.101	0.069	0.063	23.10	0.084	0.051		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.09	815.00	26740	0.0	23.90	23.10	25	12	Right	5	0.094	0.064	1.202	0.113	0.077	0.071	23.10	0.094	0.059	A24	
Body	LTE Band 26	10	CPKX	4	F2227	1:1	0.00	815.00	26740	0.0	23.90	23.09	1	25	Left	5	0.248	0.143	1.205	0.299	0.172	0.187	23.10	0.249	0.156		
Body	LTE Band 26	10	CPKX	4	F2227	1:1	-0.04	815.00	26740	0.0	23.90	23.10	25	12	Left	5	0.251	0.145	1.202	0.302	0.174	0.189	23.10	0.251	0.157	A25	
ANSI/IEEE CS11.1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																											

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 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 5	10	CPKX	3b	H4C66	1:1	0.04	816.50	20525	0.0	21.60	20.42	1	0	Back	5	0.895	0.472	1.312	1.174	0.619	0.734	20.50	0.999	0.624	A26
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	0.00	816.50	20525	0.0	21.60	20.47	25	0	Back	5	0.805	0.455	1.297	1.122	0.590	0.701	20.50	0.955	0.597	
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	0.00	816.50	20525	0.0	21.60	20.41	50	0	Back	5	0.884	0.464	1.315	1.162	0.610	0.726	20.50	0.989	0.618	A27
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.02	816.50	20525	0.0	21.60	20.42	1	0	Top	5	0.962	0.506	1.312	0.908	0.480	0.568	20.50	0.771	0.481	
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.01	816.50	20525	0.0	21.60	20.47	25	0	Top	5	0.702	0.367	1.297	0.910	0.476	0.569	20.50	0.775	0.484	A28
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	0.00	816.50	20525	0.0	21.60	20.41	50	0	Top	5	0.717	0.367	1.315	0.943	0.483	0.589	20.50	0.803	0.507	
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.14	816.50	20525	0.0	21.60	20.42	1	0	Bottom	5	0.612	0.321	1.312	0.942	0.528	0.604	20.50	0.686	0.021	A29
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	0.14	816.50	20525	0.0	21.60	20.47	25	0	Bottom	5	0.680	0.367	1.297	0.939	0.577	0.684	20.50	0.933	0.619	
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	0.00	816.50	20525	0.0	21.60	20.42	1	0	Right	5	0.124	0.064	1.312	0.136	0.084	0.085	20.50	0.116	0.073	A30
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.04	816.50	20525	0.0	21.60	20.47	25	0	Right	5	0.118	0.070	1.297	0.147	0.091	0.095	20.50	0.125	0.078	
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.09	816.50	20525	0.0	21.60	20.42	1	0	Left	5	0.602	0.321	1.312	0.932	0.528	0.602	20.50	0.932	0.619	A31
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.03	816.50	20525	0.0	21.60	20.47	25	0	Left	5	0.628	0.329	1.297	0.936	0.525	0.623	20.50	0.931	0.619	
Body	LTE Band 5	10	CPKX	3b	H4C66	1:1	-0.02	816.50	20525	0.0	21.60	20.40	1	0	Back	5	0.947	0.445	1.318	1.136	0.587	0.698	20.50	0.950	0.594	A32
								816.50	20451				1	24												
ANSI/IEEE C63.19-2 SAFETY LIMIT																Body										
Uncontrolled Exposure/General Population																Special Peak										
																1.6 W/kg (40 mW/g)										
																Averaged over 1 gram										

10.10 LTE Band 106 Standalone SAR

Table 10-23 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]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.02	898.50	134317	0.0	22.90	22.05	1	7	Back	5	0.907	0.507	1.216	1.176	0.617	0.735	22.10	0.978	0.611	A10
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	0.00	898.50	134317	0.0	22.90	22.08	8	4	Back	5	0.948	0.499	1.208	1.145	0.603	0.726	22.10	0.952	0.595	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.01	898.50	134317	0.0	22.90	22.02	15	0	Back	5	0.912	0.491	1.225	1.142	0.601	0.724	22.10	0.950	0.588	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	0.00	898.50	134317	0.0	22.90	22.05	1	7	Top	5	0.790	0.389	1.216	0.961	0.473	0.601	22.10	0.799	0.499	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.02	898.50	134317	0.0	22.90	22.08	8	4	Top	5	0.761	0.383	1.208	0.943	0.463	0.589	22.10	0.784	0.490	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.03	898.50	134317	0.0	22.90	22.02	15	0	Top	5	0.775	0.383	1.225	0.949	0.469	0.593	22.10	0.789	0.493	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	0.08	898.50	134317	0.0	22.90	22.05	1	7	Bottom	5	0.011	0.021	1.216	0.038	0.026	0.024	22.10	0.032	0.020	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.17	898.50	134317	0.0	22.90	22.08	8	4	Bottom	5	0.011	0.022	1.208	0.017	0.027	0.023	22.10	0.011	0.019	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.05	898.50	134317	0.0	22.90	22.05	1	7	Right	5	0.111	0.067	1.216	0.135	0.081	0.084	22.10	0.112	0.070	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	0.02	898.50	134317	0.0	22.90	22.08	8	4	Right	5	0.111	0.067	1.208	0.134	0.081	0.084	22.10	0.111	0.069	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	0.11	898.50	134317	0.0	22.90	22.05	1	7	Left	5	0.044	0.029	1.216	0.054	0.035	0.034	22.10	0.045	0.028	
Body	LTE Band 106	3	QPSK	3b	9W3JR	1:1	-0.20	898.50	134317	0.0	22.90	22.08	8	4	Left	5	0.062	0.028	1.208	0.051	0.034	0.032	22.10	0.042	0.026	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-24 Antenna 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]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.01	898.50	134317	0.0	24.00	23.17	1	7	Back	5	0.911	0.354	1.211	1.152	0.671	0.720	23.10	0.981	0.611	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.02	898.50	134317	0.0	24.00	23.11	8	7	Back	5	0.890	0.519	1.227	1.092	0.637	0.683	23.10	0.929	0.581	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	0.00	898.50	134317	0.0	24.00	23.09	15	0	Back	5	0.926	0.521	1.213	1.117	0.655	0.698	23.10	0.951	0.586	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	0.00	898.50	134317	0.0	24.00	23.17	1	7	Top	5	0.651	0.347	1.211	0.788	0.420	0.493	23.10	0.671	0.419	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.03	898.50	134317	0.0	24.00	23.11	8	7	Top	5	0.662	0.351	1.227	0.812	0.431	0.508	23.10	0.691	0.432	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.01	898.50	134317	0.0	24.00	23.08	15	0	Top	5	0.619	0.329	1.228	0.765	0.411	0.477	23.10	0.649	0.406	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	0.02	898.50	134317	0.0	24.00	23.17	1	7	Bottom	5	0.062	0.046	1.211	0.079	0.054	0.049	23.10	0.067	0.042	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	0.07	898.50	134317	0.0	24.00	23.11	8	7	Bottom	5	0.065	0.045	1.227	0.080	0.055	0.050	23.10	0.068	0.043	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.07	898.50	134317	0.0	24.00	23.17	1	7	Right	5	0.052	0.061	1.211	0.113	0.074	0.069	23.10	0.084	0.055	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.08	898.50	134317	0.0	24.00	23.11	8	7	Right	5	0.089	0.060	1.227	0.109	0.074	0.068	23.10	0.093	0.058	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.01	898.50	134317	0.0	24.00	23.17	1	7	Left	5	0.340	0.203	1.211	0.412	0.246	0.258	23.10	0.351	0.219	
Body	LTE Band 106	3	QPSK	4	QW4JG	1:1	-0.01	898.50	134317	0.0	24.00	23.11	8	7	Left	5	0.319	0.202	1.227	0.416	0.248	0.260	23.10	0.354	0.221	
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: BCGA3596	DUT Type: Tablet Device	RF EXPOSURE TEST REPORT	Approved by: Technical Manager
Document S/N: 1C2604030026-29.BCG-R1		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 191 of 244

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10.11 LTE Band 66 (AWS) Standalone SAR

Table 10-25 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 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 30g SAR [W/kg]	Plot #
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.04	1720.00	132072	0.0	20.00	19.62	1	50	Back	5	0.989	0.454	1.091	1.079	0.495	0.674	15.20	0.897	0.561	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.02	1745.00	132322	0.0	20.00	19.55	1	50	Back	5	1.070	0.451	1.109	1.087	0.545	0.742	15.20	0.987	0.617	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.00	1720.00	132072	0.0	20.00	19.61	50	25	Back	5	1.000	0.450	1.094	1.094	0.502	0.688	15.20	0.910	0.569	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.01	1745.00	132322	0.0	20.00	19.56	50	25	Back	5	1.090	0.478	1.107	1.162	0.529	0.726	15.20	0.967	0.604	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.01	1720.00	132072	0.0	20.00	19.60	100	0	Back	5	1.020	0.467	1.096	1.118	0.512	0.699	15.20	0.930	0.581	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.01	1720.00	132072	0.0	20.00	19.62	1	50	Top	5	0.911	0.405	1.091	0.912	0.405	0.508	15.20	0.810	0.006	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	0.08	1720.00	132072	0.0	20.00	19.61	50	25	Top	5	0.911	0.405	1.094	0.912	0.405	0.508	15.20	0.810	0.006	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.01	1720.00	132072	0.0	20.00	19.62	1	50	Bottom	5	0.881	0.389	1.091	0.861	0.424	0.601	15.20	0.799	0.499	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.01	1745.00	132322	0.0	20.00	19.56	1	50	Bottom	5	0.971	0.429	1.109	1.077	0.476	0.673	15.20	0.896	0.560	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	0.00	1720.00	132072	0.0	20.00	19.61	50	25	Bottom	5	0.890	0.393	1.094	0.974	0.430	0.609	15.20	0.810	0.506	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	0.00	1745.00	132322	0.0	20.00	19.56	50	25	Bottom	5	0.974	0.430	1.107	1.078	0.476	0.674	15.20	0.897	0.561	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	0.00	1720.00	132072	0.0	20.00	19.60	100	0	Bottom	5	0.911	0.405	1.096	0.908	0.442	0.624	15.20	0.810	0.515	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.04	1720.00	132072	0.0	20.00	19.62	1	50	Right	5	0.917	0.400	1.091	0.940	0.402	0.625	15.20	0.810	0.021	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.03	1720.00	132072	0.0	20.00	19.61	50	25	Right	5	0.918	0.402	1.094	0.942	0.404	0.626	15.20	0.810	0.022	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.11	1720.00	132072	0.0	20.00	19.62	1	50	Left	5	0.948	0.407	1.091	0.952	0.409	0.633	15.20	0.943	0.027	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.07	1720.00	132072	0.0	20.00	19.61	50	25	Left	5	0.944	0.404	1.094	0.948	0.406	0.630	15.20	0.940	0.025	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	0.00	1770.00	132572	0.0	19.90	19.71	1	50	Back	5	0.883	0.401	1.115	1.161	0.527	0.726	15.20	0.956	0.604	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	-0.01	1770.00	132572	0.0	19.90	19.73	50	0	Back	5	0.877	0.399	1.109	1.148	0.522	0.718	15.20	0.955	0.597	
Body	LTE Band 66	20	QPSK	1b	9W3JR	1:1	0.02	1770.00	132572	0.0	19.90	19.71	1	50	Bottom	5	0.850	0.376	1.115	1.118	0.494	0.699	15.20	0.930	0.581	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 10-26 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 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 30g SAR [W/kg]	Plot #
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.00	1720.00	132072	0.0	25.40	24.61	1	50	Back	5	0.985	0.553	1.199	1.181	0.653	0.738	24.50	0.982	0.614	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.03	1745.00	132322	0.0	25.40	25.03	1	50	Back	5	0.949	0.528	1.089	1.033	0.575	0.646	24.50	0.809	0.537	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.11	1720.00	132072	0.7	24.70	24.41	50	50	Back	5	0.770	0.436	1.069	0.823	0.466	0.514	23.50	0.685	0.428	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.05	1745.00	132322	0.7	24.70	24.46	50	25	Back	5	0.766	0.421	1.057	0.810	0.445	0.506	23.50	0.674	0.421	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.02	1720.00	132072	0.0	25.40	24.61	1	50	Bottom	5	0.691	0.318	1.199	0.829	0.381	0.518	24.50	0.690	0.431	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.04	1745.00	132322	0.0	25.40	25.03	1	50	Bottom	5	0.745	0.338	1.089	0.811	0.368	0.507	24.50	0.675	0.422	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.02	1745.00	132322	0.7	24.70	24.46	50	25	Bottom	5	0.750	0.294	1.057	0.811	0.268	0.363	23.50	0.643	0.302	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.02	1720.00	132072	0.0	25.70	24.82	1	50	Back	5	0.969	0.538	1.229	1.187	0.647	0.742	24.50	0.987	0.617	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.01	1770.00	132572	1.0	24.70	24.04	50	50	Back	5	0.671	0.366	1.164	0.781	0.426	0.488	23.50	0.650	0.406	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.01	1770.00	132572	1.0	24.70	24.04	100	0	Back	5	0.780	0.412	1.167	0.789	0.412	0.493	23.50	0.656	0.410	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.08	1770.00	132572	0.0	25.70	24.82	1	50	Top	5	0.914	0.507	1.225	0.917	0.609	0.611	24.50	0.914	0.009	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.09	1770.00	132572	1.0	24.70	24.04	50	50	Top	5	0.910	0.506	1.164	0.912	0.607	0.608	23.50	0.910	0.006	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.04	1770.00	132572	0.0	25.70	24.82	1	50	Bottom	5	0.696	0.317	1.225	0.683	0.388	0.533	24.50	0.709	0.441	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.01	1770.00	132572	1.0	24.70	24.04	50	50	Bottom	5	0.545	0.246	1.164	0.634	0.286	0.396	23.50	0.527	0.329	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.02	1770.00	132572	1.0	24.70	24.04	100	0	Bottom	5	0.551	0.248	1.167	0.643	0.289	0.402	23.50	0.535	0.334	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.13	1770.00	132572	0.0	25.70	24.82	1	50	Right	5	0.709	0.390	1.225	0.714	0.404	0.584	24.50	0.714	0.059	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.06	1770.00	132572	1.0	24.70	24.04	50	50	Right	5	0.693	0.391	1.164	0.648	0.399	0.508	23.50	0.690	0.056	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	0.19	1770.00	132572	0.0	25.70	24.82	1	50	Left	5	0.628	0.316	1.225	0.634	0.400	0.621	24.50	0.628	0.018	
Body	LTE Band 66	20	QPSK	2	N7R6L	1:1	-0.08	1770.00	132572	1.0	24.70	24.04	50	50	Left	5	0.601	0.302	1.164	0.604	0.314	0.505	23.50	0.600	0.013	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Body						
Spatial Peak																				1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																				averaged over 1 gram						

Table 10-27 Antenna 3a

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 30g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 30g SAR [W/kg]	Exposure Ratio (1g SAR)	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 30g SAR [W/kg]	Plot #
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.01	1720.00	132072	0.0	21.30	20.65	1	50	Back	5	0.995	0.521	1.161	1.155	0.605	0.722	20.50	0.961	0.601	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1745.00	132322	0.0	21.30	20.87	1	50	Back	5	1.020	0.536	1.104	1.126	0.592	0.704	20.50	0.937	0.586	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	-0.01	1720.00	132072	0.0	21.30	20.90	50	0	Bottom	5	0.998	0.521	1.161	1.155	0.605	0.722	20.50	0.961	0.601	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.01	1745.00	132322	0.0	21.30	20.94	50	0	Top	5	1.000	0.571	1.080	1.184	0.622	0.740	20.50	0.885	0.616	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.03	1745.00	132322	0.0	21.30	20.87	1	50	Top	5	0.941	0.233	1.104	0.997	0.257	0.873	20.50	0.497	0.311	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1720.00	132072	0.0	21.30	20.87	1	50	Top	5	0.998	0.521	1.161	1.155	0.605	0.722	20.50	0.961	0.601	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	-0.01	1745.00	132322	0.0	21.30	20.94	50	25	Top	5	0.945	0.235	1.080	0.992	0.255	0.873	20.50	0.492	0.308	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1745.00	132322	0.0	21.30	20.87	1	50	Right	5	0.993	0.509	1.104	0.605	0.341	0.409	20.50	0.545	0.341	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1720.00	132072	0.0	21.30	20.90	50	0	Right	5	0.998	0.521	1.161	1.155	0.605	0.722	20.50	0.961	0.601	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.04	1745.00	132322	0.0	21.30	20.94	50	25	Right	5	0.960	0.311	1.080	0.654	0.340	0.409	20.50	0.544	0.340	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.04	1770.00	132572	0.0	21.90	21.61	100	0	Bottom	5	1.000	0.599	1.081	1.146	0.616	0.749	21.10	0.933	0.596	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1770.00	132572	0.0	21.90	21.61	100	0	Bottom	5	0.999	0.599	1.081	1.146	0.616	0.749	21.10	0.933	0.596	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.01	1770.00	132572	0.0	21.90	21.54	100	0	Back	5	1.050	0.587	1.086	1.184	0.637	0.740	21.10	0.895	0.616	A11
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1770.00	132572	0.0	21.90	21.54	100	0	Back	5	1.050	0.587	1.086	1.184	0.637	0.740	21.10	0.895	0.616	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.05	1770.00	132572	0.0	21.90	21.56	1	50	Top	5	0.739	0.335	1.081	0.799	0.342	0.499	21.10	0.605	0.416	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.03	1770.00	132572	0.0	21.90	21.61	50	Top	Top	5	0.811	0.389	1.069	0.835	0.362	0.522	21.10	0.605	0.434	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1770.00	132572	0.0	21.90	21.54	100	0	Top	5	0.999	0.599	1.081	1.146	0.616	0.749	21.10	0.933	0.414	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	-0.02	1770.00	132572	0.0	21.90	21.56	1	50	Bottom	5	0.069	0.031	1.081	0.084	0.036	0.040	21.10	0.03	0.013	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	-0.21	1770.00	132572	0.0	21.90	21.61	50	0	Bottom	5	0.061	0.034	1.069	0.056	0.036	0.041	21.10	0.054	0.034	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.00	1770.00	132572	0.0	21.90	21.61	50	0	Bottom	5	0.710	0.499	1.069	0.818	0.414	0.499	21.10	0.605	0.414	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.01	1770.00	132572	0.0	21.90	21.61	50	0	Bottom	5	0.770	0.404	1.069	0.823	0.428	0.514	21.10	0.688	0.428	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.03	1770.00	132572	0.0	21.90	21.54	100	0	Right	5	0.766	0.397	1.089	0.832	0.420	0.520	21.10	0.602	0.431	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	-0.11	1770.00	132572	0.0	21.90	21.61	50	0	Left	5	0.979	0.599	1.081	0.910	0.596	0.709	21.10	0.908	0.596	
Body	LTE Band 66	20	QPSK	3a	N7R6L	1:1	0.01	1770.00	132572	0.0	21.90	21.61	50	0	Left	5	0.931	0.007	1.069	0.031	0.007	0.007	21.10	0.009	0.006	

10.12 LTE Band 25 (PCS) Standalone SAR

Table 10-29 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 [g SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.18	1860.00	26140	0.0	18.30	18.26	1	50	Back	5	1.000	0.473	1.009	1.009	0.477	0.662	17.50	0.681	0.551	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.01	1862.50	26365	0.0	18.30	18.10	1	50	Back	5	1.000	0.470	1.047	1.150	0.492	0.694	17.50	0.923	0.577	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.01	1905.00	26930	0.0	18.30	17.77	1	50	Back	5	1.000	0.458	1.120	1.153	0.518	0.721	17.50	0.959	0.599	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.02	1860.00	26140	0.0	18.30	18.29	50	0	Back	5	1.000	0.475	1.002	1.062	0.476	0.664	17.50	0.683	0.552	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.00	1862.50	26365	0.0	18.30	18.17	50	0	Back	5	0.988	0.448	1.030	1.018	0.461	0.636	17.50	0.847	0.529	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.03	1905.00	26930	0.0	18.30	18.10	50	0	Back	5	1.000	0.470	1.047	1.140	0.492	0.694	17.50	0.923	0.577	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.01	1860.00	26140	0.0	18.30	18.24	100	0	Back	5	1.030	0.461	1.014	1.034	0.467	0.646	17.50	0.860	0.538	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.12	1860.00	26140	0.0	18.30	18.26	1	50	Top	5	0.003	0.012	1.009	0.023	0.012	0.014	17.50	0.019	0.012	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.09	1860.00	26140	0.0	18.30	18.29	50	0	Top	5	0.013	0.011	1.002	0.023	0.011	0.014	17.50	0.019	0.012	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.05	1860.00	26140	0.0	18.30	18.26	1	50	Bottom	5	0.946	0.416	1.009	0.955	0.420	0.597	17.50	0.794	0.496	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.01	1862.50	26365	0.0	18.30	18.10	1	50	Bottom	5	1.070	0.499	1.047	1.140	0.481	0.700	17.50	0.932	0.581	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.02	1905.00	26930	0.0	18.30	17.77	1	50	Bottom	5	1.000	0.464	1.130	1.175	0.524	0.734	17.50	0.977	0.611	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.01	1860.00	26140	0.0	18.30	18.29	50	0	Bottom	5	0.997	0.434	1.002	0.999	0.435	0.624	17.50	0.831	0.519	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.02	1862.50	26365	0.0	18.30	18.17	50	0	Bottom	5	0.967	0.426	1.030	0.996	0.429	0.623	17.50	0.828	0.518	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.02	1905.00	26930	0.0	18.30	18.10	50	0	Bottom	5	1.000	0.477	1.047	1.141	0.499	0.713	17.50	0.949	0.593	A12
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.01	1860.00	26140	0.0	18.30	18.24	100	0	Bottom	5	0.917	0.411	1.014	0.950	0.417	0.594	17.50	0.790	0.494	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.03	1860.00	26140	0.0	18.30	18.29	1	50	Right	5	0.022	0.013	1.009	0.022	0.013	0.014	17.50	0.018	0.012	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.12	1860.00	26140	0.0	18.30	18.29	50	0	Right	5	0.023	0.022	1.002	0.023	0.012	0.014	17.50	0.019	0.012	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	0.03	1860.00	26140	0.0	18.30	18.26	1	50	Left	5	0.061	0.039	1.009	0.062	0.033	0.039	17.50	0.052	0.033	
Body	LTE Band 25	20	QPSK	1b	R27C0	1:1	-0.07	1860.00	26140	0.0	18.30	18.29	50	0	Left	5	0.051	0.026	1.002	0.051	0.026	0.032	17.50	0.042	0.026	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																										

Table 10-30 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 [g SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.02	1860.00	26140	0.0	18.90	18.05	1	50	Back	5	0.698	0.347	1.216	0.849	0.422	0.531	18.20	0.723	0.452	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.01	1862.50	26365	0.0	18.90	18.04	1	50	Back	5	0.622	0.308	1.219	0.758	0.375	0.474	18.20	0.645	0.403	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.04	1905.00	26930	0.0	18.90	17.91	1	50	Back	5	0.487	0.239	1.256	0.612	0.300	0.383	18.20	0.521	0.326	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.00	1860.00	26140	0.0	18.90	18.04	100	0	Back	5	0.613	0.319	1.172	0.714	0.471	0.643	18.20	0.642	0.401	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.02	1860.00	26140	0.0	18.90	18.04	100	0	Back	5	0.632	0.313	1.219	0.720	0.382	0.483	18.20	0.655	0.409	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.05	1860.00	26140	0.0	18.90	18.05	1	50	Top	5	0.008	0.004	1.216	0.010	0.005	0.006	18.20	0.009	0.006	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.11	1860.00	26140	0.0	18.90	18.21	50	0	Top	5	0.009	0.005	1.172	0.006	0.007	0.007	18.20	0.009	0.006	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.00	1860.00	26140	0.0	18.90	18.09	1	50	Bottom	5	0.960	0.435	1.216	1.167	0.529	0.729	18.20	0.993	0.621	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.01	1862.50	26365	0.0	18.90	18.04	1	50	Bottom	5	0.761	0.349	1.219	0.928	0.425	0.580	18.20	0.790	0.494	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.04	1905.00	26930	0.0	18.90	17.91	1	50	Bottom	5	0.609	0.277	1.256	0.705	0.348	0.478	18.20	0.611	0.407	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.01	1860.00	26140	0.0	18.90	18.21	50	0	Bottom	5	0.900	0.413	1.172	1.055	0.484	0.639	18.20	0.898	0.561	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.01	1862.50	26365	0.0	18.90	18.06	50	0	Bottom	5	0.770	0.354	1.213	0.934	0.429	0.584	18.20	0.795	0.497	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.02	1905.00	26930	0.0	18.90	17.98	50	0	Bottom	5	0.629	0.287	1.236	0.777	0.355	0.486	18.20	0.661	0.413	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.00	1860.00	26140	0.0	18.90	18.04	100	0	Bottom	5	0.857	0.395	1.219	1.045	0.482	0.653	18.20	0.889	0.556	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.02	1860.00	26140	0.0	18.90	18.05	1	50	Right	5	0.234	0.118	1.216	0.395	0.143	0.178	18.20	0.243	0.152	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.01	1860.00	26140	0.0	18.90	18.21	50	0	Right	5	0.238	0.123	1.172	0.279	0.142	0.174	18.20	0.237	0.148	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	0.02	1860.00	26140	0.0	18.90	18.05	1	50	Left	5	0.001	0.000	1.216	0.001	0.000	0.001	18.20	0.001	0.001	
Body	LTE Band 25	20	OFDM	2	N79U6	1:1	-0.04	1860.00	26140	0.0	18.90	18.21	50	0	Left	5	0.000	0.000	1.172	0.000	0.000	0.000	18.20	0.000	0.000	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak																		Body								
Uncontrolled Exposure/General Population																										

Table 10-31 Antenna 3a

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 [g SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	-0.05	1860.00	26140	0.0	21.20	20.07	1	50	Back	5	0.824	0.440	1.297	1.069	0.571	0.668	20.50	0.910	0.569	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	-0.04	1862.50	26365	0.0	21.20	19.95	1	50	Back	5	0.817	0.432	1.334	1.090	0.576	0.681	20.50	0.928	0.580	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	-0.02	1905.00	26930	0.0	21.20	19.94	1	50	Back	5	0.863	0.456	1.337	1.154	0.610	0.721	20.50	0.982	0.614	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1860.00	26140	0.0	21.20	20.04	50	25	Back	5	0.842	0.447	1.306	1.094	0.584	0.688	20.50	0.936	0.585	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	-0.02	1862.50	26365	0.0	21.20	19.97	50	25	Back	5	0.840	0.446	1.327	1.168	0.611	0.730	20.50	0.984	0.621	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.03	1905.00	26930	0.0	21.20	19.95	50	25	Back	5	0.820	0.433	1.334	1.094	0.578	0.684	20.50	0.931	0.582	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1860.00	26140	0.0	21.20	20.02	100	0	Back	5	0.842	0.447	1.306	1.110	0.584	0.688	20.50	0.944	0.593	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.04	1860.00	26140	0.0	21.20	20.07	1	50	Top	5	0.820	0.223	2.297	1.074	0.289	0.421	20.50	0.574	0.395	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1860.00	26140	0.0	21.20	20.04	50	25	Top	5	0.834	0.228	1.306	0.697	0.296	0.434	20.50	0.593	0.371	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	-0.03	1860.00	26140	0.0	21.20	20.07	Bottom	50	Bottom	5	0.842	0.023	2.297	1.074	0.289	0.421	20.50	0.574	0.395	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.09	1860.00	26140	0.0	21.20	20.04	50	25	Bottom	5	0.955	0.009	1.306	0.077	0.039	0.045	20.50	0.061	0.038	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.01	1860.00	26140	0.0	21.20	20.07	1	50	Right	5	0.821	0.317	1.297	0.805	0.411	0.503	20.50	0.685	0.428	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1862.50	26365	0.0	21.20	19.94	1	50	Right	5	0.866	0.346	1.334	0.844	0.424	0.544	20.50	0.748	0.474	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.04	1905.00	26930	0.0	21.20	19.94	1	50	Right	5	0.628	0.327	1.337	0.803	0.437	0.550	20.50	0.749	0.468	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	-0.01	1860.00	26140	0.0	21.20	20.04	50	25	Right	5	0.623	0.317	1.306	0.814	0.414	0.509	20.50	0.693	0.433	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1862.50	26365	0.0	21.20	19.97	50	25	Right	5	0.637	0.340	1.334	0.845	0.425	0.546	20.50	0.752	0.477	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.03	1905.00	26930	0.0	21.20	19.95	50	25	Right	5	0.662	0.328	1.334	0.833	0.438	0.552	20.50	0.752	0.470	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1860.00	26140	0.0	21.20	20.02	100	0	Right	5	0.633	0.323	1.312	0.830	0.424	0.518	20.50	0.706	0.441	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.00	1860.00	26140	0.0	21.20	20.07	1	50	Left	5	0.842	0.009	1.306	0.009	0.005	0.009	20.50	0.007	0.005	
Body	LTE Band 25	20	OFDM	3a	R27C0	1:1	0.14	1860.00	26140	0.0	21.20	20.04	50	25	Left	5	0.906	0.001	1.306	0.008	0.004	0.005	20.50	0.007	0.004	
ANSI/IEEE C63.1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.4 W/kg (w/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

10.13 LTE Band 30 Standalone SAR

Table 10-33 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	-0.03	2310.00	27710	0.0	18.90	17.84	1	25	Back	5	0.705	0.333	1.276	0.976	0.425	0.630	18.10	0.812	0.508	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	-0.05	2310.00	27710	0.0	18.90	17.96	25	12	Back	5	0.729	0.330	1.242	0.943	0.430	0.589	18.10	0.784	0.490	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	-0.05	2310.00	27710	0.0	18.90	17.83	50	0	Back	5	0.761	0.333	1.279	0.976	0.426	0.630	18.10	0.812	0.508	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	0.01	2310.00	27710	0.0	18.90	17.84	1	25	Top	5	0.003	0.000	1.276	0.004	0.000	0.003	18.10	0.003	0.002	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	0.09	2310.00	27710	0.0	18.90	17.96	25	12	Top	5	0.003	0.001	1.242	0.004	0.001	0.003	18.10	0.003	0.002	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	0.04	2310.00	27710	0.0	18.90	17.84	1	25	Bottom	5	0.845	0.369	1.278	1.078	0.471	0.634	18.10	0.897	0.561	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	0.01	2310.00	27710	0.0	18.90	17.96	25	12	Bottom	5	0.856	0.373	1.242	1.063	0.463	0.664	18.10	0.884	0.553	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	-0.03	2310.00	27710	0.0	18.90	17.83	50	0	Bottom	5	0.819	0.406	1.279	1.175	0.519	0.734	18.10	0.977	0.611	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	-0.14	2310.00	27710	0.0	18.90	17.84	1	25	Right	5	0.001	0.001	1.276	0.007	0.014	0.007	18.10	0.022	0.014	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	0.03	2310.00	27710	0.0	18.90	17.96	25	12	Right	5	0.023	0.021	1.242	0.029	0.014	0.028	18.10	0.024	0.015	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	0.08	2310.00	27710	0.0	18.90	17.84	1	25	Left	5	0.004	0.002	1.276	0.011	0.015	0.019	18.10	0.026	0.016	
Body	LTE Band 30	10	QPSK	1b	9VFDY	1:1	-0.03	2310.00	27710	0.0	18.90	17.96	25	12	Left	5	0.005	0.001	1.242	0.031	0.016	0.039	18.10	0.026	0.016	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-34 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.01	2310.00	27710	0.0	16.70	15.35	1	25	Back	5	0.637	0.278	1.365	0.870	0.379	0.544	15.90	0.724	0.451	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	0.00	2310.00	27710	0.0	16.70	15.36	25	12	Back	5	0.625	0.273	1.361	0.851	0.372	0.532	15.90	0.708	0.443	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.01	2310.00	27710	0.0	16.70	15.34	50	0	Back	5	0.637	0.246	1.368	0.735	0.317	0.468	15.90	0.611	0.381	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	0.02	2310.00	27710	0.0	16.70	15.35	1	25	Top	5	0.002	0.000	1.365	0.003	0.000	0.002	15.90	0.002	0.001	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	0.08	2310.00	27710	0.0	16.70	15.36	25	12	Top	5	0.004	0.002	1.361	0.005	0.003	0.003	15.90	0.004	0.003	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.02	2310.00	27710	0.0	16.70	15.36	1	25	Bottom	5	0.620	0.240	1.365	0.840	0.340	0.520	15.90	0.690	0.430	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.02	2310.00	27710	0.0	16.70	15.36	25	12	Bottom	5	0.850	0.387	1.361	1.146	0.527	0.728	15.90	0.869	0.606	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.01	2310.00	27710	0.0	16.70	15.34	50	0	Bottom	5	0.871	0.394	1.368	1.192	0.539	0.745	15.90	0.991	0.619	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.12	2310.00	27710	0.0	16.70	15.35	1	25	Right	5	0.007	0.007	1.365	0.010	0.007	0.010	15.90	0.007	0.004	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	-0.03	2310.00	27710	0.0	16.70	15.36	25	12	Right	5	0.135	0.069	1.361	0.184	0.094	0.115	15.90	0.153	0.096	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	0.01	2310.00	27710	0.0	16.70	15.35	1	25	Left	5	0.003	0.001	1.365	0.004	0.001	0.003	15.90	0.003	0.002	
Body	LTE Band 30	10	QPSK	2	V146U	1:1	0.08	2310.00	27710	0.0	16.70	15.36	25	12	Left	5	0.002	0.001	1.361	0.003	0.001	0.002	15.90	0.002	0.001	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-35 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.06	2310.00	27710	0.0	19.90	19.09	1	25	Back	5	0.982	0.487	1.205	1.183	0.587	0.739	19.10	0.984	0.615	A13
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.02	2310.00	27710	0.0	19.90	19.13	25	0	Back	5	0.966	0.486	1.194	1.153	0.580	0.721	19.10	0.959	0.599	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	0.00	2310.00	27710	0.0	19.90	19.06	50	0	Back	5	0.965	0.489	1.213	1.171	0.593	0.732	19.10	0.974	0.609	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.01	2310.00	27710	0.0	19.90	19.09	1	25	Top	5	0.644	0.293	1.205	0.742	0.302	0.470	19.10	0.625	0.391	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.02	2310.00	27710	0.0	19.90	19.13	25	0	Top	5	0.606	0.240	1.194	0.724	0.293	0.453	19.10	0.602	0.376	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.02	2310.00	27710	0.0	19.90	19.09	1	25	Bottom	5	0.044	0.022	1.205	0.053	0.027	0.038	19.10	0.044	0.028	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.04	2310.00	27710	0.0	19.90	19.13	25	0	Bottom	5	0.000	0.000	1.194	0.006	0.019	0.023	19.10	0.030	0.019	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.02	2310.00	27710	0.0	19.90	19.09	1	25	Right	5	0.712	0.359	1.205	0.882	0.433	0.551	19.10	0.734	0.459	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.06	2310.00	27710	0.0	19.90	19.13	25	0	Right	5	0.719	0.354	1.194	0.858	0.423	0.536	19.10	0.716	0.446	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	-0.01	2310.00	27710	0.0	19.90	19.06	50	0	Right	5	0.719	0.354	1.213	0.872	0.409	0.545	19.10	0.725	0.451	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	0.05	2310.00	27710	0.0	19.90	19.09	1	25	Left	5	0.006	0.003	1.205	0.007	0.004	0.004	19.10	0.006	0.004	
Body	LTE Band 30	10	QPSK	3a	R27C0	1:1	0.03	2310.00	27710	0.0	19.90	19.13	25	0	Left	5	0.008	0.004	1.194	0.010	0.005	0.006	19.10	0.008	0.005	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Body										
Spatial Peak																1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 10-36 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 Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio [1g SAR]	Plot #
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	-0.14	2310.00	27710	0.0	19.00	17.56	1	25	Back	5	0.698	0.359	1.393	0.585	0.500	0.599	18.30	0.816	0.509	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	-0.01	2310.00	27710	0.0	19.00	17.42	25	0	Back	5	0.691	0.360	1.439	0.984	0.518	0.621	18.30	0.846	0.529	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	-0.02	2310.00	27710	0.0	19.00	17.40	50	0	Back	5	0.672	0.352	1.445	0.970	0.509	0.606	18.30	0.826	0.516	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.02	2310.00	27710	0.0	19.00	17.40	25	0	Top	5	0.710	0.345	1.393	1.073	0.481	0.571	18.30	0.713	0.471	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.02	2310.00	27710	0.0	19.00	17.42	50	0	Top	5	0.810	0.361	1.439	1.166	0.519	0.729	18.30	0.992	0.620	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.00	2310.00	27710	0.0	19.00	17.40	50	0	Top	5	0.794	0.366	1.445	1.147	0.514	0.717	18.30	0.976	0.610	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.07	2310.00	27710	0.0	19.00	17.66	25	0	Bottom	5	0.810	0.361	1.439	1.166	0.519	0.729	18.30	0.992	0.620	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.06	2310.00	27710	0.0	19.00	17.42	25	0	Bottom	5	0.024	0.011	0.439	0.033	0.016	0.022	18.30	0.030	0.019	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.08	2310.00	27710	0.0	19.00	17.42	25	0	Right	5	0.000	0.000	1.393	0.000	0.000	0.000	18.30	0.000	0.000	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.07	2310.00	27710	0.0	19.00	17.42	25	0	Left	5	0.000	0.000	1.393	0.000	0.000	0.000	18.30	0.000	0.000	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.07	2310.00	27710	0.0	19.00	17.56	1	25	Left	5	0.423	0.218	1.393	0.189	0.304	0.368	18.30	0.501	0.313	
Body	LTE Band 30	10	QPSK	4	9W3J8	1:1	0.07	2310.00	27710	0.0	19.00	17.41	25	0	Left	5	0.431	0.222	1.439	0.430	0.319	0.388	18.30	0.518	0.330	
ANU/IEEE C94.1-1992 - SAFETY LIMIT																1.6 W/kg (max) averaged over 1 gram										
Spatial Peak																Body										
Uncontrolled Exposure/General Population																Uncontrolled Exposure/General Population										

10.14 LTE Band 7 Standalone SAR

Table 10-37 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 [g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.07	2510.00	20850	0.0	20.20	19.57	1	50	Back	5	0.889	0.369	1.156	1.028	0.427	0.643	15.50	0.875	0.547	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.03	2535.00	21100	0.0	20.20	19.53	1	50	Back	5	0.846	0.351	1.187	0.987	0.410	0.617	15.50	0.840	0.525	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.01	2560.00	21350	0.0	20.20	19.27	1	50	Back	5	0.817	0.327	1.229	1.012	0.418	0.623	15.50	0.861	0.538	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.01	2510.00	20850	0.0	20.20	19.57	50	50	Back	5	0.830	0.346	1.156	0.959	0.400	0.599	15.50	0.816	0.510	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.00	2535.00	21100	0.0	20.20	19.32	50	50	Back	5	0.805	0.334	1.169	0.941	0.390	0.588	15.50	0.801	0.501	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.04	2560.00	21350	0.0	20.20	19.50	50	50	Back	5	0.845	0.343	1.175	0.993	0.403	0.621	15.50	0.845	0.528	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.02	2510.00	20850	0.0	20.20	19.56	100	0	Back	5	0.855	0.356	1.159	0.991	0.413	0.619	15.50	0.843	0.527	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.09	2510.00	20850	0.0	20.20	19.57	1	50	Top	5	0.004	0.000	1.156	0.005	0.000	0.001	15.50	0.004	0.001	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.11	2510.00	20850	0.0	20.20	19.32	100	0	Top	5	0.003	0.000	1.156	0.003	0.000	0.000	15.50	0.003	0.001	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.02	2510.00	20850	0.0	20.20	19.57	1	50	Bottom	5	0.979	0.451	1.156	1.132	0.521	0.708	15.50	0.963	0.602	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.01	2535.00	21100	0.0	20.20	19.53	1	50	Bottom	5	0.943	0.439	1.187	1.100	0.512	0.686	15.50	0.936	0.585	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.00	2560.00	21350	0.0	20.20	19.27	1	50	Bottom	5	0.900	0.418	1.239	1.115	0.518	0.697	15.50	0.949	0.593	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.01	2510.00	20850	0.0	20.20	19.57	50	50	Bottom	5	0.996	0.460	1.156	1.151	0.532	0.719	15.50	0.980	0.613	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.00	2535.00	21100	0.0	20.20	19.32	50	50	Bottom	5	0.958	0.445	1.169	1.120	0.520	0.700	15.50	0.953	0.596	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.02	2560.00	21350	0.0	20.20	19.50	50	50	Bottom	5	0.928	0.428	1.175	1.090	0.503	0.681	15.50	0.928	0.580	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.02	2510.00	20850	0.0	20.20	19.56	100	0	Bottom	5	0.975	0.447	1.159	1.130	0.518	0.706	15.50	0.962	0.603	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.00	2535.00	21100	0.0	20.20	19.32	1	50	Right	5	0.007	0.000	1.156	0.006	0.001	0.005	15.50	0.007	0.004	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.06	2510.00	20850	0.0	20.20	19.57	1	50	Right	5	0.005	0.002	1.156	0.006	0.002	0.004	15.50	0.005	0.003	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.12	2510.00	20850	0.0	20.20	19.57	1	50	Left	5	0.052	0.020	1.156	0.060	0.034	0.058	15.50	0.051	0.032	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	-0.04	2510.00	20850	0.0	20.20	19.57	50	50	Left	5	0.035	0.009	1.156	0.061	0.035	0.059	15.50	0.052	0.034	
Body	LTE Band 7	20	QPSK	1b	9WJLR	1:1	0.00	2510.00	20850	0.0	20.20	19.28	50	0	Bottom	5	0.942	0.429	1.236	1.164	0.530	0.728	15.50	0.991	0.619	
ANSI/IEEE C63.1982 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) Spatial Peak Uncontrolled Exposure/General Population averaged over 1 gram										

Table 10-38 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 [g SAR]	Simultaneous Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.05	2510.00	20850	0.0	19.00	18.29	1	50	Back	5	0.930	0.487	1.178	1.096	0.574	0.685	18.30	0.933	0.583	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.02	2535.00	21100	0.0	19.00	18.36	1	50	Back	5	0.880	0.463	1.159	1.020	0.537	0.638	18.30	0.880	0.543	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.02	2560.00	21350	0.0	19.00	18.23	1	50	Back	5	0.851	0.448	1.194	1.016	0.535	0.635	18.30	0.865	0.541	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.07	2510.00	20850	0.0	19.00	18.31	50	50	Back	5	1.000	0.523	1.172	1.172	0.611	0.731	18.30	0.998	0.624	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.00	2535.00	21100	0.0	19.00	18.44	50	50	Back	5	0.936	0.475	1.138	1.031	0.541	0.644	18.30	0.978	0.549	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.03	2560.00	21350	0.0	19.00	18.28	50	50	Back	5	0.871	0.450	1.180	1.028	0.538	0.643	18.30	0.875	0.547	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.01	2560.00	21350	0.0	19.00	18.32	100	0	Back	5	0.884	0.465	1.169	1.033	0.544	0.646	18.30	0.879	0.549	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.11	2535.00	21100	0.0	19.00	18.36	1	50	Top	5	0.003	0.017	1.139	0.038	0.020	0.024	18.30	0.032	0.020	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.18	2535.00	21100	0.0	19.00	18.44	50	50	Top	5	0.033	0.017	1.138	0.038	0.019	0.034	18.30	0.032	0.020	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.02	2535.00	21100	0.0	19.00	18.36	1	50	Bottom	5	0.474	0.200	1.159	0.449	0.232	0.343	18.30	0.467	0.292	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.01	2560.00	21350	0.0	19.00	18.44	50	50	Bottom	5	0.461	0.200	1.184	0.435	0.221	0.328	18.30	0.447	0.275	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.01	2510.00	20850	0.0	19.00	18.29	1	50	Right	5	0.783	0.376	1.178	0.822	0.443	0.576	18.30	0.785	0.491	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.03	2535.00	21100	0.0	19.00	18.36	1	50	Right	5	0.820	0.393	1.159	0.950	0.455	0.594	18.30	0.809	0.506	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.00	2560.00	21350	0.0	19.00	18.32	100	0	Right	5	0.767	0.360	1.187	0.847	0.457	0.587	18.30	0.772	0.485	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.00	2510.00	20850	0.0	19.00	18.31	50	50	Right	5	0.798	0.383	1.172	0.935	0.449	0.584	18.30	0.796	0.498	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	-0.01	2535.00	21100	0.0	19.00	18.44	50	50	Right	5	0.838	0.408	1.138	0.954	0.454	0.596	18.30	0.812	0.508	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.00	2560.00	21350	0.0	19.00	18.28	50	50	Right	5	0.785	0.377	1.180	0.945	0.445	0.564	18.30	0.789	0.481	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.01	2560.00	21350	0.0	19.00	18.32	100	0	Right	5	0.799	0.391	1.169	0.934	0.457	0.584	18.30	0.795	0.497	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.03	2535.00	21100	0.0	19.00	18.36	1	50	Left	5	0.007	0.003	1.159	0.008	0.003	0.005	18.30	0.007	0.004	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.07	2515.00	21100	0.0	19.00	18.44	50	50	Left	5	0.016	0.007	1.138	0.018	0.008	0.011	18.30	0.015	0.009	
Body	LTE Band 7	20	QPSK	2	F2227	1:1	0.01	2510.00	20850	0.0	19.00	17.89	50	50	Back	5	0.878	0.462	1.291	1.133	0.596	0.708	18.30	0.964	0.603	
ANSI/IEEE C63.1982 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) Spatial Peak Uncontrolled Exposure/General Population averaged over 1 gram										

Table 10-39 Antenna 3a

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 7	20	QPSK	3a	9WJLR	1:1	-0.01	2510.00	20850	0.0	19.80	19.10	1	50	Back	5	0.919	0.466	1.175	1.127	0.548	0.704	19.00	0.917	0.586	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.26	1	50	Back	5	0.878	0.443	1.186	1.076	0.536	0.721	19.00	0.947	0.590	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.08	2535.00	21100	0.0	19.80	19.01	1	89	Back	5	0.905	0.468	1.194	1.152	0.559	0.720	19.00	0.918	0.599	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.24	1	50	Back	5	1.000	0.583	1.138	1.146	0.583	0.740	19.00	0.985	0.601	A14
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2560.00	21350	0.0	19.80	19.03	1	50	Back	5	0.967	0.470	1.194	1.155	0.561	0.722	19.00	0.961	0.601	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2510.00	20850	0.0	19.80	19.08	50	0	Right	5	0.954	0.463	1.180	1.126	0.546	0.704	19.00	0.917	0.586	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.10	50	0	Back	5	0.909	0.470	1.159	1.055	0.524	0.724	19.00	0.963	0.602	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	0.01	2560.00	21350	0.0	19.80	19.12	50	0	Back	5	0.936	0.453	1.167	1.092	0.529	0.688	19.00	0.938	0.568	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.04	2560.00	21350	0.0	19.80	19.10	50	0	Back	5	0.926	0.475	1.175	1.147	0.528	0.712	19.00	0.954	0.589	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.10	50	0	Back	5	0.905	0.470	1.159	1.048	0.524	0.725	19.00	0.956	0.590	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	0.01	2635.00	21100	0.0	19.80	19.16	50	0	Top	5	0.925	0.267	1.159	0.600	0.288	0.431	19.00	0.874	0.359	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.08	50	0	Bottom	5	0.918	0.463	1.180	1.092	0.529	0.688	19.00	0.938	0.568	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	0.01	2535.00	21100	0.0	19.80	19.16	50	0	Bottom	5	0.924	0.011	1.159	0.628	0.013	0.018	19.00	0.023	0.014	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	0.03	2510.00	20850	0.0	19.80	19.10	1	50	Right	5	0.604	0.334	1.175	0.815	0.392	0.508	19.00	0.673	0.424	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.10	1	50	Right	5	0.748	0.334	1.175	0.815	0.392	0.508	19.00	0.673	0.424	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.11	2560.00	21350	0.0	19.80	19.03	1	50	Right	5	0.764	0.364	1.194	0.812	0.435	0.536	19.00	0.759	0.474	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	0.01	2510.00	20850	0.0	19.80	19.08	50	0	Right	5	0.699	0.335	1.180	0.825	0.395	0.536	19.00	0.689	0.429	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.10	50	0	Right	5	0.748	0.334	1.175	0.812	0.435	0.536	19.00	0.759	0.474	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2560.00	21350	0.0	19.80	19.13	50	0	Right	5	0.744	0.319	1.167	0.888	0.419	0.543	19.00	0.722	0.451	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.04	2560.00	21350	0.0	19.80	19.10	50	0	Right	5	0.703	0.367	1.175	0.807	0.431	0.541	19.00	0.746	0.466	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.02	2535.00	21100	0.0	19.80	19.10	50	0	Right	5	0.748	0.334	1.175	0.812	0.435	0.536	19.00	0.759	0.474	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	0.01	2535.00	21100	0.0	19.80	19.16	50	0	Left	5	0.906	0.002	1.159	0.007	0.002	0.004	19.00	0.006	0.004	
Body	LTE Band 7	20	QPSK	3a	9WJLR	1:1	-0.03	2535.00	21100	0.0	19.80	18.48	1	89	Back	5	0.829	0.401	1.355	1.123	0.543	0.702	19.00	0.934	0.584	
ANSI/IEEE C63.1992 - SAFETY LIMIT																Body										
Special Peak																1.4 W/kg (w/m²)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

10.15 LTE Band 41 Standalone SAR

Table 10-41 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 Exposure Ratio (1g SAR)	Plot #
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.02	2506.00	39750	0.0	22.10	21.28	1	50	Back	5	0.862	0.342	1.208	1.041	0.413	0.651	21.30	0.866	0.541	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.01	2549.50	40185	0.0	22.10	21.33	1	50	Back	5	0.739	0.304	1.194	0.882	0.363	0.551	21.30	0.734	0.459	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.02	2593.00	40620	0.0	22.10	21.44	1	50	Back	5	0.794	0.317	1.164	0.913	0.369	0.571	21.30	0.759	0.474	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.04	2506.00	39750	0.0	22.10	21.27	50	25	Back	5	0.810	0.322	1.211	0.981	0.390	0.613	21.30	0.816	0.510	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.01	2549.50	40185	0.0	22.10	21.33	50	25	Back	5	0.758	0.307	1.194	0.905	0.367	0.566	21.30	0.733	0.471	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.01	2593.00	40620	0.0	22.10	21.50	50	25	Back	5	0.779	0.315	1.148	0.894	0.362	0.559	21.30	0.744	0.465	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.03	2506.00	39750	0.0	22.10	21.28	1	50	Bottom	5	0.914	0.429	1.208	1.152	0.518	0.720	21.30	0.958	0.598	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.00	2549.50	40185	0.0	22.10	21.31	1	50	Bottom	5	0.880	0.398	1.194	1.063	0.475	0.664	21.30	0.884	0.533	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.00	2593.00	40620	0.0	22.10	21.44	1	50	Bottom	5	0.845	0.421	1.164	1.000	0.478	0.688	21.30	0.915	0.572	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.01	2506.00	39750	0.0	22.10	21.27	50	25	Bottom	5	0.919	0.430	1.211	1.161	0.521	0.726	21.30	0.966	0.604	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.01	2549.50	40185	0.0	22.10	21.33	50	25	Bottom	5	0.904	0.403	1.194	1.079	0.481	0.674	21.30	0.897	0.561	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.02	2593.00	40620	0.0	22.10	21.50	50	25	Bottom	5	0.930	0.434	1.148	1.048	0.475	0.668	21.30	0.988	0.555	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.06	2636.50	41055	0.0	23.00	22.26	1	50	Back	5	0.975	0.386	1.186	1.156	0.458	0.723	22.20	0.962	0.601	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.00	2680.00	41490	0.0	23.00	22.39	1	50	Back	5	0.914	0.360	1.151	1.052	0.414	0.659	22.20	0.875	0.547	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.00	2636.50	41055	0.0	23.00	22.30	50	25	Back	5	0.969	0.381	1.175	1.139	0.448	0.712	22.20	0.947	0.592	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.01	2680.00	41490	0.0	23.00	22.38	50	25	Back	5	0.917	0.360	1.153	1.057	0.415	0.661	22.20	0.879	0.549	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.00	2680.00	41490	0.0	23.00	22.37	100	0	Back	5	0.929	0.361	1.156	1.062	0.417	0.664	22.20	0.883	0.552	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.03	2680.00	41490	0.0	23.00	22.39	1	50	Top	5	0.900	0.360	1.151	0.900	0.400	0.600	22.20	0.900	0.500	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.06	2680.00	41490	0.0	23.00	22.38	50	25	Top	5	0.900	0.360	1.153	0.900	0.400	0.600	22.20	0.900	0.500	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.00	2636.50	41055	0.0	23.00	22.26	1	50	Bottom	5	0.921	0.344	1.166	1.175	0.523	0.724	22.20	0.977	0.611	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.02	2636.50	41055	0.0	23.00	22.00	1	50	Bottom	5	0.891	0.358	1.209	1.122	0.486	0.701	22.20	0.933	0.583	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:2.31	0.01	2636.50	41055	0.0	24.60	21.90	1	50	Bottom	5	0.981	0.427	1.175	1.153	0.502	0.721	23.80	0.999	0.599	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:2.31	0.00	2680.00	41490	0.0	24.60	22.38	1	50	Bottom	5	0.915	0.398	1.213	1.110	0.483	0.698	23.80	0.933	0.577	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.06	2680.00	41490	0.0	23.00	22.39	1	50	Bottom	5	0.996	0.438	1.151	1.146	0.479	0.716	22.20	0.953	0.596	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.02	2636.50	41055	0.0	23.00	22.30	50	25	Bottom	5	0.991	0.438	1.175	1.144	0.515	0.728	22.20	0.968	0.605	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.01	2680.00	41490	0.0	23.00	22.38	50	25	Bottom	5	0.943	0.410	1.153	1.043	0.493	0.677	22.20	0.957	0.598	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.01	2680.00	41490	0.0	23.00	22.37	100	0	Bottom	5	1.010	0.424	1.156	1.148	0.490	0.730	22.20	0.972	0.608	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.06	2680.00	41490	0.0	23.00	22.38	100	0	Bottom	5	0.916	0.406	1.148	1.046	0.499	0.726	22.20	0.945	0.597	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.01	2680.00	41490	0.0	23.00	22.38	50	25	Right	5	0.911	0.407	1.153	0.911	0.407	0.611	22.20	0.911	0.511	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.19	2680.00	41490	0.0	23.00	22.39	1	50	Left	5	0.917	0.407	1.153	0.917	0.407	0.611	22.20	0.917	0.511	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	-0.01	2680.00	41490	0.0	23.00	22.38	50	25	Left	5	0.917	0.407	1.153	0.917	0.407	0.611	22.20	0.917	0.511	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:1.58	0.02	2636.50	41055	0.0	23.00	21.87	1	50	Bottom	5	0.841	0.370	1.297	1.091	0.480	0.682	22.20	0.907	0.567	
Body	LTE Band 41	20	QPSK	1b	H4C66	1:2.31	0.03	2636.50	41253	0.0	24.60	21.87	1	0	Bottom	5	0.873	0.384	1.245	1.087	0.478	0.679	23.80	0.904	0.565	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																										
1.6 W/kg (mW/g) Body averaged over 1 gram																										

Note: Blue entry represents variability measurement

Note: Green entry represents HPUE measurement.

Table 10-42 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	F2227	1:1.58	0.00	2506.00	39750	0.0	21.50	20.55	1	50	Back	5	0.866	0.463	1.245	1.178	0.601	0.738	20.70	0.980	0.613	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.04	2506.00	39750	0.0	21.50	20.49	1	50	Back	5	0.892	0.460	1.262	1.126	0.581	0.704	20.70	0.937	0.586	
Body	LTE Band 41	20	QPSK	2	F2227	1:2.31	0.01	2506.00	39750	0.0	23.10	21.18	1	50	Back	5	0.966	0.490	1.236	1.194	0.606	0.746	22.30	0.993	0.621	
Body	LTE Band 41	20	QPSK	2	F2227	1:2.31	0.00	2506.00	39750	0.0	23.10	21.50	1	50	Back	5	0.869	0.447	1.318	1.144	0.589	0.728	22.30	0.952	0.595	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.03	2549.50	40185	0.0	21.50	20.68	1	50	Back	5	0.871	0.451	1.208	1.052	0.545	0.658	20.70	0.875	0.547	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.00	2593.00	40620	0.0	21.50	20.71	1	50	Back	5	0.817	0.418	1.199	0.980	0.501	0.613	20.70	0.815	0.509	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2593.00	40620	0.0	21.50	20.79	50	0	Back	5	0.863	0.440	1.199	1.132	0.577	0.708	20.70	0.942	0.589	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.01	2549.50	40185	0.0	21.50	20.76	50	0	Back	5	0.895	0.464	1.186	1.061	0.550	0.663	20.70	0.883	0.552	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.02	2593.00	40620	0.0	21.50	20.83	50	0	Back	5	0.831	0.427	1.187	0.970	0.498	0.606	20.70	0.807	0.504	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2593.00	40620	0.0	21.50	20.70	100	0	Back	5	0.836	0.423	1.193	1.005	0.508	0.628	20.70	0.836	0.511	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.09	2593.00	40620	0.0	21.50	20.71	1	50	Top	5	0.940	0.491	1.189	0.948	0.505	0.630	20.70	0.940	0.605	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.10	2593.00	40620	0.0	21.50	20.81	50	0	Top	5	0.900	0.493	1.187	0.947	0.505	0.629	20.70	0.939	0.604	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2593.00	40620	0.0	21.50	20.71	1	50	Bottom	5	0.875	0.436	1.199	0.940	0.495	0.581	20.70	0.914	0.524	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.01	2593.00	40620	0.0	21.50	20.76	50	0	Bottom	5	0.931	0.455	1.186	0.933	0.514	0.623	20.70	0.936	0.603	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2506.00	39750	0.0	21.50	20.55	1	50	Right	5	0.799	0.362	1.245	0.920	0.451	0.575	20.70	0.765	0.478	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.00	2549.50	40185	0.0	21.50	20.68	1	50	Right	5	0.731	0.296	1.208	0.883	0.450	0.552	20.70	0.734	0.459	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2593.00	40620	0.0	21.50	20.79	50	0	Right	5	0.811	0.380	1.199	0.948	0.513	0.631	20.70	0.799	0.443	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.00	2506.00	39750	0.0	21.50	20.70	50	0	Right	5	0.725	0.305	1.189	0.862	0.422	0.539	20.70	0.717	0.448	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.09	2593.00	40620	0.0	21.50	20.71	1	50	Right	5	0.735	0.308	1.189	0.862	0.422	0.539	20.70	0.725	0.451	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2593.00	40620	0.0	21.50	20.83	50	0	Right	5	0.766	0.347	1.187	0.836	0.405	0.523	20.70	0.695	0.434	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.02	2593.00	40620	0.0	21.50	20.70	100	0	Right	5	0.714	0.346	1.202	0.858	0.415	0.536	20.70	0.714	0.446	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.08	2593.00	40620	0.0	21.50	20.71	1	50	Left	5	0.804	0.402	1.199	0.908	0.451	0.536	20.70	0.804	0.001	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2593.00	40620	0.0	21.50	20.83	50	0	Left	5	0.804	0.401	1.187	0.905	0.450	0.536	20.70	0.804	0.001	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.03	2636.50	41053	0.0	24.10	20.51	1	50	Back	5	0.908	0.467	1.227	1.175	0.573	0.734	20.70	0.977	0.611	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.01	2680.00	41490	0.0	24.10	20.71	1	50	Back	5	0.874	0.468	1.172	1.156	0.568	0.728	20.70	0.968	0.605	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.01	2636.50	41053	0.0	24.10	20.61	50	0	Back	5	0.968	0.471	1.161	1.161	0.565	0.726	22.30	0.966	0.603	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2680.00	41490	0.0	24.10	20.51	1	50	Back	5	0.893	0.462	1.183	1.183	0.570	0.727	20.70	0.967	0.604	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2636.50	41053	0.0	24.10	20.61	50	0	Right	5	0.973	0.320	1.227	0.826	0.489	0.568	20.60	0.887	0.429	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.00	2680.00	41490	0.0	24.10	20.71	1	50	Right	5	0.874	0.468	1.172	1.156	0.568	0.728	20.70	0.968	0.605	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2636.50	41053	0.0	24.10	20.61	50	0	Right	5	0.976	0.322	1.199	0.811	0.386	0.507	20.60	0.875	0.422	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	-0.01	2606.00	41490	0.0	24.10	20.67	50	0	Right	5	0.956	0.357	1.183	0.897	0.422	0.561	20.60	0.746	0.466	
Body	LTE Band 41	20	QPSK	2	F2227	1:1.58	0.00	2506.00	39750	0.0	21.50	20.55	1	50	Back	5	0.866	0.463	1.245	1.178	0.601	0.738	20.70	0.980	0.613	
Body	LTE Band 41	20	QPSK	2	F2227	1:2.31	0.01	2506.00	39750	0.0	23.10	21.18	1	50	Back	5	0.869	0.447	1.318	1.144	0.589	0.728	22.30	0.952	0.595	
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Table 10-43 Antenna 3a

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 [SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [SAR]	Plot #
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2506.00	39750	0.0	22.30	21.55	1	50	Back	5	0.896	0.415	1.189	1.065	0.493	0.666	21.50	0.886	0.554	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2549.50	40185	0.0	22.30	21.60	1	50	Back	5	0.911	0.412	1.175	1.094	0.484	0.684	21.50	0.910	0.569	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2593.00	40620	0.0	22.30	21.44	1	50	Back	5	0.960	0.425	1.219	1.170	0.513	0.731	21.50	0.973	0.608	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2506.00	39750	0.0	22.30	21.61	50	25	Back	5	0.855	0.379	1.172	1.002	0.444	0.625	21.50	0.833	0.521	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2549.50	40185	0.0	22.30	21.63	50	25	Back	5	0.916	0.402	1.167	1.069	0.469	0.668	21.50	0.889	0.556	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.02	2593.00	40620	0.0	22.30	21.38	50	25	Back	5	0.897	0.413	1.236	1.158	0.508	0.724	21.50	0.963	0.602	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2549.50	40185	0.0	22.30	21.57	100	0	Back	5	0.950	0.408	1.183	1.095	0.483	0.684	21.50	0.911	0.569	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2506.00	39750	0.0	22.30	21.55	1	50	Top	5	0.463	0.185	1.189	0.533	0.220	0.346	21.50	0.440	0.288	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2549.50	40185	0.0	22.30	21.60	1	50	Top	5	0.462	0.185	1.175	0.519	0.213	0.324	21.50	0.432	0.270	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.06	2593.00	40620	0.0	22.30	21.44	1	50	Top	5	0.509	0.206	1.219	0.620	0.251	0.388	21.50	0.516	0.323	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2506.00	39750	0.0	22.30	21.61	50	25	Top	5	0.471	0.187	1.172	0.532	0.219	0.345	21.50	0.459	0.287	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2549.50	40185	0.0	22.30	21.63	50	25	Top	5	0.468	0.188	1.167	0.533	0.215	0.327	21.50	0.483	0.272	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.03	2593.00	40620	0.0	22.30	21.38	50	25	Top	5	0.505	0.204	1.236	0.624	0.252	0.390	21.50	0.519	0.324	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.02	2506.00	39750	0.0	22.30	21.55	1	50	Right	5	0.620	0.284	1.187	0.737	0.318	0.461	21.50	0.613	0.383	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2549.50	40185	0.0	22.30	21.60	1	50	Right	5	0.751	0.346	1.175	0.882	0.407	0.551	21.50	0.714	0.450	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2593.00	40620	0.0	22.30	21.44	1	50	Right	5	0.758	0.342	1.219	0.824	0.417	0.578	21.50	0.769	0.481	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2506.00	39750	0.0	22.30	21.61	50	25	Right	5	0.620	0.284	1.172	0.727	0.313	0.454	21.50	0.605	0.378	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2549.50	40185	0.0	22.30	21.63	50	25	Right	5	0.747	0.343	1.167	0.872	0.400	0.545	21.50	0.725	0.453	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2593.00	40620	0.0	22.30	21.38	50	25	Right	5	0.725	0.325	1.236	0.886	0.402	0.560	21.50	0.745	0.466	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.02	2549.50	40185	0.0	22.30	21.57	100	0	Right	5	0.747	0.344	1.183	0.884	0.407	0.553	21.50	0.735	0.459	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2636.50	41055	0.0	22.30	21.52	1	50	Back	5	0.917	0.418	1.253	1.174	0.524	0.724	22.50	0.976	0.600	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.02	2636.50	41055	0.0	24.50	21.77	1	50	Back	5	0.918	0.417	1.287	1.241	0.541	0.744	22.50	0.991	0.619	
Body	LTE Band 41	20	QPSK	3a	TC03	1:2.31	-0.02	2636.50	41055	0.0	24.50	22.73	1	50	Back	5	1.000	0.454	1.183	1.183	0.537	0.739	22.50	1.084	0.615	
Body	LTE Band 41	20	QPSK	3a	TC03	1:2.31	0.00	2636.50	41055	0.0	24.50	21.42	1	89	Back	5	0.911	0.409	1.282	1.181	0.537	0.738	22.50	0.984	0.614	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.02	2680.00	41490	0.0	22.90	22.06	1	50	Back	5	0.948	0.374	1.213	1.029	0.454	0.643	22.50	0.856	0.535	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2636.50	41055	0.0	22.90	22.00	50	25	Back	5	0.923	0.411	1.230	1.133	0.506	0.708	22.50	0.942	0.589	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2680.00	41490	0.0	22.90	22.19	50	25	Back	5	0.966	0.383	1.222	1.058	0.468	0.661	22.50	0.980	0.550	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.02	2680.00	41490	0.0	22.90	22.02	100	0	Back	5	0.897	0.396	1.225	1.099	0.485	0.687	22.50	0.914	0.571	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2636.50	41055	0.0	22.90	22.01	1	50	Top	5	0.944	0.220	1.253	0.682	0.276	0.426	22.50	0.947	0.534	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.02	2680.00	41490	0.0	22.90	22.19	1	50	Top	5	0.915	0.209	1.231	0.675	0.254	0.393	22.50	0.910	0.503	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.02	2636.50	41055	0.0	22.90	22.03	50	25	Top	5	0.918	0.218	1.230	0.662	0.268	0.414	22.50	0.931	0.544	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.03	2680.00	41490	0.0	22.90	22.08	1	50	Top	5	0.902	0.205	1.222	0.613	0.251	0.383	22.50	0.910	0.519	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.01	2680.00	41490	0.0	22.90	22.06	1	50	Bottom	5	0.900	0.190	1.231	0.604	0.242	0.365	22.50	0.900	0.511	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.07	2680.00	41490	0.0	22.90	22.03	50	25	Bottom	5	0.919	0.011	1.222	0.033	0.013	0.054	22.50	0.919	0.012	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.02	2636.50	41055	0.0	22.90	21.92	1	50	Right	5	0.895	0.351	1.253	1.009	0.447	0.631	22.50	0.899	0.524	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.01	2680.00	41490	0.0	22.90	22.08	1	50	Right	5	0.929	0.335	1.189	0.881	0.382	0.551	22.50	0.733	0.458	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2636.50	41055	0.0	22.90	22.00	50	25	Right	5	0.786	0.349	1.230	0.967	0.429	0.604	22.50	0.804	0.503	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.02	2680.00	41490	0.0	22.90	22.00	100	0	Right	5	0.891	0.348	1.225	0.964	0.431	0.604	22.50	0.810	0.470	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.00	2680.00	41490	0.0	22.90	22.02	100	0	Right	5	0.758	0.327	1.225	0.929	0.401	0.581	22.50	0.775	0.483	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	0.03	2680.00	41490	0.0	22.90	22.06	1	50	Left	5	0.911	0.003	1.213	0.033	0.001	0.008	22.50	0.911	0.007	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.02	2680.00	41490	0.0	22.90	22.06	1	50	Left	5	0.912	0.004	1.225	0.035	0.002	0.009	22.50	0.912	0.007	
Body	LTE Band 41	20	QPSK	3a	TC03	1:1.58	-0.03	2636.50	41253	0.0	24.50	21.70	1	50	Back	5	0.897	0.398	1.138	1.182	0.525	0.739	22.50	0.983	0.614	
Body	LTE Band 41	20	QPSK	3a	TC03	1:2.31	-0.02	2636.50	41055	0.0	24.50	21.47	1	50	Back	5	0.932	0.436	1.268	1.182	0.527	0.739	23.50	0.983	0.614	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body 1.6 W/kg (avg) over 1 gram									
Special Peak																										
Uncontrolled Exposure/General Population																										

Note: Green entry represents HPUE measurement.

Table 10-44 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]	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 [SAR]	Simultaneous Turn-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [SAR]	Plot #	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2506.00	39750	0.0	19.20	18.19	1	50	Back	5	0.735	0.341	1.151	0.846	0.392	0.529	18.40	0.704	0.440		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.02	2549.50	40185	0.0	19.20	18.49	1	50	Back	5	0.641	0.295	1.178	0.755	0.348	0.477	18.40	0.628	0.393		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.04	2593.00	40620	0	19.20	18.45	1	50	Back	5	0.536	0.247	1.189	0.637	0.294	0.398	18.40	0.300	0.331		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2526.00	39750	0.0	19.20	18.60	50	25	Back	5	0.723	0.333	1.148	0.830	0.385	0.530	18.40	0.690	0.431		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2549.50	40185	0.0	19.20	18.49	1	50	Back	5	0.641	0.295	1.178	0.755	0.348	0.477	18.40	0.628	0.393		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2593.00	40620	0	19.20	18.50	50	25	Back	5	0.533	0.244	1.175	0.626	0.287	0.393	18.40	0.321	0.326		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2526.00	39750	0.0	19.20	18.60	50	25	Top	5	0.450	0.205	1.151	0.585	0.483	0.727	18.40	0.567	0.366		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.02	2549.50	40185	0.0	19.20	18.49	1	50	Top	5	0.649	0.301	1.186	0.863	0.406	0.548	18.40	0.682	0.478		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.02	2593.00	40620	0	19.20	18.45	1	50	Top	5	0.550	0.252	1.189	0.666	0.276	0.416	18.40	0.354	0.346		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2526.00	39750	0.0	19.20	18.60	50	25	Top	5	0.450	0.205	1.148	0.559	0.481	0.728	18.40	0.564	0.363		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2549.50	40185	0.0	19.20	18.49	1	50	Top	5	0.649	0.301	1.186	0.863	0.406	0.548	18.40	0.682	0.478		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2593.00	40620	0	19.20	18.50	50	25	Top	5	0.563	0.233	1.175	0.662	0.274	0.414	18.40	0.351	0.344		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2526.00	39750	0.0	19.20	18.30	1	50	Left	5	0.388	0.178	1.151	0.447	0.205	0.279	18.40	0.372	0.273		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2549.50	40185	0.0	19.20	18.49	1	50	Left	5	0.649	0.301	1.186	0.863	0.406	0.548	18.40	0.682	0.478		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2593.00	40620	0	19.20	18.45	1	50	Left	5	0.530	0.135	1.189	0.597	0.161	0.223	18.40	0.297	0.286		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2526.00	39750	0.0	19.20	18.60	50	25	Left	5	0.383	0.176	1.148	0.440	0.202	0.275	18.40	0.369	0.269		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2549.50	40185	0.0	19.20	18.50	50	25	Left	5	0.643	0.301	1.172	0.832	0.224	0.317	18.40	0.422	0.358		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.02	2593.00	40620	0	19.20	18.50	50	25	Left	5	0.302	0.137	1.175	0.355	0.161	0.222	18.40	0.295	0.184		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2636.50	41055	0.0	23.10	22.44	1	50	Back	5	0.950	0.454	1.164	1.164	0.528	0.728	23.30	0.986	0.605		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2636.50	41055	0.0	23.10	22.57	1	50	Back	5	0.786	0.400	1.164	0.862	0.400	0.562	23.30	0.800	0.578		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:2.31	0.02	2636.50	41055	0.0	24.70	23.60	1	50	Back	5	0.915	0.407	1.288	1.179	0.524	0.737	23.30	0.981	0.613		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:2.31	0.00	2636.50	41055	0.0	24.70	23.10	1	50	Back	5	0.913	0.406	1.294	1.181	0.525	0.738	23.30	0.982	0.614		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2680.00	41490	0.0	23.10	22.57	1	50	Back	5	0.850	0.375	1.143	0.949	0.479	0.593	23.30	0.789	0.493		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2636.50	41055	0.0	23.10	22.57	1	50	Back	5	0.995	0.451	1.146	1.140	0.517	0.713	23.30	0.984	0.593		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.57	50	25	Back	5	0.833	0.376	1.130	0.941	0.425	0.588	23.30	0.783	0.489		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.57	1	50	Back	5	0.985	0.449	1.146	1.082	0.488	0.688	23.30	0.983	0.595		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2636.50	41055	0.0	23.10	22.44	1	50	Top	5	0.788	0.307	1.164	0.882	0.357	0.505	22.30	0.734	0.459		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2680.00	41490	0.0	23.10	22.52	50	25	Top	5	0.539	0.214	1.143	0.616	0.245	0.385	22.30	0.512	0.320		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2636.50	41055	0.0	23.10	22.57	1	50	Top	5	0.786	0.306	1.146	0.882	0.360	0.504	22.30	0.720	0.450		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.57	50	25	Top	5	0.535	0.214	1.130	0.605	0.242	0.378	22.30	0.503	0.314		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.50	100	0	Top	5	0.541	0.215	1.148	0.621	0.247	0.388	22.30	0.517	0.323		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.57	Bottom	5	Top	5	0.541	0.215	1.148	0.621	0.247	0.388	22.30	0.517	0.323		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2680.00	41490	0.0	23.10	22.57	50	Bottom	5	Top	5	0.018	0.012	1.130	0.032	0.014	0.020	22.30	0.027	0.017	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.52	50	Right	5	Top	5	0.011	0.005	1.143	0.013	0.006	0.008	22.30	0.011	0.007	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2680.00	41490	0.0	23.10	22.57	50	Right	5	Top	5	0.011	0.005	1.143	0.013	0.006	0.008	22.30	0.011	0.007	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2636.50	41055	0.0	23.10	22.44	1	50	Left	5	0.865	0.389	1.164	1.019	0.453	0.637	22.30	0.848	0.530		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2680.00	41490	0.0	23.10	22.52	50	Left	5	Top	5	0.765	0.338	1.143	0.874	0.386	0.546	22.30	0.727	0.454	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.00	2636.50	41055	0.0	23.10	22.57	50	Left	5	Top	5	0.865	0.389	1.146	0.874	0.386	0.546	22.30	0.727	0.454	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.02	2680.00	41490	0.0	23.10	22.57	50	Left	5	Top	5	0.767	0.330	1.130	0.844	0.373	0.528	22.30	0.702	0.439	
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.02	2680.00	41490	0.0	23.10	22.50	100	0	Left	5	0.765	0.338	1.148	0.878	0.388	0.546	22.30	0.730	0.456		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:1.58	0.01	2656.30	41253	0.0	23.10	22.77	1	0	Back	5	0.954	0.456	1.211	1.131	0.504	0.707	23.30	0.941	0.588		
Body	LTE Band 41	20	QPSK	4	9VDFY	1:2.31	0.01	2636.50	41055	0.0	24.70	23.68	1	50	Back	5	0.933	0.413	1.265	1.180	0.522	0.738	23.30	0.981	0.613		
ANALYZE C615-1392 - SAFETY LIMIT																	Body										
Spatial Peak																	1.6 W/kg (m/w/g)										
Average over General Population																	Average over 1g/m										

10.16 LTE Band 48 Standalone SAR

Table 10-45 Antenna 1a

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	1a	GXY1J	1:1.58	-0.02	3560.00	55340	0.0	20.30	19.46	1	50	Back	5	0.463	0.198	1.213	0.562	0.240	0.351	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.00	3560.30	55773	0.0	20.30	19.30	1	50	Back	5	0.315	0.137	1.259	0.397	0.172	0.248	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.02	3560.00	55340	1.0	19.30	18.31	50	0	Back	5	0.380	0.164	1.256	0.477	0.306	0.298	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.01	3603.30	55773	1.0	19.30	18.15	50	0	Back	5	0.285	0.122	1.303	0.371	0.159	0.232	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.02	3560.00	55340	0.0	20.30	19.46	1	50	Left	5	0.520	0.217	1.213	0.631	0.263	0.394	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.01	3603.30	55773	0.0	20.30	19.30	1	50	Left	5	0.664	0.262	1.259	0.836	0.330	0.523	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.00	3560.00	55340	1.0	19.30	18.31	50	0	Left	5	0.440	0.181	1.256	0.553	0.227	0.346	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.02	3603.30	55773	1.0	19.30	18.15	50	0	Left	5	0.503	0.201	1.303	0.655	0.262	0.409	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.02	3646.70	56207	0.0	20.30	20.22	1	50	Back	5	0.674	0.288	1.019	0.687	0.293	0.429	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.03	3690.00	56640	0.0	20.30	20.23	1	50	Back	5	0.633	0.266	1.016	0.643	0.270	0.402	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.01	3646.70	56207	1.0	19.30	19.25	50	25	Back	5	0.456	0.202	1.012	0.461	0.204	0.288	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.01	3690.00	56640	1.0	19.30	19.26	50	25	Back	5	0.436	0.187	1.009	0.440	0.189	0.275	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.01	3690.00	56640	1.0	19.30	19.24	100	0	Back	5	0.437	0.190	1.014	0.443	0.193	0.277	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.17	3690.00	56640	0.0	20.30	20.23	1	50	Top	5	0.028	0.012	1.016	0.028	0.012	0.018	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.09	3690.00	56640	1.0	19.30	19.26	50	25	Top	5	0.027	0.011	1.009	0.027	0.011	0.017	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.00	3690.00	56640	0.0	20.30	20.23	1	50	Bottom	5	0.227	0.088	1.016	0.231	0.089	0.144	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.02	3690.00	56640	1.0	19.30	19.26	50	25	Bottom	5	0.191	0.078	1.009	0.193	0.079	0.121	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.04	3690.00	56640	0.0	20.30	20.23	1	50	Right	5	0.015	0.006	1.016	0.015	0.006	0.009	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.01	3690.00	56640	1.0	19.30	19.26	50	25	Right	5	0.008	0.003	1.009	0.008	0.003	0.005	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.01	3646.70	56207	0.0	20.30	20.22	1	50	Left	5	0.831	0.317	1.019	0.847	0.343	0.529	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.01	3646.70	56207	0.0	20.30	20.10	1	0	Left	5	0.795	0.325	1.047	0.832	0.340	0.520	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.00	3690.00	56640	0.0	20.30	20.23	1	50	Left	5	0.783	0.301	1.016	0.796	0.306	0.498	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.01	3646.70	56207	1.0	19.30	19.25	50	25	Left	5	0.608	0.246	1.012	0.615	0.249	0.384	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.05	3690.00	56640	1.0	19.30	19.26	50	25	Left	5	0.613	0.241	1.009	0.619	0.243	0.387	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	0.07	3690.00	56640	1.0	19.30	19.24	100	0	Left	5	0.606	0.239	1.014	0.614	0.242	0.384	
Body	LTE Band 48	20	QPSK	1a	GXY1J	1:1.58	-0.01	3646.70	56207	0.0	20.30	19.65	1	0	Left	5	0.689	0.324	1.161	0.800	0.376	0.500	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 10-46 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 48	20	QPSK	2	QMMJG	1:1.58	-0.01	3560.00	55340	0.0	19.30	19.28	1	50	Back	5	0.876	0.349	1.005	0.880	0.351	0.550	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.00	3603.30	55773	0.0	19.30	19.27	1	50	Back	5	0.839	0.337	1.007	0.845	0.339	0.528	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.03	3560.30	55340	1.0	18.30	18.19	50	25	Back	5	0.741	0.297	1.026	0.760	0.305	0.475	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.01	3603.30	55773	1.0	18.30	18.17	50	25	Back	5	0.713	0.291	1.030	0.734	0.300	0.459	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.08	3646.70	56207	0.0	19.30	19.23	1	0	Back	5	0.798	0.325	1.016	0.811	0.330	0.507	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.02	3646.70	56207	0.0	19.30	19.19	1	50	Back	5	0.899	0.362	1.002	0.901	0.363	0.563	A16
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.01	3690.00	56640	0.0	19.30	19.24	1	50	Back	5	0.780	0.311	1.014	0.791	0.315	0.494	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.02	3646.70	56207	1.0	18.30	18.23	50	25	Back	5	0.639	0.260	1.016	0.649	0.264	0.406	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.01	3690.00	56640	1.0	18.30	18.15	50	25	Back	5	0.562	0.230	1.035	0.582	0.238	0.364	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.01	3646.70	56207	1.0	18.30	18.21	100	0	Back	5	0.649	0.264	1.021	0.663	0.270	0.414	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.09	3646.70	56207	0.0	19.30	19.19	1	50	Top	5	0.018	0.022	1.002	0.018	0.022	0.024	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.13	3646.70	56207	1.0	18.30	18.23	50	25	Top	5	0.030	0.017	1.016	0.030	0.017	0.019	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.01	3646.70	56207	0.0	19.30	19.29	1	50	Bottom	5	0.195	0.074	1.002	0.195	0.074	0.122	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.02	3646.70	56207	1.0	18.30	18.23	50	25	Bottom	5	0.172	0.069	1.016	0.175	0.070	0.109	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.01	3646.70	56207	0.0	19.30	19.19	1	50	Right	5	0.408	0.175	1.002	0.409	0.175	0.256	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.03	3646.70	56207	1.0	18.30	18.23	50	25	Right	5	0.305	0.131	1.016	0.310	0.133	0.194	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.05	3646.70	56207	0.0	19.30	19.29	1	50	Left	5	0.003	0.001	1.002	0.003	0.001	0.002	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	0.02	3646.70	56207	1.0	18.30	18.23	50	25	Left	5	0.001	0.000	1.016	0.001	0.000	0.001	
Body	LTE Band 48	20	QPSK	2	QMMJG	1:1.58	-0.04	3646.70	56207	0.0	20.30	19.19	1	0	Left	5	0.814	0.326	1.026	0.835	0.334	0.522	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

FCC ID: BCGA3596	DUT Type: Tablet Device	RF EXPOSURE TEST REPORT	Approved by: Technical Manager
Document S/N: 1C2604030026-29.BCG-R1		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 198 of 244

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Table 10-47 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)	Plot #
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.05	3560.00	55340	0.0	21.60	20.34	1	50	Back	5	0.496	0.256	1.337	0.663	0.342	0.414	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.01	3603.30	55773	0.0	21.60	20.30	1	50	Back	5	0.454	0.233	1.349	0.612	0.314	0.383	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.01	3560.00	55340	1.0	20.60	19.29	50	25	Back	5	0.420	0.215	1.352	0.568	0.291	0.355	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.04	3603.30	55773	1.0	20.60	19.20	50	25	Back	5	0.394	0.202	1.380	0.544	0.279	0.340	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.01	3646.70	56207	0.0	21.60	20.05	1	50	Back	5	0.560	0.277	1.429	0.800	0.396	0.500	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.03	3646.70	56207	0.0	21.60	20.00	1	0	Back	5	0.493	0.249	1.445	0.712	0.360	0.445	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.02	3690.00	56640	0.0	21.60	20.36	1	50	Back	5	0.550	0.269	1.330	0.732	0.358	0.458	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.01	3646.70	56207	1.0	20.60	19.19	50	0	Back	5	0.391	0.197	1.384	0.541	0.273	0.338	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.01	3690.00	56640	1.0	20.60	19.36	50	50	Back	5	0.378	0.188	1.330	0.503	0.250	0.314	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.01	3690.00	56640	1.0	20.60	19.19	100	0	Back	5	0.384	0.192	1.384	0.531	0.266	0.332	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.05	3690.00	56640	0.0	21.60	20.36	1	50	Top	5	0.385	0.110	1.330	0.379	0.146	0.237	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	-0.02	3690.00	56640	1.0	20.60	19.36	50	50	Top	5	0.212	0.083	1.330	0.282	0.110	0.176	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.03	3690.00	56640	0.0	21.60	20.36	1	50	Bottom	5	0.010	0.003	1.330	0.013	0.004	0.008	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.08	3690.00	56640	0.0	20.60	19.36	50	50	Bottom	5	0.009	0.003	1.330	0.012	0.004	0.008	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.03	3690.00	56640	0.0	21.60	20.36	1	50	Right	5	0.012	0.005	1.330	0.016	0.007	0.010	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.05	3690.00	56640	1.0	20.60	19.36	50	50	Right	5	0.010	0.003	1.330	0.013	0.004	0.008	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.09	3690.00	56640	0.0	21.60	20.36	1	50	Left	5	0.018	0.008	1.330	0.024	0.011	0.015	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.05	3646.70	56207	1.0	20.60	19.36	50	50	Left	5	0.015	0.007	1.330	0.020	0.009	0.013	
Body	LTE Band 48	20	QPSK	3b	R27CD	1:1.58	0.03	3626.30	56009	0.0	21.60	20.01	1	0	Back	5	0.471	0.236	1.442	0.679	0.340	0.424	
ANS/IEEE C95.1 1992 - SAFETY LIMIT														Body		1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																							
Uncontrolled Exposure/General Population																							

Table 10-48 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	9W31R	1:1.58	-0.02	3560.00	55340	0.0	20.40	19.16	1	50	Back	5	0.723	0.298	1.330	0.962	0.396	0.601	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	-0.03	3603.30	55773	0.0	20.40	18.96	1	50	Back	5	0.688	0.284	1.393	0.958	0.396	0.599	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	-0.01	3560.00	55340	1.0	19.40	18.74	50	0	Back	5	0.611	0.249	1.306	0.798	0.325	0.499	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3603.30	55773	1.0	19.40	18.09	50	25	Back	5	0.586	0.239	1.352	0.792	0.323	0.495	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.02	3560.00	55340	0.0	20.40	19.16	1	50	Left	5	0.608	0.247	1.330	0.809	0.329	0.506	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3603.30	55773	0.0	20.40	18.96	1	50	Left	5	0.536	0.221	1.393	0.747	0.308	0.467	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	-0.01	3560.00	55340	1.0	19.40	18.74	50	0	Left	5	0.443	0.183	1.306	0.579	0.239	0.362	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3603.30	55773	1.0	19.40	18.09	50	25	Left	5	0.407	0.168	1.352	0.550	0.227	0.344	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	-0.01	3646.70	56207	0.0	20.40	19.25	1	50	Back	5	0.739	0.295	1.303	0.963	0.384	0.602	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.08	3646.70	56207	0.0	20.40	18.99	1	0	Back	5	0.703	0.284	1.384	0.973	0.393	0.608	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.00	3690.00	56640	0.0	20.40	19.32	1	50	Back	5	0.747	0.295	1.282	0.958	0.378	0.599	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.05	3646.70	56207	1.0	19.40	18.33	50	25	Back	5	0.586	0.239	1.279	0.749	0.306	0.468	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.03	3690.00	56640	1.0	19.40	18.47	50	25	Back	5	0.585	0.236	1.239	0.725	0.292	0.453	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.02	3690.00	56640	1.0	19.40	18.45	100	0	Back	5	0.593	0.239	1.245	0.738	0.298	0.461	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.02	3690.00	56640	0.0	20.40	19.32	1	50	Top	5	0.213	0.085	1.282	0.273	0.109	0.171	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3690.00	56640	1.0	19.40	18.47	50	25	Top	5	0.188	0.073	1.239	0.233	0.090	0.146	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.06	3690.00	56640	0.0	20.40	19.32	1	50	Bottom	5	0.033	0.019	1.282	0.042	0.024	0.026	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.04	3690.00	56640	1.0	19.40	18.47	50	25	Bottom	5	0.026	0.015	1.239	0.032	0.019	0.020	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.04	3690.00	56640	0.0	20.40	19.32	1	50	Right	5	0.011	0.003	1.282	0.014	0.004	0.009	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.06	3690.00	56640	1.0	19.40	18.47	50	25	Right	5	0.007	0.002	1.239	0.009	0.002	0.006	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3646.70	56207	0.0	20.40	19.25	1	50	Left	5	0.611	0.248	1.303	0.796	0.323	0.498	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3690.00	56640	0.0	20.40	19.32	1	50	Left	5	0.612	0.247	1.282	0.785	0.317	0.491	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3646.70	56207	1.0	19.40	18.33	50	25	Left	5	0.488	0.198	1.279	0.614	0.253	0.390	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.03	3690.00	56640	1.0	19.40	18.47	50	25	Left	5	0.488	0.195	1.239	0.605	0.242	0.378	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.00	3690.00	56640	1.0	19.40	18.45	100	0	Left	5	0.443	0.176	1.245	0.552	0.219	0.345	
Body	LTE Band 48	20	QPSK	4	9W31R	1:1.58	0.01	3646.70	56207	0.0	20.40	18.69	1	0	Back	5	0.625	0.257	1.483	0.927	0.381	0.579	
ANS/IEEE C95.1 1992 - SAFETY LIMIT														Body		1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																							
Uncontrolled Exposure/General Population																							

FCC ID: BCGA3596	DUT Type: Tablet Device	RF EXPOSURE TEST REPORT	Approved by: Technical Manager
Document S/N: 1C2604030026-29.BCG-R1		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 199 of 244

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10.17 NR Band n71 Standalone SAR

Table 10-49 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 n71	35	QPSK	3b	N7R16	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	22.10	21.17	1	186	Back	5	0.864	0.459	1.239	1.070	0.569	0.669	21.30	0.890	0.556	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	22.10	21.23	90	0	Back	5	0.971	0.509	1.232	1.088	0.610	0.742	21.30	0.967	0.617	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	22.10	21.14	180	0	Back	5	0.907	0.485	1.247	1.131	0.602	0.707	21.30	0.941	0.588	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.02	680.50	136100	CP-OFDM	0.0	22.10	21.15	1	1	Back	5	0.942	0.486	1.245	1.173	0.605	0.733	21.30	0.975	0.610	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.17	680.50	136100	DFT-s-OFDM	0.0	22.10	21.17	1	186	Top	5	0.853	0.520	1.239	0.809	0.496	0.596	21.30	0.673	0.421	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	22.10	21.23	90	0	Top	5	0.657	0.314	1.222	0.803	0.384	0.502	21.30	0.668	0.418	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	22.10	21.14	180	0	Top	5	0.829	0.396	1.247	0.784	0.394	0.480	21.30	0.652	0.408	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	22.10	21.17	1	186	Bottom	5	0.928	0.505	1.239	0.935	0.503	0.603	21.30	0.918	0.569	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	22.10	21.23	90	0	Bottom	5	0.627	0.309	1.222	0.803	0.323	0.521	21.30	0.627	0.317	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	22.10	21.17	1	186	Right	5	0.920	0.500	1.239	0.914	0.508	0.601	21.30	0.905	0.560	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	22.10	21.23	90	0	Right	5	0.677	0.340	1.222	0.904	0.356	0.509	21.30	0.678	0.349	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	22.10	21.17	1	186	Left	5	0.834	0.424	1.239	0.842	0.490	0.626	21.30	0.915	0.622	
Body	NR Band n71	35	QPSK	3b	N7R16	1:1	0.10	680.50	136100	DFT-s-OFDM	0.0	22.10	21.23	90	0	Left	5	0.638	0.320	1.222	0.806	0.332	0.529	21.30	0.638	0.324	
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 10-50 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	35	QPSK	4	V1481	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	23.90	23.45	1	186	Back	5	0.977	0.529	1.109	1.083	0.583	0.677	23.20	0.922	0.576	
Body	NR Band n71	35	QPSK	4	V1481	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	23.90	23.54	90	98	Back	5	1.090	0.548	1.086	1.119	0.595	0.699	23.20	0.912	0.595	
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.90	23.42	180	0	Back	5	1.040	0.505	1.117	1.162	0.621	0.726	23.20	0.889	0.618	
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.02	680.50	136100	CP-OFDM	0.0	23.90	23.44	1	1	Back	5	1.050	0.508	1.112	1.168	0.620	0.730	23.20	0.994	0.621	A17
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.90	23.45	1	186	Top	5	0.543	0.302	1.109	0.602	0.335	0.576	23.20	0.512	0.320	
Body	NR Band n71	35	QPSK	4	V1481	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	23.90	23.54	90	98	Top	5	0.561	0.312	1.086	0.611	0.340	0.584	23.20	0.537	0.336	
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	23.90	23.45	1	186	Bottom	5	0.651	0.322	1.109	0.654	0.324	0.621	23.20	0.629	0.328	
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	23.90	23.54	90	98	Bottom	5	0.280	0.121	1.086	0.653	0.023	0.201	23.20	0.028	0.018	
Body	NR Band n71	35	QPSK	4	V1481	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	23.90	23.45	1	186	Right	5	0.953	0.503	1.109	1.033	0.570	0.664	23.20	0.885	0.555	
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.90	23.54	90	98	Right	5	0.675	0.352	1.086	0.681	0.356	0.561	23.20	0.669	0.343	
Body	NR Band n71	35	QPSK	4	V1481	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.90	23.45	1	186	Left	5	0.932	0.496	1.099	0.919	0.506	0.614	23.20	0.908	0.585	
Body	NR Band n71	35	QPSK	4	V1481	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	23.90	23.54	90	98	Left	5	0.736	0.370	1.086	0.756	0.377	0.560	23.20	0.718	0.376	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.18 NR Band n12 Standalone SAR

Table 10-51 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 n12	15	QPSK	3b	N7R16	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	22.00	20.85	1	40	Back	5	0.851	0.467	1.303	1.109	0.582	0.693	21.30	0.884	0.590	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	22.00	20.80	36	22	Back	5	0.887	0.474	1.288	1.142	0.611	0.714	21.30	0.927	0.608	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	22.00	20.84	75	0	Back	5	0.890	0.474	1.306	1.162	0.619	0.726	21.30	0.989	0.618	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	0.01	707.50	141500	CP-OFDM	0.0	22.00	20.85	1	1	Back	5	0.877	0.469	1.309	1.141	0.614	0.713	21.30	0.973	0.607	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	22.00	20.86	1	40	Top	5	0.574	0.298	1.303	0.748	0.388	0.468	21.30	0.637	0.398	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	22.00	20.80	36	22	Top	5	0.584	0.304	1.288	0.752	0.392	0.470	21.30	0.640	0.400	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	22.00	20.85	1	40	Bottom	5	0.652	0.322	1.303	0.842	0.420	0.505	21.30	0.696	0.423	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	22.00	20.90	36	22	Bottom	5	0.653	0.322	1.288	0.843	0.420	0.507	21.30	0.697	0.423	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.11	707.50	141500	DFT-s-OFDM	0.0	22.00	20.85	1	40	Right	5	0.559	0.287	1.303	0.714	0.387	0.469	21.30	0.611	0.375	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.15	707.50	141500	DFT-s-OFDM	0.0	22.00	20.80	36	22	Right	5	0.597	0.305	1.288	0.738	0.384	0.466	21.30	0.617	0.375	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	22.00	20.85	1	40	Left	5	0.650	0.334	1.303	0.805	0.444	0.541	21.30	0.655	0.434	
Body	NR Band n12	15	QPSK	3b	N7R16	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	22.00	20.90	36	22	Left	5	0.646	0.333	1.288	0.803	0.443	0.539	21.30	0.654	0.434	
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 10-52 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 n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.35	1	40	Back	5	0.865	0.467	1.189	1.028	0.555	0.643	22.30	0.855	0.534	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.41	36	43	Back	5	0.897	0.487	1.172	1.051	0.571	0.657	22.30	0.874	0.546	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	23.10	22.34	75	0	Back	5	0.934	0.499	1.191	1.112	0.584	0.695	22.30	0.925	0.578	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.01	707.50	141500	CP-OFDM	0.0	23.10	22.33	1	1	Back	5	0.894	0.537	1.194	1.187	0.641	0.743	22.30	0.987	0.617	A18
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.35	1	40	Top	5	0.856	0.296	1.189	0.723	0.854	0.945	22.30	0.865	0.375	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.41	36	43	Top	5	0.897	0.381	1.172	0.808	0.937	1.047	22.30	0.874	0.402	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.38	75	0	Top	5	0.844	0.317	1.191	0.787	0.879	0.974	22.30	0.838	0.399	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.33	1	40	Bottom	5	0.867	0.186	1.189	0.603	0.820	0.915	22.30	0.865	0.357	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	23.10	22.41	36	43	Bottom	5	0.893	0.168	1.172	0.077	0.019	0.017	22.30	0.022	0.014	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	23.10	22.35	1	40	Right	5	0.852	0.034	1.189	0.062	0.040	0.039	22.30	0.083	0.034	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	23.10	22.41	36	43	Right	5	0.897	0.096	1.172	0.060	0.040	0.039	22.30	0.084	0.038	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	23.10	22.35	1	40	Left	5	0.185	0.180	1.189	0.240	0.120	0.138	22.30	0.183	0.103	
Body	NR Band n12	15	QPSK	4	V1481	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	23.10	22.41	36	43	Left	5	0.227	0.117	1.172	0.266	0.137	0.156	22.30	0.221	0.138	
400/1000 CEM-1 1002 SAFETY LIMIT																					Body						
Spatial Peak																					1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																					exceeded over 15min						

10.19 NR Band n14 Standalone SAR

Table 10-53 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 Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.05	793.00	158600	QFT-s-OFDM	0.0	21.60	21.16	1	25	Back	5	1.106	0.586	1.074	1.181	0.623	0.758	20.80	0.982	0.614	A10
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.02	793.00	158600	QFT-s-OFDM	0.0	21.60	21.20	25	14	Back	5	1.100	0.595	1.074	1.171	0.627	0.628	30.80	0.991	0.619	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.04	793.00	158600	QFT-s-OFDM	0.0	21.60	21.12	50	0	Back	5	1.010	0.543	1.117	1.128	0.604	0.705	20.80	0.938	0.585	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	0.02	793.00	158600	CP-OFDM	0.0	21.60	21.10	1	1	Back	5	0.987	0.521	1.122	1.095	0.585	0.678	20.80	0.900	0.564	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.05	793.00	158600	QFT-s-OFDM	0.0	21.60	21.29	1	25	Top	5	0.727	0.376	1.074	0.781	0.404	0.488	20.80	0.650	0.406	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.03	793.00	158600	QFT-s-OFDM	0.0	21.60	21.20	25	14	Top	5	0.706	0.372	1.096	0.774	0.408	0.484	20.80	0.644	0.403	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	0.02	793.00	158600	QFT-s-OFDM	0.0	21.60	21.29	1	25	Bottom	5	0.629	0.350	1.074	0.601	0.319	0.393	20.80	0.606	0.316	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	0.04	793.00	158600	QFT-s-OFDM	0.0	21.60	21.20	25	14	Bottom	5	0.627	0.319	1.096	0.600	0.320	0.319	20.80	0.603	0.316	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.05	793.00	158600	QFT-s-OFDM	0.0	21.60	21.29	1	25	Right	5	0.628	0.312	1.074	0.618	0.319	0.384	20.80	0.612	0.319	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.08	793.00	158600	QFT-s-OFDM	0.0	21.60	21.20	25	14	Right	5	0.613	0.307	1.096	0.615	0.305	0.304	20.80	0.612	0.312	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	0.19	793.00	158600	QFT-s-OFDM	0.0	21.60	21.29	1	25	Left	5	0.045	0.080	1.074	0.048	0.012	0.030	20.80	0.040	0.025	
Body	NR Band n14	10	QPSK	3b	N7R16	1:1	-0.05	793.00	158600	QFT-s-OFDM	0.0	21.60	21.20	25	14	Left	5	0.047	0.081	1.096	0.052	0.034	0.033	20.80	0.043	0.027	
ANSI/IEEE C63.19-2 - 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 10-54 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 Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.03	793.00	158600	QFT-s-OFDM	0.0	23.80	22.88	1	50	Back	5	0.934	0.534	1.236	1.154	0.460	0.721	23.00	0.960	0.600	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.03	793.00	158600	QFT-s-OFDM	0.0	23.80	22.90	25	27	Back	5	0.952	0.546	1.230	1.171	0.472	0.732	23.00	0.974	0.609	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	0.00	793.00	158600	QFT-s-OFDM	0.0	23.80	22.87	50	0	Back	5	0.960	0.539	1.239	1.189	0.467	0.743	23.00	0.989	0.618	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.04	793.00	158600	CP-OFDM	0.0	23.80	22.86	1	1	Back	5	0.960	0.502	1.242	1.086	0.486	0.745	23.00	0.991	0.619	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.06	793.00	158600	QFT-s-OFDM	0.0	23.80	22.88	1	50	Top	5	0.712	0.425	1.236	0.880	0.330	0.595	23.00	0.725	0.458	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	0.01	793.00	158600	QFT-s-OFDM	0.0	23.80	22.90	25	27	Top	5	0.701	0.412	1.230	0.862	0.307	0.539	23.00	0.717	0.448	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	0.00	793.00	158600	QFT-s-OFDM	0.0	23.80	22.87	50	0	Top	5	0.675	0.380	1.239	0.814	0.477	0.519	23.00	0.681	0.421	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.02	793.00	158600	QFT-s-OFDM	0.0	23.80	22.88	1	50	Bottom	5	0.652	0.302	1.236	0.640	0.327	0.505	23.00	0.603	0.421	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	0.13	793.00	158600	QFT-s-OFDM	0.0	23.80	22.90	25	27	Bottom	5	0.041	0.029	1.230	0.050	0.034	0.031	23.00	0.042	0.026	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.04	793.00	158600	QFT-s-OFDM	0.0	23.80	22.88	1	50	Right	5	0.085	0.167	1.236	0.105	0.070	0.066	23.00	0.087	0.045	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	0.06	793.00	158600	QFT-s-OFDM	0.0	23.80	22.88	25	27	Right	5	0.086	0.160	1.230	0.121	0.080	0.076	23.00	0.101	0.063	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.02	793.00	158600	QFT-s-OFDM	0.0	23.80	22.88	1	50	Left	5	0.268	0.148	1.236	0.319	0.183	0.208	23.00	0.274	0.171	
Body	NR Band n14	10	QPSK	4	N7R16	1:1	-0.02	793.00	158600	QFT-s-OFDM	0.0	23.80	22.90	25	27	Left	5	0.263	0.147	1.230	0.313	0.181	0.202	23.00	0.269	0.168	
ANSI/IEEE C63.19-2 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.20 NR Band n26 Standalone SAR

Table 10-55 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 Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate (1g SAR)	Plot #
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	21.50	20.84	1	53	Back	5	0.929	0.486	1.164	1.081	0.577	0.676	20.80	0.920	0.575	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.50	20.85	50	28	Back	5	0.928	0.487	1.167	1.072	0.568	0.670	20.80	0.912	0.570	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.50	20.82	100	0	Back	5	0.930	0.489	1.169	1.075	0.572	0.672	20.80	0.905	0.572	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.00	831.50	166300	CP-OFDM	0.0	21.50	20.73	1	1	Back	5	0.983	0.517	1.174	1.174	0.617	0.734	20.80	0.999	0.624	A20
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.50	20.84	1	53	Top	5	0.687	0.383	1.164	0.800	0.423	0.500	20.80	0.681	0.426	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.50	20.83	50	28	Top	5	0.682	0.359	1.167	0.796	0.419	0.488	20.80	0.678	0.424	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.50	20.82	100	0	Top	5	0.901	0.495	1.169	0.850	0.461	0.512	20.80	0.997	0.496	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	21.50	20.84	1	53	Bottom	5	0.622	0.353	1.164	0.606	0.351	0.366	20.80	0.602	0.351	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	21.50	20.83	50	28	Bottom	5	0.626	0.319	1.167	0.630	0.321	0.319	20.80	0.626	0.316	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	21.50	20.84	1	53	Right	5	0.120	0.272	1.164	0.140	0.084	0.080	20.80	0.119	0.074	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	21.50	20.83	50	28	Right	5	0.133	0.283	1.167	0.155	0.095	0.097	20.80	0.132	0.083	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	-0.19	831.50	166300	DFT-s-OFDM	0.0	21.50	20.84	1	53	Left	5	0.039	0.020	1.164	0.035	0.023	0.022	20.80	0.030	0.019	
Body	NR Band n26	20	QPSK	3b	N7R16	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	21.50	20.83	50	28	Left	5	0.039	0.020	1.167	0.046	0.030	0.029	20.80	0.039	0.024	
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 10-56 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 Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.05	831.50	166300	QFT-s-OFDM	0.0	24.40	23.10	1	53	Back	5	0.579	0.313	1.149	0.781	0.473	0.488	23.80	0.680	0.425	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.02	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	50	28	Back	5	0.610	0.367	1.137	0.816	0.491	0.510	23.80	0.711	0.444	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.02	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	1	53	Back	5	0.579	0.313	1.149	0.781	0.473	0.488	23.80	0.680	0.425	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.01	831.50	166300	QFT-s-OFDM	0.0	24.40	23.10	1	53	Top	5	0.739	0.408	1.149	0.997	0.531	0.633	23.80	0.868	0.543	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.01	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	50	28	Top	5	0.739	0.408	1.137	0.998	0.531	0.633	23.80	0.868	0.543	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.02	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	100	0	Top	5	0.820	0.489	1.165	1.119	0.667	0.699	23.80	0.973	0.609	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.01	831.50	166300	CP-OFDM	0.2	24.20	23.13	1	1	Top	5	0.880	0.524	1.179	1.126	0.704	0.736	23.80	0.981	0.613	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.02	831.50	166300	CP-s-OFDM	0.0	24.40	23.14	1	53	Bottom	5	0.620	0.339	1.137	0.820	0.511	0.536	23.80	0.711	0.444	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.05	831.50	166300	QFT-s-OFDM	0.0	24.20	23.14	50	28	Bottom	5	0.698	0.390	1.137	0.915	0.508	0.602	23.80	0.801	0.503	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.02	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	1	53	Bottom	5	0.610	0.367	1.137	0.816	0.491	0.510	23.80	0.711	0.444	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.02	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	50	28	Right	5	0.591	0.360	1.137	0.812	0.480	0.506	23.80	0.705	0.440	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.05	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	1	53	Left	5	0.267	0.157	1.349	0.360	0.212	0.225	23.80	0.314	0.196	
Body	NR Band n26	20	QPSK	4	R2TC0	1:1	-0.04	831.50	166300	QFT-s-OFDM	0.0	24.40	23.14	40	28	Left	5	0.261	0.154	1.137	0.358	0.208	0.218	23.80	0.304	0.190	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Body									
Uncontrolled Exposure/General Population																		1.6 W/kg (W/kg) averaged over 1 gram									

10.21 NR Band n5 Standalone SAR

Table 10-57 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 Rate [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	1	1	Back	5	0.926	0.486	1.271	1.177	0.618	0.736	21.10	1.000	0.625	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	50	56	Back	5	0.849	0.429	1.271	1.209	0.558	0.674	21.10	0.910	0.569	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	100	0	Back	5	0.942	0.443	1.279	1.077	0.567	0.673	21.10	0.910	0.569	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.01	836.50	167300	CP-OFDM	0.0	21.80	20.79	1	1	Back	5	0.937	0.497	1.262	1.182	0.627	0.739	21.10	1.000	0.625	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	1	1	Top	5	0.962	0.734	1.271	0.800	0.475	0.560	21.10	0.760	0.463	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	50	56	Top	5	0.674	0.331	1.271	0.857	0.421	0.536	21.10	0.730	0.456	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	100	0	Top	5	0.704	0.360	1.279	0.900	0.460	0.563	21.10	0.760	0.475	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	1	1	Bottom	5	0.966	0.693	1.271	0.958	0.639	0.706	21.10	0.950	0.631	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	50	56	Bottom	5	0.623	0.303	1.271	0.629	0.319	0.418	21.10	0.620	0.313	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	1	1	Right	5	0.113	0.060	1.271	0.168	0.102	0.105	21.10	0.140	0.088	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	50	56	Right	5	0.109	0.060	1.271	0.113	0.080	0.083	21.10	0.110	0.069	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	1	1	Left	5	0.058	0.036	1.271	0.074	0.048	0.046	21.10	0.060	0.038	
Body	NR Band n5	20	QPSK	3b	N7R6	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	21.80	20.76	50	56	Left	5	0.051	0.021	1.271	0.039	0.027	0.024	21.10	0.020	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 10-58 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 Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.00	23.35	1	1	Back	5	0.884	0.514	1.161	1.026	0.597	0.641	23.20	0.831	0.513		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	24.00	23.42	50	28	Back	5	0.932	0.537	1.143	1.065	0.614	0.666	23.20	0.895	0.554		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	24.00	23.32	100	0	Back	5	0.846	0.503	1.169	0.989	0.588	0.618	23.20	0.821	0.514		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	24.00	23.35	1	1	Top	5	0.938	0.549	1.161	1.089	0.636	0.681	23.20	0.906	0.566		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	24.00	23.42	50	28	Top	5	1.046	0.661	1.143	1.189	0.698	0.743	23.20	0.969	0.619	A21	
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.00	23.35	100	0	Top	5	1.000	0.581	1.169	1.169	0.695	0.743	23.20	0.985	0.619		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	24.00	23.32	100	0	Top	5	1.000	0.593	1.169	1.169	0.691	0.731	23.20	0.972	0.608		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.07	836.50	167300	CP-OFDM	0.0	24.00	23.56	1	1	Top	5	0.769	0.581	1.007	1.073	0.643	0.671	23.20	0.862	0.555		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	24.00	23.35	1	1	Bottom	5	0.679	0.305	1.161	0.692	0.264	0.328	23.20	0.677	0.346		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	24.00	23.42	50	28	Bottom	5	0.650	0.341	1.143	0.667	0.247	0.342	23.20	0.655	0.335		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.10	836.50	167300	DFT-s-OFDM	0.0	24.00	23.35	1	1	Right	5	0.104	0.070	1.161	0.211	0.081	0.076	23.20	0.101	0.063		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	24.00	23.42	50	28	Right	5	0.113	0.081	1.143	0.141	0.093	0.088	23.20	0.117	0.073		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	24.00	23.35	1	1	Left	5	0.228	0.135	1.161	0.265	0.157	0.186	23.20	0.220	0.138		
Body	NR Band n5	20	QPSK	4	9VFDY	1:1	-0.10	836.50	167300	DFT-s-OFDM	0.0	24.00	23.42	50	28	Left	5	0.300	0.172	1.143	0.343	0.197	0.214	23.20	0.285	0.176		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: Blue entry represents variability measurement

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10.22 NR Band n70 Standalone SAR

Table 10-59 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 n70	15	QPSK	1b	GVY11	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.02	1	1	Back	5	0.981	0.454	1.143	1.121	0.519	0.701	19.80	0.932	0.583	A22
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	20.60	19.96	36	0	Back	5	1.240	0.463	1.132	1.127	0.544	0.755	19.80	0.939	0.613	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	20.60	19.98	75	0	Back	5	0.979	0.455	1.153	1.122	0.520	0.701	19.80	0.933	0.583	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.03	1702.50	340500	CP-OFDM	0.0	20.60	20.05	1	1	Back	5	0.597	0.460	1.135	1.132	0.522	0.708	19.80	0.942	0.589	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.01	1	1	Top	5	0.909	0.459	1.143	0.920	0.605	0.905	19.80	0.908	0.605	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.06	36	0	Top	5	0.013	0.007	1.132	0.015	0.008	0.009	19.80	0.012	0.008	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.02	1	1	Bottom	5	0.905	0.396	1.143	1.034	0.463	0.646	19.80	0.860	0.336	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.06	36	0	Bottom	5	1.030	0.445	1.132	1.166	0.504	0.779	19.80	0.970	0.606	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.60	19.98	75	0	Bottom	5	0.979	0.430	1.153	1.129	0.502	0.706	19.80	0.939	0.587	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.02	1	1	Right	5	0.625	0.422	1.143	0.609	0.612	0.618	19.80	0.924	0.618	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.15	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.06	36	0	Right	5	0.027	0.003	1.132	0.031	0.018	0.019	19.80	0.025	0.019	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.02	1	1	Left	5	0.052	0.028	1.143	0.059	0.032	0.037	19.80	0.049	0.031	
Body	NR Band n70	15	QPSK	1b	GVY11	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.60	20.06	36	0	Left	5	0.051	0.028	1.132	0.058	0.032	0.036	19.80	0.048	0.030	
ANSI/IEEE C63.1 LIMIT - SAFETY LIMIT																	Body										
Spatial Peak																	1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																	averaged over 1 gram										

Table 10-60 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.08	1	1	Back	5	0.812	0.391	1.236	1.004	0.483	0.628	19.20	0.835	0.522	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.10	36	0	Back	5	0.821	0.402	1.230	1.030	0.494	0.631	19.20	0.840	0.525	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.06	75	0	Back	5	0.722	0.393	1.242	0.897	0.441	0.561	19.20	0.746	0.465	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.08	1	1	Top	5	0.009	0.005	1.236	0.011	0.006	0.007	19.20	0.009	0.006	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.10	36	0	Top	5	0.010	0.007	1.230	0.012	0.009	0.008	19.20	0.010	0.006	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.08	1	1	Bottom	5	0.956	0.436	1.236	1.182	0.539	0.709	19.20	0.883	0.514	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.10	36	0	Bottom	5	0.950	0.439	1.230	1.144	0.515	0.715	19.20	0.952	0.595	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.06	75	0	Bottom	5	0.814	0.375	1.242	1.011	0.485	0.622	19.20	0.841	0.526	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	0.02	1702.50	340500	CP-OFDM	0.0	20.00	19.17	1	1	Bottom	5	0.792	0.383	1.231	0.959	0.440	0.599	19.20	0.788	0.499	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.08	1	1	Right	5	0.152	0.079	1.236	0.188	0.098	0.118	19.20	0.116	0.098	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.10	36	0	Right	5	0.177	0.092	1.230	0.218	0.112	0.136	19.20	0.131	0.113	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.08	1	1	Left	5	0.000	0.000	1.236	0.000	0.000	0.000	19.20	0.000	0.000	
Body	NR Band n70	15	QPSK	2	LVY09	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	20.00	19.10	36	0	Left	5	0.003	0.003	1.230	0.004	0.001	0.003	19.20	0.003	0.002	
ANSI/IEEE C63.1 LIMIT - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-61 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 n70	15	QPSK	3a	CMW05	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.22	1	1	Back	5	0.822	0.428	1.225	1.007	0.524	0.629	21.40	0.817	0.536	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.32	36	43	Back	5	0.933	0.483	1.197	1.117	0.578	0.698	21.40	0.951	0.594	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.21	75	0	Back	5	0.803	0.492	1.227	1.069	0.604	0.731	21.40	0.993	0.622	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.00	1702.50	340500	CP-OFDM	0.0	22.10	21.16	1	1	Back	5	0.864	0.449	1.242	1.071	0.564	0.671	21.40	0.913	0.571	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.22	1	1	Top	5	0.475	0.309	1.225	0.582	0.256	0.364	21.40	0.495	0.309	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.32	36	43	Top	5	0.539	0.213	1.197	0.645	0.275	0.403	21.40	0.549	0.343	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.22	1	1	Bottom	5	0.805	0.403	1.225	0.931	0.016	0.019	21.40	0.026	0.016	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.32	36	43	Bottom	5	0.028	0.013	1.197	0.034	0.018	0.021	21.40	0.029	0.018	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.22	1	1	Right	5	0.561	0.301	1.225	0.713	0.371	0.446	21.40	0.607	0.379	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.32	36	43	Right	5	0.533	0.270	1.197	0.638	0.330	0.399	21.40	0.543	0.339	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.22	1	1	Left	5	0.006	0.003	1.225	0.007	0.004	0.004	21.40	0.005	0.004	
Body	NR Band n70	15	QPSK	3a	CMW05	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	22.10	21.32	36	43	Left	5	0.008	0.004	1.197	0.010	0.005	0.006	21.40	0.005	0.005	
ANSI/IEEE C63.1 LIMIT - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-62 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 n70	15	QPSK	4	NR705	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.75	1	1	Back	5	0.835	0.517	1.274	1.064	0.659	0.665	21.00	0.885	0.553	3.5 W/kg Body assigned over 1 gram
Body	NR Band n70	15	QPSK	4	NR706	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.89	36	43	Back	5	0.844	0.526	1.233	1.041	0.649	0.651	21.00	0.865	0.541	
Body	NR Band n70	15	QPSK	4	NR705	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.74	75	0	Back	5	0.832	0.519	1.276	1.175	0.726	0.734	21.00	0.937	0.611	
Body	NR Band n70	15	QPSK	4	NR706	1:1	-0.03	1702.50	340500	CP-OFDM	0.0	21.80	20.87	1	1	Back	5	0.841	0.528	1.277	1.134	0.686	0.709	21.00	0.943	0.588	
Body	NR Band n70	15	QPSK	4	NR706	1:1	-0.08	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.75	1	1	Top	5	0.810	0.476	1.274	0.936	0.227	0.247	21.00	0.329	0.203	
Body	NR Band n70	15	QPSK	4	NR705	1:1	-0.08	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.75	1	1	Top	5	0.810	0.476	1.274	0.936	0.227	0.247	21.00	0.329	0.206	
Body	NR Band n70	15	QPSK	4	NR705	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.75	36	1	Bottom	5	0.851	0.607	1.274	0.965	0.684	0.641	21.00	0.954	0.694	
Body	NR Band n70	15	QPSK	4	NR706	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.89	36	43	Bottom	5	0.808	0.601	1.233	0.947	0.626	0.609	21.00	0.939	0.624	
Body	NR Band n70	15	QPSK	4	NR706	1:1	-0.08	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.88	36	1	Right	5	0.826	0.598	1.233	0.903	0.603	0.602	21.00	0.927	0.617	
Body	NR Band n70	15	QPSK	4	NR706	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.89	36	43	Right	5	0.826	0.606	1.233	0.935	0.620	0.622	21.00	0.929	0.618	
Body	NR Band n70	15	QPSK	4	NR706	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.75	1	1	Left	5	0.724	0.551	1.274	0.349	0.192	0.218	21.00	0.290	0.181	
Body	NR Band n70	15	QPSK	4	NR706	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	21.80	20.89	36	43	Left	5	0.743	0.534	1.233	0.585	0.318	0.318	21.00	0.250	0.156	
AMR/BLER CQI 192 - SAFETY/LIMIT																											
Spatial Power										3.5 W/kg Body assigned over 1 gram																	
Uncontrolled Exposure/General Population																											

10.23 NR Band n66 Standalone SAR

Table 10-63 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 Tuning-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.04	1732.50	346500	OFDM+CP-OFDM	0.0	20.10	18.92	1	1	Back	5	0.868	0.388	1.312	1.136	0.522	0.710	19.40	0.967	0.604		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.01	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	19.00	1	1	Back	5	0.840	0.384	1.388	1.082	0.485	0.675	19.40	0.931	0.576		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.08	1732.50	346500	OFDM+CP-OFDM	0.0	20.10	18.95	120	0	Back	5	0.860	0.385	1.315	1.131	0.519	0.707	19.40	0.963	0.602		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.04	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.97	120	122	Back	5	0.905	0.410	1.297	1.174	0.532	0.724	19.40	0.999	0.624		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.05	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.96	240	0	Back	5	0.896	0.408	1.300	1.165	0.530	0.718	19.40	0.992	0.620		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.04	1745.00	346500	CP-OFDM	0.0	20.10	18.94	1	1	Back	5	0.718	0.313	1.306	0.938	0.454	0.586	19.40	0.798	0.499		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.05	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	19.00	1	121	Top	5	0.911	0.406	1.288	1.014	0.608	0.699	19.40	0.912	0.608		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.06	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.97	120	122	Top	5	0.913	0.406	1.297	0.917	0.608	0.911	19.40	0.914	0.609		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.00	1732.50	346500	OFDM+CP-OFDM	0.0	20.10	18.93	1	1	Bottom	5	0.725	0.330	1.312	0.951	0.420	0.594	19.40	0.809	0.506		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.01	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	19.00	1	121	Bottom	5	0.813	0.377	1.388	1.046	0.460	0.654	19.40	0.890	0.558		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.07	1732.50	346500	OFDM+CP-OFDM	0.0	20.10	18.93	120	0	Bottom	5	0.835	0.369	1.315	1.008	0.481	0.688	19.40	0.905	0.584		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.03	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.97	120	122	Bottom	5	0.849	0.372	1.297	1.101	0.481	0.688	19.40	0.917	0.586		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.01	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.96	240	0	Bottom	5	0.787	0.348	1.300	1.013	0.450	0.639	19.40	0.873	0.544		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.18	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	19.00	1	121	Right	5	0.928	0.408	1.288	0.916	0.621	0.913	19.40	0.911	0.619		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.07	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.97	120	122	Right	5	0.932	0.409	1.297	0.942	0.625	0.926	19.40	0.916	0.621		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.08	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.97	120	122	Left	5	0.869	0.407	1.288	0.963	0.635	0.939	19.40	0.924	0.604		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.06	1745.00	346500	OFDM+CP-OFDM	0.0	20.10	18.97	120	122	Left	5	0.948	0.427	1.297	0.962	0.635	0.939	19.40	0.913	0.633		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.00	1737.50	351500	OFDM+CP-OFDM	0.0	19.50	18.48	120	0	Back	5	0.886	0.391	1.282	1.045	0.527	0.716	18.80	0.975	0.609		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.05	1737.50	351500	OFDM+CP-OFDM	0.0	19.50	18.42	120	0	Back	5	0.941	0.393	1.282	1.078	0.591	0.874	18.80	0.918	0.574		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	0.00	1732.50	351500	OFDM+CP-OFDM	0.0	19.50	18.42	1	121	Bottom	5	0.848	0.370	1.284	1.097	0.479	0.688	18.80	0.914	0.584		
Body	NR Band n66	45	QPSK	1b	9WFDV	1.1	-0.01	1732.50	351500	OFDM+CP-OFDM	0.0	19.50	18.42	120	0	Bottom	5	0.805	0.363	1.283	0.923	0.463	0.645	18.80	0.878	0.549		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body							1.6 W/kg (mW/g)		averaged over 1 gram	
Spatial Peak																		Body							1.6 W/kg (mW/g)		averaged over 1 gram	
Uncontrolled Exposure/General Population																		Body							1.6 W/kg (mW/g)		averaged over 1 gram	

Table 10-64 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 [g SAR]	Simultaneous Tuning-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.09	1732.50	346500	OFDM+CP-OFDM	0.0	25.30	24.62	1	121	Back	5	0.984	0.518	1.169	1.033	0.606	0.646	24.80	0.921	0.576	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.05	1745.00	346500	OFDM+CP-OFDM	0.0	25.30	24.61	1	1	Back	5	0.913	0.524	1.172	1.070	0.614	0.669	24.80	0.954	0.596	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.01	1732.50	346500	OFDM+CP-OFDM	0.0	25.30	24.66	120	0	Back	5	0.884	0.487	1.109	1.028	0.564	0.621	24.80	0.872	0.574	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.01	1745.00	346500	OFDM+CP-OFDM	0.0	25.30	24.59	120	61	Back	5	0.892	0.500	1.178	1.051	0.591	0.657	24.80	0.937	0.586	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.01	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.65	1	240	Back	5	0.907	0.508	1.161	1.099	0.590	0.687	24.80	0.979	0.617	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.00	1732.50	351500	OFDM+CP-OFDM	0.0	25.30	24.67	120	61	Back	5	0.884	0.496	1.156	1.022	0.575	0.639	24.80	0.911	0.569	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.01	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.69	240	0	Back	5	0.896	0.467	1.205	1.007	0.563	0.629	24.80	0.877	0.561	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.00	1737.50	351500	CP-OFDM	1.1	24.20	23.80	1	1	Back	5	0.748	0.406	1.148	0.882	0.501	0.551	23.20	0.789	0.491	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.15	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.65	1	240	Top	5	0.909	0.507	1.161	0.935	0.600	0.692	24.80	0.919	0.619	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.07	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.67	120	61	Top	5	0.929	0.508	1.156	0.634	0.618	0.621	24.80	0.930	0.619	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.00	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.67	120	61	Bottom	5	0.843	0.389	1.161	0.707	0.523	0.647	24.80	0.868	0.543	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.03	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.67	120	61	Bottom	5	0.838	0.393	1.156	0.736	0.536	0.648	24.80	0.847	0.404	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.00	1727.50	351500	OFDM+CP-OFDM	0.0	25.30	24.65	1	240	Right	5	0.910	0.505	1.161	1.039	0.677	0.987	24.80	0.914	0.678	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.01	1732.50	351500	OFDM+CP-OFDM	0.0	25.30	24.67	120	61	Right	5	0.814	0.478	1.156	0.978	0.511	0.677	11.1	0.897	0.619	
Body	NR Band n66	45	QPSK	2	F2227	1.1	0.16	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.65	1	240	Left	5	0.928	0.608	1.161	0.913	0.619	0.921	24.80	0.929	0.618	
Body	NR Band n66	45	QPSK	2	F2227	1.1	-0.04	1737.50	351500	OFDM+CP-OFDM	0.0	25.30	24.67	120	61	Left	5	0.928	0.607	1.156	0.932	0.620	0.920	24.80	0.929	0.618	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		2.0 W/kg (mW/g)									
Spatial Peak																		averaged over 1 gram									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 10-65 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 [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-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1732.50	346500	OFDM+CP-OFDM	0.0	21.30	20.65	1	240	Back	5	0.900	0.467	1.161	1.045	0.542	0.653	20.50	0.869	0.543	A23
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.70	1	240	Back	5	1.009	0.520	1.140	1.163	0.599	0.727	20.50	1.067	0.604	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1732.50	346500	OFDM+CP-OFDM	0.0	21.30	20.62	120	0	Back	5	0.858	0.448	1.169	1.003	0.524	0.627	20.50	0.834	0.521	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.71	120	122	Back	5	1.000	0.520	1.146	1.089	0.606	0.748	20.50	1.081	0.613	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1732.50	346500	CP-OFDM	0.0	21.30	20.66	240	0	Back	5	1.000	0.516	1.159	1.159	0.598	0.724	20.50	1.064	0.603	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1745.00	346500	CP-OFDM	0.0	21.30	20.79	1	1	Back	5	0.939	0.491	1.175	1.056	0.552	0.660	20.50	0.878	0.549	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1745.00	346500	CP-OFDM	0.0	21.30	20.79	1	240	Top	5	0.939	0.491	1.175	1.056	0.552	0.660	20.50	0.878	0.549	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.71	120	122	Top	5	0.693	0.292	1.146	0.794	0.355	0.486	20.50	0.660	0.413	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.73	1	240	Bottom	5	0.904	0.493	1.140	0.950	0.629	0.603	20.50	0.942	0.606	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.73	1	240	Bottom	5	0.904	0.493	1.140	0.950	0.629	0.603	20.50	0.942	0.606	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.02	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.73	1	240	Right	5	0.956	0.581	1.140	0.934	0.621	0.696	20.50	0.927	0.629	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.04	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.71	120	122	Right	5	0.956	0.293	1.146	0.647	0.333	0.404	20.50	0.538	0.336	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.07	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.70	120	122	Left	5	0.956	0.293	1.146	0.647	0.333	0.404	20.50	0.538	0.336	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.11	1745.00	346500	OFDM+CP-OFDM	0.0	21.30	20.70	120	122	Left	5	0.905	0.001	1.146	0.006	0.003	0.004	20.50	0.005	0.001	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1737.50	351500	OFDM+CP-OFDM	0.0	21.10	19.94	1	121	Back	5	0.887	0.460	1.306	1.158	0.401	0.724	20.50	0.963	0.602	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1737.50	351500	OFDM+CP-OFDM	0.0	21.10	19.94	1	121	Back	5	0.887	0.460	1.306	1.158	0.401	0.724	20.50	0.963	0.602	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.01	1737.50	351500	OFDM+CP-OFDM	0.0	21.10	19.94	1	121	Top	5	0.540	0.234	1.306	0.705	0.293	0.441	20.50	0.586	0.366	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.03	1737.50	351500	OFDM+CP-OFDM	0.0	21.10	19.93	120	61	Top	5	0.534	0.230	1.309	0.699	0.288	0.447	20.50	0.581	0.363	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.07	1737.50	351500	OFDM+CP-OFDM	0.0	21.10	19.94	120	61	Right	5	0.534	0.230	1.309	0.699	0.288	0.447	20.50	0.581	0.363	
Body	NR Band n66	45	QPSK	3a	QNMMS	1.1	0.00	1737.50	351500	OFDM+CP-OFDM	0.0	21.10	19.93	120	61	Right	5	0.481	0.241	1.309	0.639	0.318	0.394	20.50	0.524	0.328	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		1.6 W/kg (W/kg) averaged over 1 gram									
Uncontrolled Exposure Peak																		Body									

10.24 NR Band n25 Standalone SAR

Table 10-67 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.05	1882.50	376500	OFDM	0.0	18.40	17.61	1	214	Back	5	0.895	0.409	1.199	1.073	0.490	0.671	17.70	0.913	0.571	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.05	1882.50	376500	OFDM	0.0	18.40	17.66	1	214	Back	5	0.915	0.423	1.178	1.078	0.498	0.674	17.70	0.918	0.574	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.04	1882.50	376500	OFDM	0.0	18.40	17.59	216	0	Back	5	0.950	0.438	1.205	1.152	0.528	0.720	17.70	0.981	0.613	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.05	1882.50	376500	OFDM	0.0	18.40	17.61	1	214	Top	5	0.015	0.009	1.199	0.018	0.010	0.011	17.70	0.015	0.009	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.07	1882.50	376500	OFDM	0.0	18.40	17.69	108	0	Top	5	0.018	0.009	1.178	0.021	0.011	0.013	17.70	0.018	0.011	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	0.00	1882.50	376500	OFDM	0.0	18.40	17.61	1	214	Bottom	5	0.910	0.409	1.199	1.091	0.489	0.680	17.70	0.929	0.581	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.05	1882.50	376500	OFDM	0.0	18.40	17.69	108	0	Bottom	5	0.939	0.438	1.178	1.106	0.492	0.691	17.70	0.941	0.586	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.01	1882.50	376500	OFDM	0.0	18.40	17.59	216	0	Bottom	5	0.960	0.433	1.205	1.137	0.516	0.713	17.70	0.916	0.616	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	18.40	17.56	1	1	Bottom	5	0.944	0.423	1.213	1.145	0.513	0.716	17.70	0.975	0.609	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	0.00	1882.50	376500	OFDM	0.0	18.40	17.61	1	214	Right	5	0.927	0.423	1.199	0.903	0.018	0.020	17.70	0.927	0.617	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	0.18	1882.50	376500	OFDM	0.0	18.40	17.69	108	0	Right	5	0.030	0.017	1.178	0.034	0.014	0.015	17.70	0.030	0.011	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	0.01	1882.50	376500	OFDM	0.0	18.40	17.61	1	214	Left	5	0.044	0.025	1.199	0.053	0.030	0.033	17.70	0.045	0.028	
Body	NR Band n25	40	QPSK	1b	827C0D	1:1	-0.06	1882.50	376500	OFDM	0.0	18.40	17.69	108	0	Left	5	0.047	0.028	1.178	0.055	0.031	0.034	17.70	0.047	0.029	
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 10-68 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.02	1882.50	376500	OFDM	0.0	18.80	17.81	1	1	Back	5	0.608	0.305	1.216	0.764	0.381	0.478	18.00	0.635	0.397	
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.01	1882.50	376500	OFDM	0.0	18.80	17.87	108	0	Back	5	0.609	0.302	1.239	0.743	0.374	0.464	18.00	0.618	0.386	
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.01	1882.50	376500	OFDM	0.0	18.80	17.81	1	1	Back	5	0.609	0.305	1.236	0.761	0.381	0.478	18.00	0.635	0.397	
Body	NR Band n25	40	QPSK	2	27162V	1:1	0.08	1882.50	376500	OFDM	0.0	18.80	17.87	108	0	Top	5	0.014	0.008	1.239	0.017	0.010	0.011	18.00	0.014	0.009	
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.01	1882.50	376500	OFDM	0.0	18.80	17.81	1	1	Bottom	5	0.612	0.318	1.256	1.145	0.525	0.716	18.00	0.952	0.595	
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.02	1882.50	376500	OFDM	0.0	18.80	17.87	108	0	Bottom	5	0.657	0.406	1.239	1.286	0.540	0.741	18.00	0.986	0.616	
Body	NR Band n25	40	QPSK	2	27162V	1:1	0.02	1882.50	376500	OFDM	0.0	18.80	17.79	216	0	Bottom	5	0.617	0.371	1.262	1.031	0.468	0.648	18.00	0.858	0.536	
Body	NR Band n25	40	QPSK	2	27162V	1:1	0.05	1882.50	376500	CP-OFDM	0.0	18.80	17.76	1	1	Bottom	5	0.596	0.406	1.208	1.167	0.525	0.729	18.00	0.971	0.607	
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.05	1882.50	376500	OFDM	0.0	18.80	17.81	1	1	Right	5	0.255	0.123	1.256	0.330	0.162	0.260	18.00	0.266	0.166	
Body	NR Band n25	40	QPSK	2	27162V	1:1	0.05	1882.50	376500	OFDM	0.0	18.80	17.87	108	0	Right	5	0.245	0.123	1.239	0.304	0.152	0.190	18.00	0.253	0.158	
Body	NR Band n25	40	QPSK	2	27162V	1:1	0.10	1882.50	376500	OFDM	0.0	18.80	17.81	1	1	Left	5	0.000	0.000	1.256	0.000	0.000	0.000	18.00	0.000	0.000	
Body	NR Band n25	40	QPSK	2	27162V	1:1	-0.04	1882.50	376500	OFDM	0.0	18.80	17.87	108	0	Left	5	0.030	0.009	1.239	0.035	0.011	0.016	18.00	0.031	0.013	
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 10-69 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.01	1882.50	376500	OFDM	0.0	21.00	20.79	1	108	Back	5	1.120	0.578	1.050	1.146	0.497	0.728	20.20	0.970	0.606	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.01	1882.50	376500	OFDM	0.0	21.00	20.79	1	108	Back	5	1.120	0.578	1.050	1.176	0.497	0.755	20.20	0.978	0.611	A24
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	-0.02	1882.50	376500	OFDM	0.0	21.00	20.83	108	0	Back	5	1.090	0.570	1.040	1.134	0.593	0.709	20.20	0.943	0.589	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.00	1882.50	376500	OFDM	0.0	21.00	20.77	216	0	Back	5	1.000	0.548	1.014	1.117	0.578	0.698	20.20	0.929	0.581	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	21.00	20.81	1	1	Back	5	0.982	0.514	1.040	1.031	0.535	0.638	20.20	0.849	0.511	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	-0.01	1882.50	376500	OFDM	0.0	21.00	20.79	1	108	Top	5	0.579	0.250	1.050	0.468	0.263	0.180	20.20	0.506	0.316	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.00	1882.50	376500	OFDM	0.0	21.00	20.81	108	0	Top	5	0.603	0.260	1.040	0.617	0.270	0.193	20.20	0.527	0.329	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.13	1882.50	376500	OFDM	0.0	21.00	20.79	1	108	Bottom	5	0.054	0.027	1.050	0.057	0.028	0.036	20.20	0.047	0.029	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.05	1882.50	376500	OFDM	0.0	21.00	20.83	108	0	Bottom	5	0.054	0.028	1.040	0.056	0.029	0.035	20.20	0.047	0.029	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.00	1882.50	376500	OFDM	0.0	21.00	20.79	1	108	Right	5	0.200	0.101	1.050	0.235	0.100	0.149	20.20	0.611	0.382	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	-0.02	1882.50	376500	OFDM	0.0	21.00	20.83	108	0	Right	5	0.712	0.364	1.040	0.740	0.379	0.648	20.20	0.816	0.385	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.03	1882.50	376500	OFDM	0.0	21.00	20.79	1	108	Left	5	0.007	0.004	1.050	0.007	0.004	0.004	20.20	0.005	0.004	
Body	NR Band n25	40	QPSK	3a	N7R6S	1:1	0.09	1882.50	376500	OFDM	0.0	21.00	20.81	108	0	Left	5	0.000	0.000	1.040	0.000	0.000	0.000	20.20	0.000	0.000	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

Table 10-70 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]	Simultaneous Exposure Ratio [g SAR]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #	
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	-0.05	1882.50	376500	OFDM+OFDM	0.0	17.50	16.39	1	108	Back	5	0.485	0.248	1.291	0.626	0.321	0.391	16.80	0.533	0.333
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.00	1882.50	376500	OFDM+OFDM	0.0	17.50	16.43	108	54	Back	5	0.536	0.274	1.279	0.686	0.350	0.429	16.80	0.584	0.365
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.01	1882.50	376500	OFDM+OFDM	0.0	17.50	16.39	1	108	Top	5	0.487	0.249	1.291	0.627	0.307	0.391	16.80	0.535	0.297
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.01	1882.50	376500	OFDM+OFDM	0.0	17.50	16.43	108	54	Top	5	0.537	0.275	1.279	0.687	0.351	0.430	16.80	0.585	0.366
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.01	1882.50	376500	OFDM+OFDM	0.0	17.50	16.33	216	0	Top	5	0.488	0.249	1.312	0.625	0.286	0.378	16.80	0.532	0.292
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.00	1882.50	376500	CP-OFDM	0.0	17.50	16.43	108	54	Bottom	5	0.537	0.275	1.279	0.687	0.351	0.430	16.80	0.585	0.366
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.12	1882.50	376500	OFDM+OFDM	0.0	17.50	16.39	1	108	Bottom	5	0.514	0.267	1.291	0.618	0.009	0.011	16.80	0.515	0.009
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	-0.08	1882.50	376500	OFDM+OFDM	0.0	17.50	16.43	108	54	Bottom	5	0.515	0.268	1.279	0.620	0.009	0.013	16.80	0.517	0.011
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.00	1882.50	376500	OFDM+OFDM	0.0	17.50	16.43	108	54	Right	5	0.537	0.275	1.279	0.687	0.003	0.003	16.80	0.585	0.003
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.01	1882.50	376500	OFDM+OFDM	0.0	17.50	16.43	108	54	Right	5	0.502	0.260	1.279	0.003	0.009	0.002	16.80	0.503	0.002
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	0.06	1882.50	376500	OFDM+OFDM	0.0	17.50	16.39	1	108	Left	5	0.500	0.253	1.291	0.587	0.198	0.242	16.80	0.529	0.206
Body	NR Band n25	40	QPSK	4	G9Y1J	1:1	-0.02	1882.50	376500	OFDM+OFDM	0.0	17.50	16.43	108	54	Left	5	0.500	0.254	1.279	0.588	0.197	0.240	16.80	0.527	0.204
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (10W/10g)								
Uncontrolled Exposure/General Population																		swayed over 10 gsm								

10.25 NR Band n30 Standalone SAR

Table 10-71 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 n30	10	QPSK	1b	N7R16	1:1	-0.02	2310.00	462000	QPSK-OFDM	0.0	18.00	17.91	1	30	Back	5	0.798	0.343	1.285	1.025	0.441	0.641	18.30	0.872	0.545	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.04	2310.00	462000	QPSK-OFDM	0.0	18.00	17.97	25	14	Back	5	0.846	0.363	1.288	1.077	0.460	0.673	18.30	0.917	0.573	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.04	2310.00	462000	QPSK-OFDM	0.0	18.00	17.89	50	0	Back	5	0.854	0.368	1.291	1.103	0.475	0.689	18.30	0.939	0.587	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.04	2310.00	462000	QPSK-OFDM	0.0	19.00	17.91	1	50	Top	5	0.001	0.000	1.285	0.001	0.000	0.001	18.30	0.001	0.001	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	QPSK-OFDM	0.0	19.00	17.97	25	14	Top	5	0.001	0.000	1.318	0.001	0.000	0.001	18.30	0.001	0.001	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	QPSK-OFDM	0.0	19.00	17.91	1	50	Bottom	5	0.838	0.370	1.285	1.077	0.475	0.673	18.30	0.917	0.573	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	QPSK-OFDM	0.0	19.00	17.97	25	14	Bottom	5	0.850	0.380	1.288	1.040	0.466	0.650	18.30	0.885	0.553	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	QPSK-OFDM	0.0	19.00	17.89	50	0	Bottom	5	0.867	0.388	1.291	1.145	0.501	0.716	18.30	0.975	0.609	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	CP-OFDM	0.0	19.00	17.90	1	1	Bottom	5	0.901	0.394	1.288	1.140	0.507	0.725	18.30	0.987	0.617	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	QPSK-OFDM	0.0	19.00	17.91	1	50	Right	5	0.001	0.000	1.285	0.001	0.002	0.014	18.30	0.001	0.001	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.02	2310.00	462000	QPSK-OFDM	0.0	19.00	17.97	25	14	Right	5	0.019	0.009	1.048	0.004	0.011	0.015	18.30	0.020	0.011	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.02	2310.00	462000	QPSK-OFDM	0.0	19.00	17.91	1	30	Left	5	0.026	0.013	1.285	0.013	0.017	0.021	18.30	0.028	0.018	
Body	NR Band n30	10	QPSK	1b	N7R16	1:1	0.00	2310.00	462000	QPSK-OFDM	0.0	19.00	17.97	25	14	Left	5	0.026	0.014	1.288	0.013	0.018	0.021	18.30	0.028	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 10-72 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	J020R	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.49	1	1	Back	5	0.418	0.213	1.321	0.605	0.280	0.378	16.10	0.503	0.314	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.70	25	0	Back	5	0.479	0.219	1.318	0.631	0.289	0.394	16.10	0.525	0.328	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.49	1	1	Top	5	0.005	0.001	1.321	0.007	0.004	0.004	16.10	0.006	0.004	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.70	25	0	Top	5	0.005	0.002	1.318	0.007	0.003	0.004	16.10	0.006	0.004	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.49	1	1	Bottom	5	0.861	0.393	1.321	1.137	0.518	0.711	16.10	0.946	0.591	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.70	25	0	Bottom	5	0.866	0.407	1.318	1.088	0.536	0.746	16.10	0.993	0.621	
Body	NR Band n30	10	QPSK	2	J020R	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.60	50	0	Bottom	5	0.946	0.384	1.349	1.141	0.516	0.713	16.10	0.949	0.593	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.01	2310.00	462000	CP-OFDM	0.0	16.90	15.74	1	1	Bottom	5	0.912	0.413	1.306	1.074	0.539	0.744	16.10	0.951	0.610	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.69	1	1	Right	5	0.111	0.057	1.321	0.147	0.075	0.092	16.10	0.122	0.075	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.70	25	0	Right	5	0.148	0.073	1.318	0.195	0.096	0.122	16.10	0.162	0.101	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.46	1	1	Left	5	0.001	0.000	1.321	0.004	0.003	0.003	16.10	0.003	0.003	
Body	NR Band n30	10	QPSK	2	J020R	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	16.90	15.70	25	0	Left	5	0.002	0.001	1.318	0.003	0.001	0.002	16.10	0.002	0.001	
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 10-73 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 n30	10	QPSK	3a	9VDFV	1:1	0.03	2310.00	462000	QPSK-OFDM	0.0	19.60	19.25	1	26	Back	5	1.090	0.539	1.084	1.182	0.584	0.739	18.80	0.983	0.614	A25
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	0.03	2310.00	462000	QPSK-OFDM	0.0	19.60	19.25	1	26	Back	5	1.020	0.529	1.084	1.138	0.564	0.713	18.80	0.947	0.585	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	-0.03	2310.00	462000	QPSK-OFDM	0.0	19.60	19.34	25	0	Back	5	0.943	0.472	1.062	1.001	0.501	0.626	18.80	0.831	0.521	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	0.03	2310.00	462000	QPSK-OFDM	0.0	19.60	19.20	50	0	Back	5	1.020	0.499	1.096	1.096	0.543	0.683	18.80	0.912	0.570	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	0.06	2310.00	462000	CP-OFDM	0.0	19.60	19.11	1	1	Back	5	0.895	0.491	1.089	0.975	0.491	0.609	18.80	0.811	0.507	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	-0.03	2310.00	462000	QPSK-OFDM	0.0	19.60	19.25	1	26	Top	5	0.493	0.205	1.084	0.514	0.222	0.314	18.80	0.444	0.278	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	-0.03	2310.00	462000	QPSK-OFDM	0.0	19.60	19.14	25	0	Top	5	0.512	0.220	1.062	0.588	0.240	0.366	18.80	0.467	0.304	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	-0.12	2310.00	462000	QPSK-OFDM	0.0	19.60	19.25	25	26	Bottom	5	0.023	0.011	1.084	0.025	0.012	0.016	18.80	0.021	0.011	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	-0.20	2310.00	462000	QPSK-OFDM	0.0	19.60	19.14	25	0	Bottom	5	0.026	0.013	1.062	0.028	0.014	0.018	18.80	0.023	0.014	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	-0.05	2310.00	462000	QPSK-OFDM	0.0	19.60	19.25	1	26	Right	5	0.611	0.299	1.084	0.684	0.314	0.428	18.80	0.569	0.366	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	0.04	2310.00	462000	QPSK-OFDM	0.0	19.60	19.34	25	0	Right	5	0.654	0.310	1.062	0.695	0.329	0.434	18.80	0.578	0.361	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	0.04	2310.00	462000	QPSK-OFDM	0.0	19.60	19.25	1	26	Left	5	0.007	0.003	1.084	0.008	0.003	0.005	18.80	0.007	0.004	
Body	NR Band n30	10	QPSK	3a	9VDFV	1:1	0.06	2310.00	462000	QPSK-OFDM	0.0	19.60	19.34	25	0	Left	5	0.012	0.007	1.062	0.013	0.007	0.008	18.80	0.011	0.007	
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 10-74 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 n30	10	QPSK	4	9VDFV	1:1	0.02	2310.00	462000	DFT-F-OFDM	0.0	18.50	16.36	1	26	Back	5	0.480	0.249	1.419	0.681	0.333	0.426	17.70	0.565	0.354	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.06	2310.00	462000	DFT-F-OFDM	0.0	18.50	17.01	25	14	Back	5	0.513	0.261	1.409	0.723	0.376	0.482	17.70	0.601	0.376	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	-0.03	2310.00	462000	DFT-F-OFDM	0.0	18.50	16.36	1	26	Top	5	0.745	0.329	1.419	1.057	0.485	0.661	17.70	0.879	0.549	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	-0.06	2310.00	462000	DFT-F-OFDM	0.0	18.50	17.01	25	14	Top	5	0.791	0.381	1.409	1.115	0.489	0.687	17.70	0.927	0.579	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.00	2310.00	462000	DFT-F-OFDM	0.0	18.50	16.36	50	0	Top	5	0.776	0.339	1.419	1.117	0.484	0.688	17.70	0.829	0.581	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.08	2310.00	462000	CP-OFDM	0.0	18.50	17.01	1	26	Top	5	0.808	0.389	1.419	1.180	0.500	0.713	17.70	0.869	0.613	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	-0.07	2310.00	462000	DFT-F-OFDM	0.0	18.50	16.36	1	26	Bottom	5	0.617	0.305	1.419	0.614	0.341	0.411	17.70	0.500	0.300	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.08	2310.00	462000	DFT-F-OFDM	0.0	18.50	17.01	25	14	Bottom	5	0.814	0.390	1.409	1.026	0.508	0.613	17.70	0.817	0.611	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.01	2310.00	462000	DFT-F-OFDM	0.0	18.50	16.36	1	26	Right	5	0.588	0.300	1.419	0.688	0.341	0.411	17.70	0.500	0.300	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.07	2310.00	462000	DFT-F-OFDM	0.0	18.50	17.01	25	14	Right	5	0.800	0.400	1.409	0.900	0.500	0.600	17.70	0.800	0.500	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.00	2310.00	462000	DFT-F-OFDM	0.0	18.50	16.36	1	26	Left	5	0.524	0.371	1.419	0.460	0.243	0.288	17.70	0.383	0.239	
Body	NR Band n30	10	QPSK	4	9VDFV	1:1	0.09	2310.00	462000	DFT-F-OFDM	0.0	18.50	17.01	25	14	Left	5	0.839	0.372	1.409	0.464	0.242	0.290	17.70	0.386	0.241	
AN/HEC CML1192 - SAFETY/Life																		Body									
Unintended Exposure/General Population																		1.6 W/kg SAR [W/kg] averaged over 1 gram									

10.26 NR Band n7 Standalone SAR

Table 10-75 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.45	1	135	Back	5	0.778	0.330	1.161	0.903	0.372	0.564	19.50	0.785	0.491	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.02	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.46	1	68	Back	5	0.786	0.330	1.163	0.906	0.376	0.565	19.50	0.789	0.493	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.04	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.42	270	0	Back	5	0.820	0.339	1.169	0.964	0.395	0.603	19.50	0.840	0.525	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.21	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.45	1	135	Top	5	0.006	0.002	1.161	0.007	0.002	0.004	19.50	0.005	0.004	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.02	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.48	1	68	Top	5	0.006	0.002	1.163	0.007	0.002	0.004	19.50	0.005	0.004	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.45	1	135	Bottom	5	0.885	0.408	1.161	1.027	0.474	0.642	19.50	0.894	0.559	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.48	135	68	Bottom	5	0.932	0.429	1.153	1.075	0.495	0.672	19.50	0.936	0.585	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.02	2535.00	507000	CP-OFDMA	0.0	20.10	19.37	1	1	Bottom	5	0.926	0.423	1.197	1.108	0.506	0.693	19.50	0.965	0.603	A26
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.45	1	68	Right	5	0.807	0.362	1.161	0.908	0.382	0.570	19.50	0.817	0.504	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.07	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.48	135	68	Right	5	0.007	0.002	1.153	0.008	0.002	0.005	19.50	0.007	0.004	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.06	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.45	1	135	Left	5	0.049	0.027	1.161	0.057	0.031	0.039	19.50	0.050	0.031	
Body	NR Band n7	50	QPSK	1b	TC93	1.1	-0.09	2535.00	507000	OFDM-OFDMA	0.0	20.10	19.48	135	68	Left	5	0.062	0.034	1.153	0.071	0.039	0.044	19.50	0.063	0.039	
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 10-76 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.04	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.65	1	135	Back	5	0.839	0.443	1.134	1.119	0.591	0.699	18.20	0.952	0.595	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.62	135	68	Back	5	0.819	0.433	1.143	1.100	0.582	0.688	18.20	0.936	0.585	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.46	270	0	Back	5	0.906	0.422	1.163	1.082	0.574	0.676	18.20	0.921	0.576	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.02	2535.00	507000	CP-OFDM	0.0	18.90	17.55	1	1	Back	5	0.853	0.449	1.165	1.164	0.613	0.728	18.20	0.991	0.619	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.65	1	135	Top	5	0.026	0.014	1.134	0.048	0.024	0.030	18.20	0.041	0.026	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.04	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.62	135	68	Top	5	0.023	0.013	1.163	0.043	0.021	0.027	18.20	0.023	0.013	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.07	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.65	1	135	Bottom	5	0.461	0.195	1.134	0.615	0.260	0.384	18.20	0.523	0.327	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.06	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.62	135	68	Bottom	5	0.452	0.192	1.143	0.608	0.258	0.380	18.20	0.517	0.323	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.05	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.65	1	135	Right	5	0.792	0.388	1.134	1.057	0.518	0.661	18.20	0.900	0.563	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.46	270	0	Right	5	0.780	0.385	1.143	1.048	0.512	0.655	18.20	0.892	0.558	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.00	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.56	270	0	Right	5	0.779	0.377	1.163	1.052	0.512	0.658	18.20	0.889	0.559	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.07	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.65	1	135	Left	5	0.004	0.003	1.134	0.005	0.001	0.003	18.20	0.004	0.003	
Body	NR Band n7	50	QPSK	2	F2227	1.1	-0.07	2535.00	507000	OFDM-OFDMA	0.0	18.90	17.62	135	68	Left	5	0.007	0.003	1.143	0.009	0.004	0.006	18.20	0.008	0.005	
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 10-77 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 Exposure Ratio (1g SAR)	Plot #
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.65	1	135	Back	5	0.900	0.443	1.216	1.094	0.536	0.684	19.80	0.931	0.582	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.04	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.63	135	68	Back	5	0.955	0.460	1.222	1.167	0.569	0.729	19.80	0.993	0.621	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.53	270	0	Back	5	0.872	0.428	1.256	1.095	0.538	0.684	19.80	0.932	0.583	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.01	2535.00	507000	CP-OFDM	0.0	20.50	19.51	1	1	Back	5	0.905	0.441	1.256	1.117	0.544	0.711	19.80	0.968	0.605	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.06	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.65	1	135	Top	5	0.472	0.199	1.216	0.574	0.242	0.359	19.80	0.489	0.306	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.63	135	68	Top	5	0.474	0.202	1.222	0.579	0.247	0.362	19.80	0.493	0.308	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.02	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.65	1	135	Bottom	5	0.807	0.393	1.216	0.931	0.416	0.601	19.80	0.928	0.618	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.63	135	68	Bottom	5	0.025	0.012	1.222	0.031	0.015	0.019	19.80	0.026	0.016	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.04	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.65	1	135	Right	5	0.463	0.196	1.222	0.573	0.240	0.358	19.80	0.484	0.304	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.02	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.63	135	68	Right	5	0.450	0.192	1.222	0.564	0.236	0.356	19.80	0.476	0.423	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.05	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.65	1	135	Left	5	0.007	0.004	1.216	0.009	0.005	0.006	19.80	0.008	0.005	
Body	NR Band n7	50	QPSK	3a	LV999	1.1	-0.00	2535.00	507000	OFDM-OFDMA	0.0	20.50	19.63	135	68	Left	5	0.008	0.004	1.222	0.010	0.006	0.006	19.80	0.009	0.006	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																					1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-78 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio [g SAR]	Plot #
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.04	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.04	1	135	Back	5	0.827	0.386	1.191	0.985	0.460	0.616	16.10	0.838	0.524	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.00	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.08	135	0	Back	5	0.769	0.365	1.180	0.907	0.431	0.567	16.10	0.772	0.483	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.00	270	0	Back	5	0.812	0.383	1.202	0.897	0.424	0.561	16.10	0.783	0.475	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.03	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.04	1	135	Top	5	0.846	0.387	1.191	1.000	0.437	0.625	16.10	0.851	0.532	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.00	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.08	135	0	Top	5	0.800	0.369	1.180	1.000	0.470	0.608	16.10	0.810	0.500	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.00	270	0	Top	5	0.812	0.383	1.202	0.985	0.460	0.616	16.10	0.838	0.524	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.00	2535.00	507000	CP-OFDM	0.0	16.80	16.08	1	1	Top	5	0.853	0.420	1.208	1.151	0.507	0.719	16.10	0.880	0.613	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.00	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.08	135	0	Bottom	5	0.800	0.369	1.180	0.985	0.460	0.616	16.10	0.838	0.524	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.12	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.08	135	0	Bottom	5	0.820	0.380	1.180	0.924	0.009	0.015	16.10	0.820	0.613	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.05	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.04	1	135	Right	5	0.805	0.382	1.191	0.906	0.002	0.004	16.10	0.805	0.001	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.01	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.00	270	0	Right	5	0.806	0.369	1.180	0.906	0.002	0.004	16.10	0.806	0.001	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.07	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.04	1	135	Left	5	0.388	0.187	1.191	0.482	0.223	0.289	16.10	0.393	0.201	
Body	NR Band n7	50	QPSK	4	F2227	1.1	-0.00	2535.00	507000	OFDM-OFDMA	0.0	16.80	16.08	135	0	Left	5	0.419	0.201	1.180	0.484	0.237	0.309	16.10	0.420	0.201	
40W/HR C51.1.002 - SAFETY/LIMIT																					Body						
Unintended Emission/General Population																					1.6 W/kg (mW/g) averaged over 1.0 min						

10.28 NR Band n48 Standalone SAR

Table 10-83 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 Exposure Rate [1g SAR]	Plot #
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.02	3570.00	638000	OFDM+CP-OFDM	0.0	18.70	19.38	1	1	Back	5	0.630	0.272	1.076	0.678	0.293	0.424	18.80	0.564	0.353	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.15	3624.99	641666	OFDM+CP-OFDM	0.0	18.70	19.38	1	1	Back	5	0.586	0.257	1.167	0.684	0.300	0.428	18.80	0.569	0.356	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3570.00	638000	OFDM+CP-OFDM	0.0	18.70	19.38	50	28	Back	5	0.626	0.270	1.063	0.684	0.300	0.428	18.80	0.568	0.356	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.02	3624.99	641666	OFDM+CP-OFDM	0.0	18.70	19.38	50	28	Back	5	0.597	0.256	1.161	0.693	0.297	0.433	18.80	0.576	0.360	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.03	3570.00	638000	OFDM+CP-OFDM	0.0	18.70	19.38	1	1	Left	5	0.679	0.327	1.076	0.746	0.384	0.501	18.80	0.787	0.492	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.04	3624.99	641666	OFDM+CP-OFDM	0.0	18.70	19.38	1	1	Left	5	0.630	0.272	1.067	0.766	0.403	0.513	18.80	0.803	0.513	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3624.99	641666	OFDM+CP-OFDM	0.0	18.70	19.38	50	28	Left	5	0.700	0.343	1.122	0.853	0.435	0.684	18.80	0.964	0.623	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3624.99	641666	OFDM+CP-OFDM	0.0	18.70	19.38	50	28	Left	5	0.630	0.272	1.067	0.883	0.461	0.703	18.80	0.979	0.643	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.04	3624.99	641666	OFDM+CP-OFDM	0.0	18.70	19.38	50	28	Left	5	0.648	0.376	1.161	1.101	0.437	0.688	18.80	0.916	0.571	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.02	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	1	104	Back	5	0.720	0.299	1.057	0.862	0.318	0.539	18.80	0.717	0.448	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.06	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	50	28	Back	5	0.749	0.317	1.097	0.897	0.377	0.561	18.80	0.746	0.466	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.02	3679.98	645332	OFDM+CP-OFDM	0.5	19.30	18.64	100	0	Back	5	0.728	0.302	1.184	0.847	0.352	0.529	18.80	0.705	0.441	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	1	104	Top	5	0.620	0.267	1.197	0.624	0.268	0.515	18.80	0.620	0.313	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	50	28	Top	5	0.635	0.262	1.197	0.642	0.264	0.526	18.80	0.635	0.322	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	1	104	Bottom	5	0.728	0.285	1.197	0.285	0.111	0.178	18.80	0.217	0.148	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.02	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	50	28	Bottom	5	0.263	0.106	1.197	0.315	0.127	0.397	18.80	0.262	0.164	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	1	104	Right	5	0.613	0.264	1.197	0.616	0.265	0.510	18.80	0.613	0.307	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.04	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	50	28	Right	5	0.690	0.285	1.197	0.611	0.264	0.507	18.80	0.609	0.306	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	1	104	Left	5	0.870	0.360	1.197	1.051	0.407	0.651	18.80	0.866	0.541	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	19.02	50	28	Left	5	0.546	0.267	1.197	1.132	0.438	0.708	18.80	0.942	0.589	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	18.80	18.64	100	0	Back	5	0.708	0.320	1.164	0.929	0.376	0.541	18.80	0.779	0.483	
Body	NR Band-n48	40	QPSK	1a	UV999	1.1	-0.02	3679.98	645332	CP-OFDM	1.0	18.80	18.12	1	1	Left	5	0.719	0.382	1.168	0.841	0.330	0.526	18.80	0.700	0.438	
ANSI/IEEE C63.1 L1992 - SAFETY LIMIT																		Body									
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-84 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 [g SAR]	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.10	3570.00	638000	OFDM+CP-OFDM	0.0	18.00	17.11	1	1	Back	5	0.959	0.378	1.227	1.127	0.464	0.736	17.20	0.979	0.612	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.09	3624.99	641666	OFDM+CP-OFDM	0.0	18.00	17.04	1	1	Back	5	0.882	0.303	1.247	1.100	0.440	0.688	17.20	0.915	0.572	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3570.00	638000	OFDM+CP-OFDM	0.0	18.00	17.12	50	0	Back	5	0.931	0.387	1.225	1.140	0.450	0.713	17.20	0.948	0.593	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3624.99	641666	OFDM+CP-OFDM	0.0	18.00	16.90	50	0	Back	5	0.888	0.312	1.288	1.144	0.453	0.715	17.20	0.962	0.595	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3570.00	638000	OFDM+CP-OFDM	0.0	18.00	17.11	1	1	Right	5	0.603	0.173	1.227	0.484	0.212	0.309	17.20	0.411	0.257	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3624.99	641666	OFDM+CP-OFDM	0.0	18.00	17.04	1	1	Right	5	0.615	0.217	1.247	0.642	0.271	0.401	17.20	0.514	0.314	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3570.00	638000	OFDM+CP-OFDM	0.0	18.00	17.12	50	0	Right	5	0.585	0.167	1.225	0.470	0.205	0.312	17.20	0.393	0.246	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.02	3624.99	641666	OFDM+CP-OFDM	0.0	18.00	16.90	50	0	Right	5	0.483	0.203	1.288	0.422	0.261	0.389	17.20	0.517	0.323	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.09	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	1	1	Back	5	0.887	0.369	1.268	1.125	0.454	0.703	18.80	0.936	0.585	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	50	28	Back	5	0.842	0.339	1.282	1.079	0.435	0.674	18.80	0.897	0.561	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.02	3679.98	645332	OFDM+CP-OFDM	1.0	19.30	17.50	100	0	Back	5	0.668	0.269	1.202	0.803	0.323	0.502	17.20	0.668	0.418	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3679.98	645332	CP-OFDM	1.5	17.80	16.89	1	1	Back	5	0.701	0.283	1.313	0.884	0.349	0.513	17.20	0.735	0.459	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	1	1	Top	5	0.628	0.204	1.268	0.606	0.018	0.033	18.80	0.609	0.019	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.02	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	50	28	Top	5	0.625	0.203	1.282	0.592	0.015	0.020	18.80	0.627	0.017	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.08	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	1	1	Bottom	5	0.245	0.089	1.268	0.311	0.118	0.394	18.80	0.259	0.162	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	50	28	Bottom	5	0.221	0.086	1.282	0.283	0.110	0.177	18.80	0.235	0.147	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	1	1	Right	5	0.236	0.242	1.268	0.720	0.308	0.466	18.80	0.607	0.379	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.01	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	50	28	Right	5	0.601	0.250	1.282	0.770	0.321	0.481	18.80	0.640	0.400	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.08	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	1	1	Left	5	0.003	0.000	1.268	0.004	0.000	0.003	18.80	0.003	0.002	
Body	NR Band-n48	40	QPSK	2	GV111	1.1	-0.07	3679.98	645332	OFDM+CP-OFDM	0.0	19.30	18.17	50	28	Left	5	0.005	0.001	1.282	0.006	0.001	0.004	18.80	0.005	0.003	
ANSI/IEEE C63.1 L1992 - SAFETY LIMIT																					Body						
Uncontrolled Exposure/General Population																					1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-85 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 Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported 10g SAR [W/kg]	Plot #
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.01	3570.00	638000	OFDM+CP-OFDM	0.0	21.60	20.39	1	1	Back	5	0.802	0.406	1.321	1.059	0.536	0.662	21.20	0.864	0.604	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.00	3624.99	641666	OFDM+CP-OFDM	0.0	21.60	20.35	1	1	Back	5	0.718	0.361	1.334	1.058	0.687	0.599	21.20	0.974	0.546	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.04	3570.00	638000	DTFT+CP-OFDM	0.0	21.60	20.30	50	28	Back	5	0.734	0.373	1.449	0.990	0.503	0.619	21.20	0.803	0.564	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.01	3624.99	641666	OFDM+CP-OFDM	0.0	21.60	20.26	50	28	Back	5	0.720	0.360	1.451	0.989	0.613	0.621	21.20	0.884	0.559	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.00	3570.00	638000	OFDM+CP-OFDM	0.0	21.60	20.39	1	1	Top	5	0.535	0.201	1.323	0.707	0.268	0.442	21.20	0.645	0.403	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.01	3624.99	641666	DTFT+CP-OFDM	0.0	21.60	20.35	1	1	Top	5	0.465	0.181	1.334	0.620	0.241	0.388	21.20	0.565	0.333	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.01	3570.00	638000	OFDM+CP-OFDM	0.0	21.60	20.39	50	28	Top	5	0.465	0.181	1.334	0.620	0.241	0.388	21.20	0.565	0.333	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.01	3624.99	641666	OFDM+CP-OFDM	0.0	21.60	20.35	50	28	Top	5	0.442	0.172	1.361	0.538	0.234	0.368	21.20	0.536	0.335	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.02	3679.98	645332	OFDM+CP-OFDM	0.0	21.60	20.40	1	1	Back	5	0.730	0.369	1.118	1.041	0.527	0.601	21.20	0.849	0.593	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.02	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.39	1	1	Back	5	0.727	0.368	1.118	1.041	0.527	0.601	21.20	0.849	0.593	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.06	3679.98	645332	OFDM+CP-OFDM	1.0	20.40	19.30	100	0	Back	5	0.707	0.346	1.449	0.954	0.469	0.536	20.20	0.870	0.544	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.02	3679.98	645332	CP-OFDM	1.5	20.40	18.50	1	1	Back	5	0.518	0.207	1.118	0.815	0.405	0.509	19.20	0.743	0.464	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.02	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.40	1	1	Back	5	0.617	0.249	1.087	0.850	0.390	0.520	20.20	0.741	0.463	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.02	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.40	1	1	Top	5	0.554	0.222	1.346	0.800	0.299	0.500	21.20	0.730	0.456	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.02	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.40	1	1	Top	5	0.620	0.249	1.087	0.850	0.390	0.520	20.20	0.741	0.463	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.03	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.40	1	1	Bottom	5	0.509	0.203	1.118	0.812	0.024	0.008	21.20	0.011	0.007	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.06	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.31	50	28	Bottom	5	0.506	0.201	1.346	0.008	0.001	0.005	21.20	0.007	0.004	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.02	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.31	50	28	Bottom	5	0.506	0.201	1.346	0.008	0.001	0.005	21.20	0.007	0.004	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	0.02	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.30	50	28	Right	5	0.507	0.200	1.346	0.023	0.007	0.014	21.20	0.021	0.013	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.03	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.40	1	1	Left	5	0.027	0.011	1.318	0.036	0.014	0.023	21.20	0.033	0.021	
Body	NR Band-n48	40	QPSK	3b	F2227	1.1	-0.06	3679.98	645332	DTFT+CP-OFDM	0.0	21.60	20.31	50	28	Left	5	0.031	0.014	1.346	0.042	0.026	0.026	21.20	0.038	0.024	
AM/RECE C61.1392 - SAFETY/LINK																		1.6 W/kg (body absorbed over 1 gram)									
Unintended Exposure/General Population																											

10.29 NR Band n77 DoD Standalone SAR

Table 10-87 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [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]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.04	3500.01	633334	QFT+QPRM	0.0	20.10	19.58	1	137	Back	5	0.700	0.333	1.127	0.789	0.353	0.493	19.40	0.872	0.420		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.03	3500.01	633334	QFT+QPRM	0.0	20.10	19.71	135	0	Back	5	0.752	0.339	1.094	0.823	0.371	0.514	19.40	0.708	0.488		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.06	3500.01	633334	QFT+QPRM	0.0	20.10	19.52	270	0	Back	5	0.770	0.343	1.143	0.880	0.392	0.520	19.40	0.749	0.468		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.04	3500.01	633334	QFT+QPRM	0.0	20.10	19.58	1	137	Top	5	0.028	0.013	1.127	0.043	0.015	0.027	19.40	0.037	0.023		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.04	3500.01	633334	QFT+QPRM	0.0	20.10	19.71	135	0	Top	5	0.037	0.013	1.094	0.040	0.014	0.025	19.40	0.034	0.021		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	20.10	19.58	1	137	Bottom	5	0.260	0.093	1.127	0.239	0.105	0.282	19.40	0.220	0.138		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	20.10	19.71	135	0	Bottom	5	0.227	0.090	1.094	0.248	0.101	0.335	19.40	0.211	0.132		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.12	3500.01	633334	QFT+QPRM	0.0	20.10	19.56	1	137	Right	5	0.007	0.000	1.127	0.008	0.000	0.005	19.40	0.007	0.004		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	0.04	3500.01	633334	QFT+QPRM	0.0	20.10	19.71	135	0	Right	5	0.007	0.002	1.094	0.008	0.002	0.005	19.40	0.007	0.004		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	20.10	19.56	1	137	Left	5	0.349	0.262	1.127	0.270	0.442	0.569	19.40	0.311	0.569		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.03	3500.01	633334	QFT+QPRM	0.0	20.10	19.71	135	0	Left	5	1.000	0.417	1.094	1.094	0.454	0.684	19.40	0.931	0.582		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.03	3500.01	633334	QFT+QPRM	0.0	20.10	19.52	270	0	Left	5	1.019	0.415	1.143	1.154	0.474	0.721	19.40	0.982	0.614		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.00	3500.01	633334	QFT+QPRM	0.0	20.10	19.60	1	1	Left	5	1.040	0.428	1.122	1.167	0.480	0.729	19.40	0.993	0.601		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	19.40	18.18	1	137	Back	5	0.178	0.249	1.124	0.765	0.330	0.478	18.70	0.611	0.407		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	19.40	18.27	135	0	Back	5	0.521	0.223	1.297	0.676	0.289	0.423	18.70	0.575	0.359		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	19.40	18.18	1	137	Left	5	0.815	0.324	1.324	1.079	0.420	0.674	18.70	0.918	0.524		
Body	NR Band n77 DoD	100	QPSK	1a	TC93	1:1	0.01	3500.01	633334	QFT+QPRM	0.0	19.40	18.27	135	0	Left	5	0.774	0.305	1.297	1.004	0.396	0.628	18.70	0.855	0.534		
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 10-88 Antenna 2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [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]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.04	3500.01	633334	DFT+QPRM	0.0	18.70	17.21	1	137	Back	5	0.711	0.293	1.409	1.002	0.413	0.626	17.90	0.833	0.521		
	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.01	3500.01	633334	DFT+QPRM	0.0	18.70	17.28	135	0	Back	5	0.885	0.348	1.387	1.188	0.481	0.741	17.90	0.986	0.615		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.01	3500.01	633334	DFT+QPRM	0.0	18.70	17.10	270	0	Back	5	0.761	0.312	1.416	1.078	0.442	0.674	17.90	0.887	0.561		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.01	3500.01	633334	CP-QPRM	0.0	18.70	17.28	1	137	Top	5	0.420	0.155	1.409	0.420	0.155	0.242	17.90	0.420	0.258		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.02	3500.01	633334	DFT+QPRM	0.0	18.70	17.21	1	137	Top	5	0.021	0.002	1.409	0.030	0.014	0.019	17.90	0.025	0.015		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.09	3500.01	633334	DFT+QPRM	0.0	18.70	17.28	135	0	Top	5	0.023	0.008	1.387	0.031	0.011	0.019	17.90	0.026	0.016		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.00	3500.01	633334	DFT+QPRM	0.0	18.70	17.21	1	137	Bottom	5	0.152	0.071	1.409	0.134	0.100	0.134	17.90	0.178	0.111		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.03	3500.01	633334	DFT+QPRM	0.0	18.70	17.28	135	0	Bottom	5	0.186	0.088	1.387	0.258	0.122	0.161	17.90	0.215	0.134		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.01	3500.01	633334	DFT+QPRM	0.0	18.70	17.21	1	137	Right	5	0.263	0.114	1.409	0.371	0.161	0.232	17.90	0.309	0.193		
	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.01	3500.01	633334	DFT+QPRM	0.0	18.70	17.28	135	0	Right	5	0.295	0.127	1.387	0.409	0.174	0.256	17.90	0.340	0.211		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.04	3500.01	633334	DFT+QPRM	0.0	18.70	17.21	1	137	Left	5	0.019	0.004	1.409	0.014	0.006	0.009	17.90	0.012	0.008		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.08	3500.01	633334	DFT+QPRM	0.0	18.70	17.28	135	0	Left	5	0.009	0.004	1.387	0.012	0.006	0.008	17.90	0.010	0.006		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.06	3500.01	633334	DFT+QPRM	0.0	18.50	18.04	1	137	Back	5	0.814	0.364	1.112	0.972	0.394	0.608	17.70	0.808	0.503		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.05	3500.01	633334	DFT+QPRM	0.0	18.50	18.04	135	0	Back	5	1.040	0.405	1.109	1.120	0.446	0.700	17.70	0.912	0.563		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.02	3500.01	633334	DFT+QPRM	0.0	18.50	18.05	135	0	Back	5	1.000	0.404	1.109	1.064	0.462	0.718	17.70	0.868	0.605	A29	
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.06	3500.01	633334	DFT+QPRM	0.0	18.50	18.04	1	137	Right	5	0.542	0.232	1.112	0.603	0.258	0.377	17.70	0.502	0.314		
Body	NR Band n77 DoD	100	QPSK	2	QMMG	1:1	-0.08	3500.01	633334	DFT+QPRM	0.0	18.50	18.05	135	0	Right	5	0.536	0.233	1.109	0.594	0.256	0.371	17.70	0.494	0.309		
ANSI/IEEE C63.19-2 - 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 10-89 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [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]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.03	3500.01	633334	QFT+QPRM	0.0	21.40	20.30	1	137	Back	5	0.908	0.402	1.288	1.170	0.582	0.731	20.70	0.996	0.623		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	21.40	20.40	135	0	Back	5	0.853	0.428	1.259	1.074	0.539	0.671	20.70	0.914	0.571		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.06	3500.01	633334	QFT+QPRM	0.0	21.40	20.28	270	0	Back	5	0.869	0.427	1.284	1.074	0.560	0.703	20.70	0.927	0.588		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.02	3500.01	633334	CP-QPRM	0.0	21.40	20.17	1	1	Back	5	0.805	0.406	1.327	1.068	0.539	0.668	20.70	0.909	0.568		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	21.40	20.40	135	0	Top	5	0.617	0.233	1.288	0.795	0.300	0.407	20.70	0.677	0.431		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	21.40	20.40	135	0	Top	5	0.618	0.233	1.288	0.810	0.307	0.420	20.70	0.685	0.431		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	21.40	20.28	270	0	Top	5	0.603	0.229	1.274	0.780	0.296	0.408	20.70	0.664	0.415		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.07	3500.01	633334	QFT+QPRM	0.0	21.40	20.36			Bottom	5	0.012	0.004	1.188	0.015	0.005	0.009	20.70	0.015	0.005		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.08	3500.01	633334	QFT+QPRM	0.0	21.40	20.30			Bottom	5	0.009	0.003	1.200	0.009	0.004	0.008	20.70	0.008	0.004		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.05	3500.01	633334	QFT+QPRM	0.0	21.40	20.30	1	137	Right	5	0.009	0.002	1.288	0.037	0.015	0.033	20.70	0.033	0.019		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	21.40	20.30	1	137	Left	5	0.009	0.002	1.288	0.037	0.015	0.033	20.70	0.033	0.019		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.11	3500.01	633334	QFT+QPRM	0.0	21.40	20.30	1	137	Left	5	0.004	0.004	1.288	0.070	0.033	0.044	20.70	0.060	0.038		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.08	3500.01	633334	QFT+QPRM	0.0	21.40	20.40	135	0	Left	5	0.057	0.027	1.259	0.077	0.034	0.045	20.70	0.063	0.038		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	21.40	20.30	1	137	Back	5	0.067	0.040	1.310	0.066	0.030	0.040	20.70	0.062	0.037		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.02	3500.01	633334	QFT+QPRM	0.0	21.30	20.15	135	0	Back	5	0.971	0.406	1.199	1.164	0.585	0.728	20.60	0.991	0.610		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.01	3500.01	633334	QFT+QPRM	0.0	21.30	20.15	225	0	Back	5	0.971	0.406	1.199	1.164	0.585	0.728	20.60	0.991	0.610		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.05	3500.01	633334	CP-QPRM	0.0	21.30	20.15			Back	5	0.793	0.384	1.303	0.951	0.400	0.613	20.60	0.935	0.522		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.03	3500.01	633334	QFT+QPRM	0.0	21.30	20.40	1	137	Top	5	0.389	0.151	1.239	0.471	0.186	0.294	20.60	0.401	0.251		
Body	NR Band n77 DoD	100	QPSK	3b	LV99	1:1	-0.05	3500.01	633334	QFT+QPRM	0.0	21.30	20.15	135	0	Top	5	0.472	0.181	1.199	0.519	0.219	0.344	20.60	0.482	0.303		
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																					0.5 W/kg (mW/g)							
Spatial Peak																					averaged over 1 gram							
Uncontrolled Exposure/General Population																												

10.30 NR Band n77 Standalone SAR

Table 10-91 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)	Plot #
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.69	1	137	Back	5	0.578	0.242	1.050	0.607	0.254	0.379	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.77	135	0	Back	5	0.601	0.251	1.030	0.619	0.259	0.387	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.69	1	137	Left	5	0.884	0.338	1.050	0.928	0.355	0.580	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	18.90	18.77	135	0	Left	5	0.905	0.351	1.030	0.936	0.362	0.585	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.33	1	137	Back	5	0.497	0.194	1.114	0.554	0.216	0.346	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.36	135	0	Back	5	0.495	0.194	1.107	0.548	0.215	0.343	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.13	1	137	Top	5	0.004	0.000	1.114	0.004	0.000	0.003	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.36	135	0	Top	5	0.008	0.003	1.107	0.009	0.003	0.006	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.33	1	137	Bottom	5	0.068	0.026	1.114	0.076	0.029	0.048	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.36	135	0	Bottom	5	0.062	0.023	1.107	0.069	0.025	0.043	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.33	1	137	Right	5	0.001	0.000	1.114	0.001	0.000	0.001	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.36	135	0	Right	5	0.002	0.000	1.107	0.002	0.000	0.001	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.33	1	137	Left	5	0.847	0.312	1.114	0.847	0.320	0.529	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.36	135	0	Left	5	0.805	0.298	1.107	0.893	0.330	0.557	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	19.80	19.32	270	0	Left	5	0.849	0.312	1.117	0.948	0.349	0.593	
Body	NR Band n77	100	QPSK	1a	V14K0	1:1	-0.02	3930.00	662000	CP-OFDM	0.0	19.80	19.04	1	1	Left	5	0.713	0.272	1.191	0.849	0.324	0.531	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																								

Table 10-92 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 Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate (1g SAR)	Plot #
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.47	1	137	Back	5	0.633	0.271	1.268	0.803	0.344	0.502	0.803	0.344	0.502	0.418
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.69	135	0	Back	5	0.689	0.297	1.205	0.830	0.358	0.519	0.830	0.358	0.519	0.431
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.46	270	0	Back	5	0.637	0.273	1.271	0.806	0.347	0.502	0.806	0.347	0.502	0.421
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.47	1	137	Top	5	0.046	0.020	1.268	0.061	0.028	0.038	0.061	0.028	0.038	0.038
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.69	135	0	Top	5	0.046	0.020	1.205	0.065	0.027	0.034	0.065	0.027	0.034	0.034
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.69	135	0	Bottom	5	0.374	0.160	1.268	0.474	0.165	0.296	0.474	0.165	0.296	0.296
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.69	135	0	Bottom	5	0.383	0.163	1.205	0.482	0.163	0.289	0.482	0.163	0.289	0.289
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.47	1	137	Right	5	0.837	0.305	1.268	1.063	0.425	0.683	1.063	0.425	0.683	0.683
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.69	135	0	Right	5	0.879	0.361	1.205	1.099	0.431	0.692	1.099	0.431	0.692	0.692
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.46	270	0	Right	5	0.826	0.368	1.271	1.177	0.468	0.736	1.177	0.468	0.736	0.736
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.01	3750.00	650000	CP-OFDM	0.0	21.50	20.47	1	1	Right	5	0.883	0.365	1.311	1.268	0.418	0.653	1.268	0.418	0.653	0.653
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.47	1	137	Left	5	0.002	0.000	1.268	0.003	0.000	0.002	0.003	0.000	0.002	0.002
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	21.50	20.69	135	0	Left	5	0.005	0.002	1.205	0.006	0.002	0.004	0.006	0.002	0.004	0.004
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.06	3930.00	662000	DFT-s-OFDM	0.0	20.80	19.44	1	137	Back	5	0.534	0.183	1.400	0.676	0.228	0.485	0.676	0.228	0.485	0.485
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	20.80	19.58	135	138	Back	5	0.672	0.189	1.355	0.911	0.256	0.510	0.911	0.256	0.510	0.758
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	20.80	19.44	1	137	Bottom	5	0.738	0.221	1.400	1.033	0.309	0.646	1.033	0.309	0.646	0.646
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.06	3930.00	662000	DFT-s-OFDM	0.0	20.80	19.58	135	138	Bottom	5	0.730	0.221	1.355	0.889	0.294	0.588	0.889	0.294	0.588	0.588
Body	NR Band n77	100	QPSK	2	TC931	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	20.80	19.44	1	137	Right	5	0.135	0.059	1.400	0.189	0.083	0.118	0.189	0.083	0.118	0.098
Body	NR Band n77	100	QPSK	2	TC931	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	20.80	19.58	135	138	Right	5	0.130	0.054	1.355	0.163	0.073	0.102	0.163	0.073	0.102	0.102
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 10-93 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 Rate (1g SAR)	Simultaneous Tune-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Rate (1g SAR)	Plot #
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.66	1	137	Back	5	0.836	0.308	1.300	1.074	0.517	0.671	21.10	0.814	0.571	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.75	135	0	Back	5	0.826	0.402	1.274	1.052	0.512	0.658	21.10	0.895	0.559	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.66	270	0	Back	5	0.836	0.402	1.274	1.052	0.512	0.658	21.10	0.919	0.559	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.13	3750.00	650000	CP-OFDM	0.0	21.80	20.70	1	1	Back	5	0.813	0.397	1.388	1.047	0.511	0.654	21.10	0.891	0.557	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.66	1	137	Top	5	0.518	0.189	1.300	0.673	0.250	0.421	21.10	0.373	0.384	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.75	135	0	Top	5	0.587	0.221	1.274	0.712	0.270	0.451	21.10	0.413	0.384	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.66	1	137	Bottom	5	0.002	0.000	1.300	0.003	0.000	0.002	21.10	0.003	0.002	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.66	270	0	Bottom	5	0.836	0.402	1.274	1.052	0.512	0.658	21.10	0.895	0.559	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.66	1	137	Right	5	0.028	0.000	1.300	0.036	0.001	0.003	21.10	0.031	0.002	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.75	135	0	Right	5	0.029	0.001	1.274	0.037	0.001	0.003	21.10	0.031	0.019	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.17	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.75	1	1	Right	5	0.001	0.000	1.300	0.001	0.000	0.001	21.10	0.001	0.001	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.10	3750.00	650000	DFT-s-OFDM	0.0	21.80	20.75	135	0	Left	5	0.041	0.017	1.274	0.052	0.022	0.023	21.10	0.044	0.028	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.05	3900.00	662000	DFT-s-OFDM	0.0	20.70	19.80	1	1	Back	5	0.541	0.201	1.230	0.665	0.311	0.419	20.00	0.566	0.814	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.05	3900.00	662000	DFT-s-OFDM	0.0	20.70	19.80	135	0	Back	5	0.541	0.201	1.230	0.665	0.311	0.419	20.00	0.566	0.814	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	-0.01	3900.00	662000	DFT-s-OFDM	0.0	20.70	19.80	1	1	Top	5	0.067	0.033	1.280	0.788	0.284	0.387	20.00	0.566	0.814	
Body	NR Band n77	100	QPSK	3b	RT2CD	1:1	0.14	3900.00	662000	DFT-s-OFDM	0.0	20.70	19.95	135	0	Top	5	0.004	0.001	1.189	0.005	0.333	0.088	20.00	0.834	0.569	
ANR/EEC CEN 1302 - SAFETY LIMIT																		Body									
Unintended Exposure/General Population																		1.6 W/(kg) SAR averaged over 1g/cm									

10.31 2.4 GHz WIFI SISO Standalone SAR

Table 10-95 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	9VFDY	97.01	0.01	2412	1	1.0	20.00	19.18	Back	5	0.876	0.419	1.208	1.031	1.091	0.522	0.682	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.07	2437	6	1.0	20.00	19.07	Back	5	0.889	0.423	1.239	1.031	1.136	0.540	0.710	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.01	2462	11	1.0	20.00	19.02	Back	5	0.922	0.433	1.253	1.031	1.281	0.559	0.744	A31
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	0.00	2412	1	1.0	20.00	19.18	Top	5	0.487	0.198	1.208	1.031	0.607	0.247	0.379	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.07	2412	1	1.0	20.00	19.18	Bottom	5	0.060	0.027	1.208	1.031	0.075	0.034	0.047	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.01	2412	1	1.0	20.00	19.18	Right	5	0.761	0.341	1.208	1.031	0.948	0.425	0.593	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.01	2412	6	1.0	20.00	19.07	Right	5	0.717	0.320	1.239	1.031	0.916	0.409	0.573	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.04	2462	11	1.0	20.00	19.02	Right	5	0.694	0.312	1.253	1.031	0.897	0.403	0.561	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	0.06	2412	1	1.0	20.00	19.18	Left	5	0.012	0.006	1.208	1.031	0.015	0.007	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 10-96 Antenna 3a Reduced Budget

Exposure	Band / Mode	Bandwidth [kHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [kHz]	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 Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	0.03	2437	6	1.0	17.00	16.19	Back	5	0.409	0.217	1.205	1.031	0.570	0.270	0.368	15.40	0.394	0.246	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	-0.03	2437	6	1.0	17.00	16.19	Top	5	0.251	0.102	1.205	1.031	0.312	0.127	0.395	15.40	0.216	0.135	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	0.05	2437	6	1.0	17.00	16.19	Bottom	5	0.018	0.008	1.205	1.031	0.022	0.010	0.014	15.40	0.015	0.009	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	0.02	2437	6	1.0	17.00	16.19	Right	5	0.569	0.363	1.205	1.031	0.455	0.284	0.540	15.40	0.335	0.197	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	9VFDY	97.01	0.06	2437	6	1.0	17.00	16.19	Left	5	0.004	0.002	1.205	1.031	0.005	0.002	0.003	15.40	0.003	0.002	
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 10-97 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	4K2N7	97.01	-0.03	2412	1	1.0	20.00	18.97	Back	5	0.826	0.413	1.268	1.031	1.080	0.540	0.675	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.01	2437	6	1.0	20.00	19.10	Back	5	0.896	0.452	1.230	1.031	1.136	0.573	0.710	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	0.00	2462	11	1.0	20.00	19.13	Back	5	0.905	0.450	1.222	1.031	1.140	0.567	0.713	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.07	2462	11	1.0	20.00	19.13	Top	5	0.043	0.021	1.222	1.031	0.054	0.026	0.034	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	0.00	2462	11	1.0	20.00	19.13	Bottom	5	0.387	0.160	1.222	1.031	0.488	0.202	0.305	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	0.02	2462	11	1.0	20.00	19.13	Right	5	0.005	0.002	1.222	1.031	0.006	0.003	0.004	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.01	2412	1	1.0	20.00	18.97	Left	5	0.796	0.366	1.268	1.031	1.041	0.478	0.651	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	0.01	2437	6	1.0	20.00	19.10	Left	5	0.808	0.373	1.230	1.031	1.025	0.473	0.641	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.03	2462	11	1.0	20.00	19.13	Left	5	0.817	0.366	1.222	1.031	1.029	0.461	0.643	
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 10-98 Antenna 1a Reduced Budget

Exposure	Band / Mode	Bandwidth [kHz]	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 Time-up Power	Simultaneous Reported 1g SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.04	2437	6	1.0	17.00	16.12	Back	5	0.456	0.234	1.225	1.031	0.576	0.296	0.360	15.40	0.398	0.249	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.15	2437	6	1.0	17.00	16.12	Top	5	0.022	0.010	1.225	1.031	0.038	0.018	0.018	15.40	0.019	0.012	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	0.02	2437	6	1.0	17.00	16.12	Bottom	5	0.221	0.093	1.225	1.031	0.279	0.117	0.174	15.40	0.193	0.121	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	0.01	2437	6	1.0	17.00	16.12	Right	5	0.003	0.000	1.225	1.031	0.004	0.000	0.003	15.40	0.003	0.002	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	4K2N7	97.01	-0.01	2437	6	1.0	17.00	16.12	Left	5	0.424	0.196	1.225	1.031	0.536	0.248	0.355	15.40	0.371	0.232	
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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10.32 5 GHz WIFI SISO Standalone SAR

Table 10-99 Antenna WF5T U-NII-2A

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.04	5270	54	U-NII-2A	13.5	19.50	18.35	Back	5	0.120	0.050	1.303	1.061	0.066	0.069	0.104	
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.06	5270	54	U-NII-2A	13.5	19.50	18.35	Top	5	0.000	0.000	1.303	1.061	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.04	5270	54	U-NII-2A	13.5	19.50	18.35	Bottom	5	0.000	0.000	1.303	1.061	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.04	5270	54	U-NII-2A	13.5	19.50	18.35	Right	5	0.037	0.007	1.303	1.061	0.051	0.010	0.032	
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.07	5270	54	U-NII-2A	13.5	19.50	18.35	Left	5	0.810	0.335	1.303	1.061	1.120	0.463	0.700	
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.04	5270	54	U-NII-2A	13.5	19.50	18.35	Left	5	0.799	0.316	1.303	1.061	1.048	0.429	0.695	
Body	5 GHz WiFi/ IEEE 802.11ac	40	OFDM	WF5T	D52JN	94.27	0.02	5310	62	U-NII-2A	13.5	17.70	16.82	Left	5	0.469	0.191	1.225	1.061	0.610	0.248	0.381	
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 10-100 Antenna WF5T U-NII-2A Reduced Budget

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	WF5T	D52JN	90.65	0.08	5290	58	U-NII-2A	29.3	17.00	15.92	Back	5	0.093	0.017	1.282	1.103	0.075	0.004	0.047	15.60	0.054	0.034	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	D52JN	90.65	0.03	5290	58	U-NII-2A	29.3	17.00	15.92	Top	5	0.001	0.000	1.282	1.103	0.001	0.000	0.001	15.60	0.001	0.001	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	D52JN	90.65	0.08	5290	58	U-NII-2A	29.3	17.00	15.92	Bottom	5	0.000	0.000	1.282	1.103	0.000	0.000	0.000	15.60	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	D52JN	90.65	0.03	5290	58	U-NII-2A	29.3	17.00	15.92	Right	5	0.000	0.000	1.282	1.103	0.000	0.000	0.000	15.60	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	D52JN	90.65	0.03	5290	58	U-NII-2A	29.3	17.00	15.92	Left	5	0.385	0.156	1.282	1.103	0.344	0.221	0.340	15.60	0.094	0.246	
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 10-101 Antenna WF5T U-NII-2C

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	WF5T	Q0MAG	90.65	0.06	5610	122	U-NII-2C	29.3	18.50	17.37	Back	5	0.119	0.048	1.297	1.103	0.120	0.069	0.106				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.07	5610	122	U-NII-2C	29.3	18.50	17.37	Top	5	0.008	0.001	1.297	1.103	0.011	0.001	0.007				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.01	5610	122	U-NII-2C	29.3	18.50	17.37	Bottom	5	0.000	0.000	1.297	1.103	0.000	0.000	0.000				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.05	5610	122	U-NII-2C	29.3	18.50	17.37	Right	5	0.025	0.006	1.297	1.103	0.026	0.009	0.023				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	-0.10	5530	106	U-NII-2C	29.3	15.50	14.44	Left	5	0.330	0.130	1.276	1.103	0.450	0.183	0.261				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.05	5610	122	U-NII-2C	29.3	18.50	17.37	Left	5	0.784	0.322	1.287	1.103	1.122	0.461	0.701				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	-0.14	5690	138	U-NII-2C	29.3	18.50	17.26	Left	5	0.812	0.333	1.330	1.103	1.281	0.489	0.744				
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 10-102 Antenna WF5T U-NII-2C Reduced Budget

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	WF5T	Q0MAG	90.65	0.01	5690	138	U-NII-2C	29.3	16.25	15.11	Back	5	0.060	0.015	1.300	1.103	0.072	0.002	0.045	14.45	0.048	0.030	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.05	5690	138	U-NII-2C	29.3	16.25	15.11	Top	5	0.000	0.000	1.300	1.103	0.000	0.000	0.000	14.45	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.07	5690	138	U-NII-2C	29.3	16.25	15.11	Bottom	5	0.000	0.000	1.300	1.103	0.000	0.000	0.000	14.45	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.04	5690	138	U-NII-2C	29.3	16.25	15.11	Right	5	0.012	0.001	1.300	1.103	0.017	0.004	0.011	14.45	0.011	0.007	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	Q0MAG	90.65	0.07	5690	138	U-NII-2C	29.3	16.25	15.11	Left	5	0.413	0.164	1.300	1.103	0.392	0.235	0.370	14.45	0.091	0.244	
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 WF5T U-NII-3

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	WF5T	VV16P	90.65	-0.15	5775	155	U-NII-3	29.3	18.50	17.36	Back	5	0.138	0.057	1.300	1.103	0.198	0.082	0.124		
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.01	5775	155	U-NII-3	29.3	18.50	17.36	Top	5	0.002	0.000	1.300	1.103	0.003	0.000	0.002		
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.06	5775	155	U-NII-3	29.3	18.50	17.36	Bottom	5	0.000	0.000	1.300	1.103	0.000	0.000	0.000		
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.01	5775	155	U-NII-3	29.3	18.50	17.36	Right	5	0.047	0.013	1.300	1.103	0.067	0.027	0.042		
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.04	5775	155	U-NII-3	29.3	18.50	17.36	Left	5	0.825	0.335	1.300	1.103	1.183	0.480	0.739	A32	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

Table 10-104 Antenna WF5T U-NII-3 Reduced Budget

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	WF5T	VV16P	90.65	0.00	5775	155	U-NII-3	29.3	16.00	14.61	Back	5	0.062	0.022	1.315	1.103	0.090	0.012	0.056	14.40	0.062	0.039	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.03	5775	155	U-NII-3	29.3	16.00	14.61	Top	5	0.000	0.000	1.315	1.103	0.000	0.000	0.000	14.40	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.01	5775	155	U-NII-3	29.3	16.00	14.61	Bottom	5	0.000	0.000	1.315	1.103	0.000	0.000	0.000	14.40	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.01	5775	155	U-NII-3	29.3	16.00	14.61	Right	5	0.012	0.000	1.315	1.103	0.017	0.000	0.011	14.40	0.011	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF5T	VV16P	90.65	0.06	5775	155	U-NII-3	29.3	16.00	14.61	Left	5	0.266	0.107	1.315	1.103	0.274	0.238	0.359	14.40	0.097	0.248	
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 10-105 Antenna WF5B U-NII-2A

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	D52JN	94.27	-0.20	5270	54	U-NII-2A	13.5	18.20	16.87	Back	5	0.087	0.034	1.358	1.061	0.125	0.049	0.078	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	D52JN	94.27	0.03	5270	54	U-NII-2A	13.5	18.20	16.87	Top	5	0.000	0.000	1.358	1.061	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	D52JN	94.27	0.01	5270	54	U-NII-2A	13.5	18.20	16.87	Bottom	5	0.004	0.000	1.358	1.061	0.006	0.000	0.004	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	D52JN	94.27	0.04	5270	54	U-NII-2A	13.5	18.20	16.87	Right	5	0.054	0.021	1.358	1.061	0.078	0.030	0.049	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	D52JN	94.27	-0.04	5270	54	U-NII-2A	13.5	18.20	16.87	Left	5	0.505	0.213	1.358	1.061	0.728	0.307	0.455	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-106 Antenna WF5B U-NII-2A Reduced Budget

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	WF5B	D52JN	90.68	-0.06	5290	58	U-NII-2A	29.3	16.50	15.67	Back	5	0.086	0.035	1.213	1.103	0.115	0.047	0.072	15.40	0.089	0.056	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	D52JN	90.68	0.07	5290	58	U-NII-2A	29.3	16.50	15.67	Top	5	0.000	0.000	1.213	1.103	0.000	0.000	0.000	15.40	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	D52JN	90.68	-0.08	5290	58	U-NII-2A	29.3	16.50	15.67	Bottom	5	0.001	0.000	1.213	1.103	0.001	0.000	0.001	15.40	0.001	0.001	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	D52JN	90.68	0.07	5290	58	U-NII-2A	29.3	16.50	15.67	Right	5	0.036	0.012	1.213	1.103	0.048	0.016	0.030	15.40	0.037	0.023	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	D52JN	90.68	-0.10	5290	58	U-NII-2A	29.3	16.50	15.67	Left	5	0.382	0.158	1.213	1.103	0.510	0.211	0.319	15.40	0.396	0.248	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-107 Antenna WF5B U-NII-2C

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.05	5610	122	U-NII-2C	29.3	18.20	16.81	Back	5	0.067	0.024	1.377	1.103	0.102	0.036	0.064		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	0.03	5610	122	U-NII-2C	29.3	18.20	16.81	Top	5	0.000	0.000	1.377	1.103	0.000	0.000	0.000		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	0.03	5610	122	U-NII-2C	29.3	18.20	16.81	Bottom	5	0.005	0.000	1.377	1.103	0.008	0.000	0.005		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.05	5610	122	U-NII-2C	29.3	18.20	16.81	Right	5	0.020	0.007	1.377	1.103	0.030	0.011	0.019		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.05	5530	106	U-NII-2C	29.3	15.50	14.03	Left	5	0.263	0.105	1.403	1.103	0.407	0.162	0.254		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.07	5610	122	U-NII-2C	29.3	18.20	16.81	Left	5	0.568	0.232	1.377	1.103	0.863	0.352	0.539		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.05	5690	138	U-NII-2C	29.3	18.20	16.77	Left	5	0.556	0.228	1.390	1.103	0.852	0.350	0.533		
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 10-108 Antenna WF5B U-NII-2C Reduced Budget

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	WF5B	W9J3G	90.68	-0.02	5690	138	U-NII-2C	29.3	16.50	15.31	Back	5	0.060	0.022	1.315	1.103	0.087	0.032	0.054	14.70	0.057	0.036	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	0.08	5690	138	U-NII-2C	29.3	16.50	15.31	Top	5	0.000	0.000	1.315	1.103	0.000	0.000	0.000	14.70	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.08	5690	138	U-NII-2C	29.3	16.50	15.31	Bottom	5	0.000	0.000	1.315	1.103	0.000	0.000	0.000	14.70	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	0.06	5690	138	U-NII-2C	29.3	16.50	15.31	Right	5	0.011	0.002	1.315	1.103	0.016	0.003	0.010	14.70	0.011	0.007	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	W9J3G	90.68	-0.15	5690	138	U-NII-2C	29.3	16.50	15.31	Left	5	0.409	0.167	1.315	1.103	0.593	0.242	0.371	14.70	0.392	0.245	
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 WF5B U-NII-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	0.01	5775	155	U-NII-3	29.3	18.20	16.68	Back	5	0.077	0.032	1.419	1.103	0.121	0.050	0.076	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	0.03	5775	155	U-NII-3	29.3	18.20	16.68	Top	5	0.000	0.000	1.419	1.103	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	0.01	5775	155	U-NII-3	29.3	18.20	16.68	Bottom	5	0.009	0.000	1.419	1.103	0.014	0.000	0.009	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	0.06	5775	155	U-NII-3	29.3	18.20	16.68	Right	5	0.021	0.007	1.419	1.103	0.033	0.011	0.021	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	0.01	5775	155	U-NII-3	29.3	18.20	16.68	Left	5	0.524	0.214	1.419	1.103	0.820	0.335	0.513	
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 10-110 Antenna WF5B U-NII-3 Reduced Budget

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	WF5B	CF4P6	90.68	0.00	5775	155	U-NII-3	29.3	16.75	15.12	Back	5	0.070	0.028	1.455	1.103	0.112	0.045	0.070	13.05	0.076	0.048	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	-0.02	5775	155	U-NII-3	29.3	16.75	15.12	Top	5	0.000	0.000	1.455	1.103	0.000	0.000	0.000	13.05	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	0.05	5775	155	U-NII-3	29.3	16.75	15.12	Bottom	5	0.000	0.000	1.455	1.103	0.000	0.000	0.000	13.05	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	-0.11	5775	155	U-NII-3	29.3	16.75	15.12	Right	5	0.000	0.000	1.455	1.103	0.000	0.000	0.000	13.05	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	CF4P6	90.68	-0.08	5775	155	U-NII-3	29.3	16.75	15.12	Left	5	0.368	0.150	1.455	1.103	0.591	0.241	0.369	13.05	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										

FCC ID: BCGA3596	DUT Type: Tablet Device	RF EXPOSURE TEST REPORT										Approved by: Technical Manager									
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Table 10-111 Antenna 1b U-NII-2A

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	F2227	94.27	-0.02	5270	54	U-NII-2A	13.5	18.20	16.80	Back	5	0.494	0.162	1.380	1.061	0.723	0.237	0.452	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	F2227	94.27	0.05	5270	54	U-NII-2A	13.5	18.20	16.80	Top	5	0.006	0.000	1.380	1.061	0.009	0.000	0.006	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	F2227	94.27	-0.02	5270	54	U-NII-2A	13.5	18.20	16.80	Bottom	5	0.576	0.155	1.380	1.061	0.843	0.242	0.527	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	F2227	94.27	-0.08	5310	62	U-NII-2A	13.5	17.70	16.38	Bottom	5	0.510	0.146	1.355	1.061	0.733	0.210	0.458	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	F2227	94.27	0.01	5270	54	U-NII-2A	13.5	18.20	16.80	Right	5	0.019	0.005	1.380	1.061	0.028	0.007	0.018	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	1b	F2227	94.27	0.03	5270	54	U-NII-2A	13.5	18.20	16.80	Left	5	0.061	0.017	1.380	1.061	0.089	0.025	0.056	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-112 Antenna 1b U-NII-2A Reduced Budget

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 Tuned-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	F2227	90.68	-0.05	5290	58	U-NII-2A	29.3	17.00	15.81	Back	5	0.403	0.131	1.315	1.103	0.585	0.190	0.366	15.20	0.387	0.242			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	F2227	90.68	-0.09	5290	58	U-NII-2A	29.3	17.00	15.81	Top	5	0.000	0.000	1.315	1.103	0.000	0.000	15.20	0.000	0.000				
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	F2227	90.68	-0.09	5290	58	U-NII-2A	29.3	17.00	15.81	Bottom	5	0.409	0.131	1.315	1.103	0.593	0.161	0.371	15.20	0.392	0.245			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	F2227	90.68	0.01	5290	58	U-NII-2A	29.3	17.00	15.81	Right	5	0.010	0.002	1.315	1.103	0.015	0.003	0.009	15.20	0.010	0.006			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	F2227	90.68	-0.10	5290	58	U-NII-2A	29.3	17.00	15.81	Left	5	0.025	0.006	1.315	1.103	0.036	0.009	0.021	15.20	0.024	0.011			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 10-113 Antenna 1b U-NII-2C

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	1b	MACCL	90.48	0.02	5530	106	U-NII-2C	29.3	15.50	13.89	Back	5	0.328	0.111	1.449	1.105	0.525	0.178	0.328				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.06	5610	122	U-NII-2C	29.3	18.00	16.91	Back	5	0.772	0.272	1.285	1.105	1.095	0.386	0.684				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.08	5690	138	U-NII-2C	29.3	18.00	16.91	Back	5	0.414	0.146	1.276	1.105	0.584	0.206	0.395				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.05	5690	138	U-NII-2C	29.3	18.00	16.81	Back	5	0.817	0.291	1.315	1.105	1.187	0.423	0.742				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.05	5610	122	U-NII-2C	29.3	18.00	16.91	Top	5	0.003	0.001	1.285	1.105	0.004	0.001	0.003				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.03	5610	122	U-NII-2C	29.3	18.00	16.91	Bottom	5	0.560	0.175	1.285	1.105	0.795	0.248	0.497				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.07	5610	122	U-NII-2C	29.3	18.00	16.91	Right	5	0.021	0.008	1.285	1.105	0.033	0.011	0.021				
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.03	5610	122	U-NII-2C	29.3	18.00	16.91	Left	5	0.034	0.008	1.285	1.105	0.048	0.011	0.030				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 10-114 Antenna 1b U-NII-2C Reduced Budget

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 Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.10	5690	138	U-NII-2C	29.3	14.25	13.19	Back	5	0.414	0.146	1.276	1.105	0.584	0.206	0.365	12.55	0.395	0.247
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.21	5690	138	U-NII-2C	29.3	14.25	13.19	Top	5	0.000	0.000	1.276	1.105	0.000	0.000	0.000	12.55	0.000	0.000
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.05	5690	138	U-NII-2C	29.3	14.25	13.19	Bottom	5	0.265	0.086	1.276	1.105	0.402	0.124	0.251	12.55	0.272	0.170
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.07	5690	138	U-NII-2C	29.3	14.25	13.19	Right	5	0.017	0.006	1.276	1.105	0.024	0.008	0.015	12.55	0.016	0.010
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.08	5690	138	U-NII-2C	29.3	14.25	13.19	Left	5	0.029	0.003	1.276	1.105	0.041	0.004	0.026	12.55	0.028	0.018
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body									
Spatial Peak																1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																averaged over 1 gram									

Table 10-115 Antenna 1b U-NII-3

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	MACCL	90.48	-0.08	5775	155	U-NII-3	29.3	16.85	16.34	Back	5	0.780	0.279	1.125	1.105	0.970	0.347	0.606				
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.01	5775	155	U-NII-3	29.3	16.85	16.34	Top	5	0.007	0.000	1.125	1.105	0.009	0.000	0.006				
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.12	5775	155	U-NII-3	29.3	16.85	16.34	Bottom	5	0.571	0.176	1.125	1.105	0.710	0.219	0.444				
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.08	5775	155	U-NII-3	29.3	16.85	16.34	Right	5	0.031	0.011	1.125	1.105	0.039	0.014	0.024				
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.08	5775	155	U-NII-3	29.3	16.85	16.34	Left	5	0.026	0.007	1.125	1.105	0.036	0.009	0.023				
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 10-116 Antenna 1b U-NII-3 Reduced Budget

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 Reported 1g SAR [W/kg]	Simultaneous Reported Exposure Ratio (1g SAR)	Plot #	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.03	5775	155	U-NII-3	29.3	14.50	13.17	Back	5	0.206	0.140	1.239	1.105	0.192	0.139	13.10	0.193	0.246		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.09	5775	155	U-NII-3	29.3	14.50	13.17	Top	5	0.000	0.000	1.239	1.105	0.000	0.000	13.10	0.000	0.000		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	-0.06	5775	155	U-NII-3	29.3	14.50	13.17	Bottom	5	0.282	0.082	1.239	1.105	0.386	0.112	0.241	13.10	0.280	0.179	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.03	5775	155	U-NII-3	29.3	14.50	13.17	Right	5	0.010	0.003	1.239	1.105	0.014	0.004	0.009	13.10	0.010	0.005	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	1b	MACCL	90.48	0.05	5775	155	U-NII-3	29.3	14.50	13.17	Left	5	0.016	0.003	1.239	1.105	0.022	0.004	0.014	13.10	0.016	0.010	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA3596	DUT Type: Tablet Device	RF EXPOSURE TEST REPORT																			Approved by: Technical Manager		
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10.33 6 GHz WIFI SISO Standalone SAR and APD

Table 10-117 Antenna WF5T

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 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.01	6025	15	68.1	14.25	12.89	Back	5	0.028	0.012	1.368	1.161	0.044	0.019	0.028	12.95	0.033	0.021	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.01	6025	15	68.1	14.25	12.89	Top	5	0.000	0.000	1.368	1.161	0.000	0.000	0.000	12.95	0.000	0.000	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.04	6025	15	68.1	14.25	12.89	Bottom	5	0.000	0.000	1.368	1.161	0.000	0.000	0.000	12.95	0.000	0.000	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.09	6025	15	68.1	14.25	12.89	Right	5	0.023	0.010	1.368	1.161	0.037	0.016	0.023	12.95	0.027	0.017	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.01	6025	15	68.1	14.25	12.89	Left	5	0.215	0.087	1.368	1.161	0.341	0.138	0.215	12.95	0.253	0.158	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.03	6185	47	68.1	12.75	11.90	Left	5	0.247	0.095	1.216	1.161	0.349	0.134	0.247	12.145	0.259	0.162	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.03	6345	79	68.1	12.75	10.96	Left	5	0.303	0.112	1.510	1.161	0.531	0.196	0.332	11.45	0.394	0.246	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.05	6505	111	68.1	13.50	12.14	Left	5	0.334	0.122	1.368	1.161	0.530	0.194	0.331	12.20	0.393	0.246	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.03	6665	143	68.1	12.75	11.65	Left	5	0.588	0.130	1.288	1.161	0.535	0.194	0.584	11.45	0.397	0.248	A13
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.07	6825	175	68.1	13.80	12.51	Left	5	0.932	0.085	1.346	1.161	0.943	0.131	0.927	12.50	0.269	0.168	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.03	6985	207	68.1	14.10	13.99	Left	5	0.283	0.105	1.026	1.161	0.337	0.125	0.231	12.80	0.250	0.156	
ANS/IEEE C63.19-2: SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
1.6 W/kg (mW/cm²) 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	Simultaneous Tune-up Power	Simultaneous Reported APD [W/m² (4cm²)]	Simultaneous Reported Exposure Ratio (APD)	Plot #		
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.01	6025	15	68.1	14.25	12.89	Back	5	0.274	1.368	1.161	0.435	0.022	12.95	0.320	0.016			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.01	6025	15	68.1	14.25	12.89	Top	5	0.000	1.368	1.161	0.000	0.000	12.95	0.000	0.000			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.04	6025	15	68.1	14.25	12.89	Bottom	5	0.004	1.368	1.161	0.006	0.000	12.95	0.000	0.000			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.09	6025	15	68.1	14.25	12.89	Right	5	0.213	1.368	1.161	0.336	0.017	12.95	0.250	0.013			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.01	6025	15	68.1	14.25	12.89	Left	5	1.930	1.368	1.161	3.065	0.153	12.95	2.270	0.114			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.03	6185	47	68.1	12.75	11.90	Left	5	2.130	1.216	1.161	3.007	0.150	11.45	2.230	0.112			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.01	6345	79	68.1	12.75	10.96	Left	5	2.520	1.510	1.161	4.418	0.221	11.45	2.280	0.164			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.05	6505	111	68.1	13.50	12.14	Left	5	2.720	1.368	1.161	4.320	0.216	12.20	2.200	0.160			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.03	6665	143	68.1	12.75	11.65	Left	5	2.910	1.288	1.161	4.352	0.218	11.45	2.320	0.162	A13		
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	-0.07	6825	175	68.1	13.80	12.51	Left	5	1.900	1.346	1.161	2.969	0.148	12.50	2.200	0.110			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5T	WF93G	86.10	0.03	6985	207	68.1	14.10	13.99	Left	5	2.330	1.026	1.161	2.775	0.139	12.80	2.060	0.103			

Table 10-118 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	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	WF5B	DS2JN	86.10	-0.10	6825	175	68.1	15.10	14.40	Back	5	0.002	0.012	1.175	1.161	0.044	0.016	0.028	14.60	0.039	0.024	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.04	6825	175	68.1	15.10	14.40	Top	5	0.000	0.000	1.175	1.161	0.000	0.000	0.000	14.60	0.000	0.000	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.06	6825	175	68.1	15.10	14.40	Bottom	5	0.000	0.008	1.175	1.161	0.027	0.011	0.017	14.60	0.024	0.015	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.07	6825	175	68.1	15.10	14.40	Right	5	0.015	0.004	1.175	1.161	0.020	0.005	0.013	14.60	0.018	0.011	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.01	6025	15	68.1	14.75	13.11	Left	5	0.333	0.095	1.469	1.161	0.395	0.161	0.347	14.25	0.352	0.220	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.06	6185	47	68.1	13.75	12.63	Left	5	0.228	0.088	1.294	1.161	0.343	0.132	0.214	13.25	0.306	0.191	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.07	6345	79	68.1	13.75	11.98	Left	5	0.218	0.081	1.503	1.161	0.380	0.141	0.238	13.25	0.339	0.212	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.00	6505	111	68.1	14.00	12.16	Left	5	0.210	0.092	1.368	1.161	0.447	0.158	0.210	13.50	0.328	0.249	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.02	6665	143	68.1	14.00	12.95	Left	5	0.230	0.084	1.274	1.161	0.340	0.124	0.213	13.50	0.303	0.189	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.05	6825	175	68.1	15.10	14.40	Left	5	0.204	0.071	1.175	1.161	0.278	0.097	0.174	14.60	0.248	0.155	
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.21	6985	207	68.1	14.25	12.47	Left	5	0.237	0.085	1.507	1.161	0.435	0.149	0.259	13.75	0.370	0.231	
ANS/IEEE C63.19-2: SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body																									
1.4 W (4cm²) 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	Simultaneous Tune-up Power	Simultaneous Reported APD [W/m² (4cm²)]	Simultaneous Reported Exposure Ratio (APD)	Plot #		
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.10	6825	175	68.1	15.10	14.40	Back	5	0.267	1.175	1.161	0.364	0.018	14.60	0.320	0.016			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.04	6825	175	68.1	15.10	14.40	Top	5	0.000	1.175	1.161	0.000	0.000	14.60	0.000	0.000			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.06	6825	175	68.1	15.10	14.40	Bottom	5	0.000	1.175	1.161	0.246	0.002	14.60	0.220	0.011			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.07	6825	175	68.1	15.10	14.40	Right	5	0.099	1.175	1.161	0.135	0.007	14.60	0.120	0.006			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.01	6025	15	68.1	14.75	13.11	Left	5	2.100	1.459	1.161	3.557	0.178	14.25	3.170	0.159			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.06	6185	47	68.1	13.75	12.63	Left	5	1.940	1.294	1.161	2.945	0.147	13.25	2.620	0.131			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.00	6345	79	68.1	13.75	11.98	Left	5	1.810	1.503	1.161	3.158	0.158	13.25	2.810	0.141			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.09	6505	111	68.1	14.00	12.16	Left	5	2.040	1.528	1.161	3.619	0.181	13.50	3.230	0.162			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.02	6665	143	68.1	14.00	12.95	Left	5	1.890	1.274	1.161	2.796	0.140	13.50	2.490	0.125			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	0.05	6825	175	68.1	15.10	14.40	Left	5	1.600	1.175	1.161	2.183	0.109	14.60	1.950	0.098			
Body	6 GHz WIFI / IEEE 802.11ax	160	OFDM	WF5B	DS2JN	86.10	-0.21	6985	207	68.1	14.25	12.47	Left	5	1.900	1.507	1.161	3.324	0.166	13.75	2.960	0.148			

10.34 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-120 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	SVFDY	98.84	0.01	2402	0	1	20.00	19.26	Back	5	0.881	0.434	1.186	1.012	1.057	0.521	0.661	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.00	2441	39	1	20.00	19.67	Back	5	0.972	0.476	1.079	1.012	1.061	0.520	0.663	A34
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	-0.05	2480	78	1	20.00	19.48	Back	5	0.913	0.436	1.127	1.012	1.041	0.497	0.651	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.03	2441	39	1	20.00	19.67	Top	5	0.363	0.157	1.079	1.012	0.418	0.171	0.261	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.03	2441	39	1	20.00	19.67	Bottom	5	0.019	0.011	1.079	1.012	0.021	0.012	0.013	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	-0.01	2402	0	1	20.00	19.26	Right	5	0.699	0.323	1.186	1.012	0.839	0.388	0.524	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	-0.02	2441	39	1	20.00	19.67	Right	5	0.829	0.375	1.079	1.012	0.905	0.409	0.566	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.00	2480	78	1	20.00	19.48	Right	5	0.769	0.349	1.127	1.012	0.877	0.398	0.548	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.02	2441	39	1	20.00	19.67	Left	5	0.010	0.005	1.079	1.012	0.011	0.005	0.007	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

Table 10-121 Antenna 3a Reduced Budget

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	SVFDY	98.84	-0.01	2441	39	1	17.00	16.26	Back	5	0.463	0.229	1.186	1.032	0.556	0.275	0.348	15.50	0.394	0.246	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.00	2441	39	1	17.00	16.26	Top	5	0.200	0.081	1.186	1.032	0.240	0.097	0.150	15.50	0.170	0.106	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.06	2441	39	1	17.00	16.26	Bottom	5	0.009	0.005	1.186	1.032	0.011	0.006	0.007	15.50	0.008	0.005	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.01	2441	39	1	17.00	16.26	Right	5	0.390	0.179	1.186	1.032	0.468	0.215	0.289	15.50	0.311	0.207	
Body	2.4 GHz Bluetooth	FHSS	3a	SVFDY	98.84	0.03	2441	39	1	17.00	16.26	Left	5	0.004	0.002	1.186	1.032	0.005	0.002	0.003	15.50	0.004	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

Table 10-122 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	4K2N7	98.84	0.03	2402	0	1	20.00	19.37	Back	5	0.944	0.474	1.156	1.012	1.104	0.554	0.690	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.04	2441	39	1	20.00	19.30	Back	5	0.958	0.487	1.175	1.012	1.139	0.579	0.712	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	-0.02	2480	78	1	20.00	19.32	Back	5	0.855	0.419	1.169	1.012	1.011	0.496	0.632	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	-0.08	2402	0	1	20.00	19.37	Top	5	0.040	0.020	1.156	1.012	0.047	0.023	0.029	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.00	2402	0	1	20.00	19.37	Bottom	5	0.489	0.205	1.156	1.012	0.572	0.240	0.358	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	-0.21	2402	0	1	20.00	19.37	Right	5	0.006	0.003	1.156	1.012	0.007	0.004	0.004	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	-0.01	2402	0	1	20.00	19.37	Left	5	0.842	0.379	1.156	1.012	0.985	0.443	0.616	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.00	2441	39	1	20.00	19.30	Left	5	0.871	0.411	1.175	1.012	1.035	0.489	0.647	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.00	2480	78	1	20.00	19.32	Left	5	0.748	0.336	1.169	1.012	0.885	0.397	0.553	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

Table 10-123 Antenna 1a Reduced Budget

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	4K2N7	98.84	-0.01	2402	0	1	17.25	16.45	Back	5	0.468	0.245	1.202	1.032	0.569	0.298	0.356	15.65	0.394	0.246	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	-0.13	2402	0	1	17.25	16.45	Top	5	0.035	0.009	1.202	1.032	0.023	0.011	0.014	15.65	0.016	0.010	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.03	2402	0	1	17.25	16.45	Bottom	5	0.248	0.104	1.202	1.032	0.302	0.126	0.189	15.65	0.209	0.131	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.05	2402	0	1	17.25	16.45	Right	5	0.004	0.002	1.202	1.032	0.005	0.002	0.003	15.65	0.003	0.002	
Body	2.4 GHz Bluetooth	FHSS	1a	4K2N7	98.84	0.00	2402	0	1	17.25	16.45	Left	5	0.431	0.208	1.202	1.032	0.524	0.253	0.328	15.65	0.363	0.227	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

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10.35 802.15.4 Standalone SAR

Table 10-124 Antenna 3a

Exposure	Band / Mode	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	802.15.4	3a	9VFDY	99.44	-0.05	2405	11	1	20.00	19.21	Back	5	0.859	0.427	1.199	1.006	1.036	0.515	0.648	
Body	802.15.4	3a	9VFDY	99.44	-0.03	2440	18	1	20.00	19.39	Back	5	0.899	0.441	1.151	1.006	1.041	0.510	0.651	
Body	802.15.4	3a	9VFDY	99.44	0.00	2475	25	1	20.00	19.14	Back	5	0.950	0.463	1.219	1.006	1.165	0.565	0.728	
Body	802.15.4	3a	9VFDY	99.44	0.03	2440	18	1	20.00	19.39	Top	5	0.424	0.172	1.151	1.006	0.491	0.199	0.307	
Body	802.15.4	3a	9VFDY	99.44	0.02	2440	18	1	20.00	19.39	Bottom	5	0.019	0.010	1.151	1.006	0.022	0.012	0.014	
Body	802.15.4	3a	9VFDY	99.44	-0.03	2405	11	1	20.00	19.21	Right	5	0.727	0.130	1.199	1.006	0.877	0.398	0.548	
Body	802.15.4	3a	9VFDY	99.44	-0.02	2440	18	1	20.00	19.39	Right	5	0.762	0.147	1.151	1.006	0.882	0.402	0.551	
Body	802.15.4	3a	9VFDY	99.44	-0.04	2475	25	1	20.00	19.14	Right	5	0.771	0.350	1.219	1.006	0.945	0.429	0.591	
Body	802.15.4	3a	9VFDY	99.44	0.18	2440	18	1	20.00	19.39	Left	5	0.008	0.004	1.151	1.006	0.009	0.005	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							

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

Table 10-125 Antenna 3a Reduced Budget

Exposure	Band / Mode	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 SAR [W/kg]	Simultaneous Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	3a	9VFDY	99.44	0.01	2440	18	1	17.25	16.37	Back	5	0.470	0.231	1.225	1.006	0.579	0.285	0.362	15.55	0.391	0.244	
Body	802.15.4	3a	9VFDY	99.44	-0.05	2440	18	1	17.25	16.37	Top	5	0.218	0.088	1.225	1.006	0.269	0.108	0.168	15.55	0.182	0.114	
Body	802.15.4	3a	9VFDY	99.44	0.02	2440	18	1	17.25	16.37	Bottom	5	0.009	0.004	1.225	1.006	0.011	0.005	0.007	15.55	0.007	0.004	
Body	802.15.4	3a	9VFDY	99.44	-0.03	2440	18	1	17.25	16.37	Right	5	0.390	0.181	1.225	1.006	0.480	0.223	0.300	15.55	0.355	0.203	
Body	802.15.4	3a	9VFDY	99.44	0.07	2440	18	1	17.25	16.37	Left	5	0.003	0.001	1.225	1.006	0.004	0.001	0.003	15.55	0.003	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body										
Spatial Peak													1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population													averaged over 1 gram										

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

Table 10-126 Antenna 1a

Exposure	Band / Mode	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	802.15.4	1a	4K2N7	99.44	-0.02	2405	11	1	20.00	19.61	Back	5	0.833	0.430	1.094	1.006	0.916	0.473	0.573	A35
Body	802.15.4	1a	4K2N7	99.44	-0.01	2440	18	1	20.00	19.49	Back	5	1.020	0.519	1.125	1.006	1.154	0.587	0.721	
Body	802.15.4	1a	4K2N7	99.44	0.00	2475	25	1	20.00	19.46	Back	5	1.010	0.494	1.132	1.006	1.150	0.562	0.719	
Body	802.15.4	1a	4K2N7	99.44	0.01	2405	11	1	20.00	19.61	Top	5	0.038	0.019	1.094	1.006	0.042	0.021	0.026	
Body	802.15.4	1a	4K2N7	99.44	-0.01	2405	11	1	20.00	19.61	Bottom	5	0.479	0.202	1.094	1.006	0.527	0.222	0.329	
Body	802.15.4	1a	4K2N7	99.44	0.03	2405	11	1	20.00	19.61	Right	5	0.008	0.004	1.094	1.006	0.009	0.004	0.006	
Body	802.15.4	1a	4K2N7	99.44	-0.05	2405	11	1	20.00	19.61	Left	5	0.849	0.388	1.094	1.006	0.934	0.427	0.584	
Body	802.15.4	1a	4K2N7	99.44	-0.01	2440	18	1	20.00	19.49	Left	5	0.902	0.430	1.125	1.006	1.020	0.486	0.638	
Body	802.15.4	1a	4K2N7	99.44	-0.01	2475	25	1	20.00	19.46	Left	5	0.827	0.383	1.132	1.006	0.941	0.436	0.588	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body							
Spatial Peak													1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population													averaged over 1 gram							

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

Table 10-127 Antenna 1a Reduced Budget

Exposure	Band / Mode	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 Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	1a	4K2N7	99.44	-0.04	2405	11	1	17.25	16.60	Back	5	0.490	0.252	1.161	1.006	0.572	0.294	0.318	15.65	0.396	0.248	
Body	802.15.4	1a	4K2N7	99.44	-0.05	2405	11	1	17.25	16.60	Top	5	0.039	0.009	1.161	1.006	0.022	0.011	0.014	15.65	0.015	0.009	
Body	802.15.4	1a	4K2N7	99.44	-0.05	2405	11	1	17.25	16.60	Bottom	5	0.246	0.103	1.161	1.006	0.287	0.120	0.179	15.65	0.199	0.124	
Body	802.15.4	1a	4K2N7	99.44	0.07	2405	11	1	17.25	16.60	Right	5	0.003	0.000	1.161	1.006	0.004	0.000	0.003	15.65	0.003	0.002	
Body	802.15.4	1a	4K2N7	99.44	-0.02	2405	11	1	17.25	16.60	Left	5	0.395	0.192	1.161	1.006	0.461	0.224	0.288	15.65	0.319	0.199	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body										
Spatial Peak													1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population													averaged over 1 gram										

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

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10.36 NB U-NII 1 Standalone SAR

Table 10-128 Antenna WF5T

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	WF5T	9W3JR	95.53	-0.19	5245	High	4	13.75	13.00	Back	5	0.018	0.002	1.189	0.022	0.002	0.014	
Body	NB U-NII 1	HDR	WF5T	9W3JR	95.53	0.01	5245	High	4	13.75	13.00	Top	5	0.000	0.000	1.189	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF5T	9W3JR	95.53	0.07	5245	High	4	13.75	13.00	Bottom	5	0.000	0.000	1.189	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF5T	9W3JR	95.53	0.04	5245	High	4	13.75	13.00	Right	5	0.008	0.000	1.189	0.010	0.000	0.006	
Body	NB U-NII 1	HDR	WF5T	9W3JR	95.53	0.07	5245	High	4	13.75	13.00	Left	5	0.187	0.074	1.189	0.233	0.092	0.146	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

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

Table 10-129 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	WF5B	9W3JR	93.38	0.03	5245	High	8	13.00	11.30	Back	5	0.014	0.005	1.479	0.022	0.008	0.014	
Body	NB U-NII 1	HDR	WF5B	9W3JR	93.38	0.07	5245	High	8	13.00	11.30	Top	5	0.000	0.000	1.479	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF5B	9W3JR	93.38	0.05	5245	High	8	13.00	11.30	Bottom	5	0.000	0.000	1.479	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF5B	9W3JR	93.38	0.01	5245	High	8	13.00	11.30	Right	5	0.007	0.000	1.479	0.011	0.000	0.007	
Body	NB U-NII 1	HDR	WF5B	9W3JR	93.38	0.10	5245	High	8	13.00	11.30	Left	5	0.115	0.046	1.479	0.182	0.073	0.114	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

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

Table 10-130 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	HDR	1b	Y14KJ	91.11	0.07	5162	Low	4	12.00	10.77	Back	5	0.121	0.034	1.327	0.176	0.050	0.110	
Body	NB U-NII 1	HDR	1b	Y14KJ	91.11	0.05	5162	Low	4	12.00	10.77	Top	5	0.000	0.000	1.327	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	1b	Y14KJ	91.11	0.11	5162	Low	4	12.00	10.77	Bottom	5	0.140	0.035	1.327	0.204	0.051	0.128	
Body	NB U-NII 1	HDR	1b	Y14KJ	91.11	0.07	5162	Low	4	12.00	10.77	Right	5	0.000	0.000	1.327	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	1b	Y14KJ	91.11	0.01	5162	Low	4	12.00	10.77	Left	5	0.008	0.000	1.327	0.012	0.000	0.008	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

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

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10.37 NB U-NII 3 Standalone SAR

Table 10-131 Antenna WF5T

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	WF5T	VV16P	98.80	0.06	5733	Low	1	18.75	17.49	Back	5	0.101	0.040	1.337	0.137	0.054	0.086	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.03	5733	Low	1	18.75	17.49	Top	5	0.006	0.000	1.337	0.008	0.000	0.005	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.06	5733	Low	1	18.75	17.49	Bottom	5	0.000	0.000	1.337	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.01	5733	Low	1	18.75	17.49	Right	5	0.035	0.007	1.337	0.047	0.009	0.029	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	-0.16	5733	Low	1	18.75	17.49	Left	5	0.744	0.299	1.337	1.007	0.405	0.629	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	-0.15	5789	Mid	1	18.75	17.44	Left	5	0.758	0.307	1.352	1.037	0.420	0.648	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.01	5844	High	1	18.75	17.38	Left	5	0.859	0.346	1.349	1.173	0.472	0.733	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	-0.18	5844	High	1	18.75	17.45	Left	5	0.868	0.347	1.349	1.185	0.474	0.741	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body						
Spatial Peak														1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population														averaged over 1 gram						

Note: Blue entry represents variability measurement

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

Table 10-132 Antenna WF5T Reduced Budget

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	WF5T	VV16P	98.80	0.08	5844	High	1	15.25	13.56	Back	5	0.059	0.022	1.476	0.088	0.033	0.055	14.15	0.068	0.043	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.02	5844	High	1	15.25	13.56	Top	5	0.000	0.000	1.476	0.000	0.000	0.000	14.15	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.03	5844	High	1	15.25	13.56	Bottom	5	0.000	0.000	1.476	0.000	0.000	0.000	14.15	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.06	5844	High	1	15.25	13.56	Right	5	0.007	0.000	1.476	0.010	0.000	0.006	14.15	0.008	0.005	
Body	NB U-NII 3	FHSS	WF5T	VV16P	98.80	0.08	5844	High	1	15.25	13.56	Left	5	0.344	0.138	1.476	0.514	0.206	0.321	14.15	0.399	0.249	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

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

Table 10-133 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.08	5844	High	1	18.00	17.44	Back	5	0.071	0.028	1.138	0.082	0.032	0.051	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.04	5844	High	1	18.00	17.44	Top	5	0.000	0.000	1.138	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.01	5844	High	1	18.00	17.44	Bottom	5	0.015	0.002	1.138	0.017	0.002	0.011	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.09	5844	High	1	18.00	17.44	Right	5	0.026	0.008	1.138	0.030	0.009	0.019	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	-0.07	5733	Low	1	18.00	17.40	Left	5	0.649	0.268	1.148	0.754	0.311	0.471	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	-0.07	5789	Mid	1	18.00	17.43	Left	5	0.656	0.270	1.140	0.757	0.312	0.473	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	-0.02	5844	High	1	18.00	17.44	Left	5	0.761	0.310	1.138	0.877	0.357	0.548	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body						
Spatial Peak														1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population														averaged over 1 gram						

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

Table 10-134 Antenna WF5B Reduced Budget

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	WF5B	Y14KI	98.80	0.06	5844	High	1	17.00	16.16	Back	5	0.058	0.024	1.213	0.071	0.029	0.044	15.40	0.049	0.031	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.06	5844	High	1	17.00	16.16	Top	5	0.000	0.000	1.213	0.000	0.000	0.000	15.40	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.05	5844	High	1	17.00	16.16	Bottom	5	0.008	0.000	1.213	0.010	0.000	0.006	15.40	0.007	0.004	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.05	5844	High	1	17.00	16.16	Right	5	0.010	0.001	1.213	0.012	0.001	0.008	15.40	0.008	0.005	
Body	NB U-NII 3	FHSS	WF5B	Y14KI	98.80	0.09	5844	High	1	17.00	16.16	Left	5	0.467	0.188	1.213	0.573	0.231	0.358	15.40	0.386	0.248	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

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Table 10-135 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	Y14KJ	98.80	-0.02	5793	Low	1	17.00	16.13	Back	5	0.894	0.315	1.222	1.106	0.390	0.691	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	-0.03	5789	Mid	1	17.00	16.20	Back	5	0.981	0.345	1.202	1.193	0.420	0.746	A36
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	-0.07	5789	Mid	1	17.00	16.29	Back	5	0.968	0.343	1.202	1.178	0.417	0.736	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.05	5844	High	1	17.00	16.23	Back	5	0.962	0.338	1.194	1.163	0.408	0.727	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.08	5844	High	1	17.00	16.23	Top	5	0.000	0.000	1.194	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.02	5844	High	1	17.00	16.23	Bottom	5	0.615	0.186	1.194	0.743	0.225	0.464	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.02	5844	High	1	17.00	16.23	Right	5	0.044	0.010	1.194	0.053	0.012	0.033	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.07	5844	High	1	17.00	16.23	Left	5	0.045	0.013	1.194	0.054	0.016	0.034	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body						
Spatial Peak														1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population														averaged over 1 gram						

Note: Blue entry represents variability measurement

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

Table 10-136 Antenna 1b Reduced Budget

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 Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.13	5789	Mid	1	14.25	13.17	Back	5	0.457	0.159	1.282	0.593	0.206	0.371	12.45	0.392	0.245	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.06	5789	Mid	1	14.25	13.17	Top	5	0.000	0.000	1.282	0.000	0.000	0.000	12.45	0.000	0.000	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	-0.10	5789	Mid	1	14.25	13.17	Bottom	5	0.277	0.083	1.282	0.359	0.108	0.224	12.45	0.237	0.148	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.05	5789	Mid	1	14.25	13.17	Right	5	0.010	0.001	1.282	0.013	0.001	0.008	12.45	0.009	0.006	
Body	NB U-NII 3	FHSS	1b	Y14KJ	98.80	0.09	5789	Mid	1	14.25	13.17	Left	5	0.013	0.001	1.282	0.017	0.001	0.011	12.45	0.011	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									

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

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10.38 NB U-NII 5 Standalone SAR

Table 10-137 Antenna WF5T

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	OQPSK	WF5T	W9J3G	80.02	0.09	6340	Mid-High	8	-2.50	-4.04	Back	5	0.001	0.000	1.426	0.002	0.000	0.001	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.09	6340	Mid-High	8	-2.50	-4.04	Top	5	0.000	0.000	1.426	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.07	6340	Mid-High	8	-2.50	-4.04	Bottom	5	0.000	0.000	1.426	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.09	6340	Mid-High	8	-2.50	-4.04	Right	5	0.000	0.000	1.426	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.02	6109	Low	8	-2.50	-4.48	Left	5	0.005	0.002	1.578	0.010	0.004	0.006	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.01	6186	Low-Mid	8	-2.50	-4.11	Left	5	0.003	0.001	1.449	0.005	0.002	0.003	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.07	6263	Mid	8	-2.50	-4.31	Left	5	0.004	0.002	1.517	0.008	0.004	0.005	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.01	6340	Mid-High	8	-2.50	-4.04	Left	5	0.005	0.002	1.426	0.009	0.004	0.006	
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.03	6417	High	8	-2.50	-4.41	Left	5	0.003	0.001	1.552	0.006	0.002	0.004	
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	OQPSK	WF5T	W9J3G	80.02	0.09	6340	Mid-High	8.0	-2.50	-4.04	Back	5	0.012	1.426	0.021	0.001			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.09	6340	Mid-High	8.0	-2.50	-4.04	Top	5	0.002	1.426	0.004	0.000			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.07	6340	Mid-High	8.0	-2.50	-4.04	Bottom	5	0.004	1.426	0.007	0.000			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.09	6340	Mid-High	8.0	-2.50	-4.04	Right	5	0.000	1.426	0.000	0.000			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.02	6109	Low	8.0	-2.50	-4.48	Left	5	0.043	1.578	0.085	0.004			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.01	6186	Low-Mid	8.0	-2.50	-4.11	Left	5	0.025	1.449	0.045	0.002			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.07	6263	Mid	8.0	-2.50	-4.31	Left	5	0.035	1.517	0.066	0.003			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.01	6340	Mid-High	8.0	-2.50	-4.04	Left	5	0.040	1.426	0.071	0.004			
Body	NB U-NII 5	OQPSK	WF5T	W9J3G	80.02	0.03	6417	High	8.0	-2.50	-4.41	Left	5	0.028	1.552	0.054	0.003			

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

Table 10-138 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	-0.19	6417	High	8	-2.25	-3.76	Back	5	0.002	0.000	1.416	0.004	0.000	0.003	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.06	6417	High	8	-2.25	-3.76	Top	5	0.000	0.000	1.416	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.07	6417	High	8	-2.25	-3.76	Bottom	5	0.001	0.000	1.416	0.002	0.000	0.001	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.09	6417	High	8	-2.25	-3.76	Right	5	0.000	0.000	1.416	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.05	6109	Low	8	-2.25	-4.11	Left	5	0.007	0.002	1.535	0.013	0.004	0.008	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.01	6186	Low-Mid	8	-2.25	-3.81	Left	5	0.012	0.004	1.432	0.021	0.007	0.013	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.08	6263	Mid	8	-2.25	-3.99	Left	5	0.010	0.003	1.493	0.019	0.006	0.012	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.07	6340	Mid-High	8	-2.25	-3.77	Left	5	0.010	0.004	1.419	0.018	0.007	0.011	
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.02	6417	High	8	-2.25	-3.76	Left	5	0.010	0.004	1.416	0.018	0.007	0.011	
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	OQPSK	WF5B	CF4P6	80.02	-0.19	6417	High	8.0	-2.25	-3.76	Back	5	0.015	1.416	0.027	0.001			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.06	6417	High	8.0	-2.25	-3.76	Top	5	0.000	1.416	0.000	0.000			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.07	6417	High	8.0	-2.25	-3.76	Bottom	5	0.011	1.416	0.019	0.001			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.09	6417	High	8.0	-2.25	-3.76	Right	5	0.014	1.416	0.025	0.001			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.05	6109	Low	8.0	-2.25	-4.11	Left	5	0.050	1.535	0.096	0.005			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.01	6186	Low-Mid	8.0	-2.25	-3.81	Left	5	0.096	1.432	0.172	0.009			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.08	6263	Mid	8.0	-2.25	-3.99	Left	5	0.076	1.493	0.142	0.007			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.07	6340	Mid-High	8.0	-2.25	-3.77	Left	5	0.083	1.419	0.147	0.007			
Body	NB U-NII 5	OQPSK	WF5B	CF4P6	80.02	0.02	6417	High	8.0	-2.25	-3.76	Left	5	0.087	1.416	0.154	0.008			

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

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Table 10-139 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	OQPSK	1b	CF4P6	80.02	0.08	6109	Low	8	-1.00	-2.54	Back	5	0.006	0.002	1.426	0.011	0.004	0.007	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.03	6186	Low-Mid	8	-1.00	-2.79	Back	5	0.007	0.002	1.510	0.013	0.004	0.008	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.01	6263	Mid	8	-1.00	-2.70	Back	5	0.008	0.003	1.479	0.015	0.006	0.009	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.08	6340	Mid-High	8	-1.00	-2.55	Back	5	0.010	0.004	1.429	0.018	0.007	0.011	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.04	6417	High	8	-1.00	-2.99	Back	5	0.010	0.003	1.581	0.020	0.006	0.013	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.01	6109	Low	8	-1.00	-2.54	Top	5	0.000	0.000	1.426	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.04	6109	Low	8	-1.00	-2.54	Bottom	5	0.003	0.000	1.426	0.005	0.000	0.003	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.07	6109	Low	8	-1.00	-2.54	Right	5	0.000	0.000	1.426	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.04	6109	Low	8	-1.00	-2.54	Left	5	0.000	0.000	1.426	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/m ² (4cm ²)]	Power Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.08	6109	Low	8.0	-1.00	-2.54	Back	5	0.051	1.426	0.091	0.005			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.03	6186	Low-Mid	8.0	-1.00	-2.79	Back	5	0.042	1.510	0.079	0.004			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.01	6263	Mid	8.0	-1.00	-2.70	Back	5	0.063	1.479	0.116	0.006			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.08	6340	Mid-High	8.0	-1.00	-2.55	Back	5	0.082	1.429	0.146	0.007			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.04	6417	High	8.0	-1.00	-2.99	Back	5	0.066	1.581	0.130	0.007			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.01	6109	Low	8.0	-1.00	-2.54	Top	5	0.000	1.426	0.000	0.000			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.04	6109	Low	8.0	-1.00	-2.54	Bottom	5	0.011	1.426	0.020	0.001			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.07	6109	Low	8.0	-1.00	-2.54	Right	5	0.008	1.426	0.014	0.001			
Body	NB U-NII 5	OQPSK	1b	CF4P6	80.02	0.04	6109	Low	8.0	-1.00	-2.54	Left	5	0.000	1.426	0.000	0.000			

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

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10.39 WPT Standalone SAR

Table 10-140 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	GXY1J	0.06	13.60	Back	5	0.000	0.000	0.000	A37
Body	WPT	GXY1J	0.07	13.60	Top	5	0.000	0.000	0.000	
Body	WPT	GXY1J	0.03	13.60	Bottom	5	0.000	0.000	0.000	
Body	WPT	GXY1J	0.05	13.60	Right	5	0.000	0.000	0.000	
Body	WPT	GXY1J	0.06	13.60	Left	5	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram					

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10.40 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, 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 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device uses a time-averaged SAR (TAS) technology to control the time-averaged transmit power for connectivity and cellular radios to ensure RF Exposure compliance. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
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 13 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 TAS Cellular Validation 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 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.
7. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factor for WIFI 6E. Per October 2020 TCB Workshop notes, 5 channels were tested for WIFI 6E.

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 100% transmission duty factor to determine compliance as the most conservative transmission duty factor. See Section 8.12 and 8.19 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes:

1. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% to determine compliance as the most conservative transmission duty factor. See Section 8.15 for the time domain plot for the duty factor of the device.

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11 POWER DENSITY DATA SUMMARY

11.1 Power Density Data

Table 11-1 6 GHz WIFI 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 (λ)	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)	Pilot #
6665	143	802.11ax	OFDM	160	12.75	11.65	0.01	5	WF5T	W9J3G	68.1	Left	86.10	0.041	1.390	1.610	1.288	1.161	2.530	6.091	2.930	7.05	A38
6505	111	802.11ax	OFDM	160	14.00	12.16	0.11	5	WF5B	D5QJN	68.1	Left	86.10	0.041	1.200	1.610	1.528	1.161	2.300	6.569	2.480	7.08	
6665	143	802.11ax	OFDM	160	15.25	13.84	0.03	5	1b	D5QJN	68.1	Back	86.10	0.041	1.280	1.610	1.384	1.161	2.370	6.131	2.720	7.04	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²													

Table 11-2 NB U-NII 5

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)	Pilot #
6109	Low	HDRPL8	OQPSK	-2.50	-4.48	0.17	5	WF5T	W9J3G	8.0	Left	80.02	0.041	0.250	1.610	1.578	1.250	0.178	0.565	0.179	0.57	
6186	Low-Mid	HDRPL8	OQPSK	-2.25	-3.81	0.00	5	WF5B	C4FP6	8.0	Left	80.02	0.041	0.383	1.610	1.432	1.250	0.277	0.798	0.278	0.80	
6417	High	HDRPL8	OQPSK	-1.00	-2.99	-0.10	5	1b	C4FP6	8.0	Back	80.02	0.041	0.534	1.610	1.581	1.250	0.297	0.945	0.302	0.96	A39
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population									Power Density 10 W/m² averaged over 4 cm²													

11.2 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 2.80 dB (90.5%) 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.
9. Based on FCC KDB 388624 D02, the incident Power Density (IPD) evaluations were performed on the test configuration that exhibited the highest SAR during the SAR evaluations, for frequencies between 6000 MHz and 8500 MHz.

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12 RF EXPOSURE MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)
750	793.00	158600	NR Band n14, 10 MHz Bandwidth	QPSK, 1 RB, 26 RB Offset	Ant 3b	N/A	Back	5mm	1.110	1.100	1.01	N/A	N/A	N/A
835	836.50	167300	NR Band n5, 20 MHz Bandwidth	QPSK, 50 RB, 28 RB Offset	Ant 4	N/A	Top	5mm	1.040	1.040	1.00	N/A	N/A	N/A
1750	1745.00	132322	LTE Band 66, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Ant 3a	N/A	Back	5mm	1.090	1.030	1.06	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	QPSK, 1 RB, 108 RB Offset	Ant 3a	N/A	Back	5mm	1.120	1.110	1.01	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	QPSK, 1 RB, 26 RB Offset	Ant 3a	N/A	Back	5mm	1.090	1.050	1.04	N/A	N/A	N/A
2450	2535.00	211000	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant 3a	N/A	Back	5mm	1.040	1.000	1.04	N/A	N/A	N/A
2600	2680.00	41490	LTE Band 41, 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	Ant 1b	N/A	Bottom	5mm	1.010	0.993	1.02	N/A	N/A	N/A
3500	3590.01	639334	NR Band n77 DoD, 100 MHz Bandwidth	QPSK, 135 RB, 0 RB Offset	Ant 2	N/A	Back	5mm	1.050	1.010	1.04	N/A	N/A	N/A
3700	3624.99	641666	NR Band n48, 40 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 1a	N/A	Left	5mm	1.010	0.911	1.11	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	QPSK, 135 RB, 0 RB Offset	Ant 4	N/A	Left	5mm	1.040	0.973	1.07	N/A	N/A	N/A
5250	5270.00	54	5 GHz WiFi IEEE 802.11n	OFDM	Ant WF5T	13.5	Left	5mm	0.810	0.758	1.07	N/A	N/A	N/A
5600	5690.00	138	5 GHz WiFi IEEE 802.11ac	OFDM	Ant 1b	29.3	Back	5mm	0.817	0.799	1.02	N/A	N/A	N/A
5750	5789.00	Mid	NB U-NII 3	FHSS	Ant 1b	1.0	Back	5mm	0.981	0.968	1.01	N/A	N/A	N/A
5850	5844.00	High	NB U-NII 3	FHSS	Ant WF5T	1.0	Left	5mm	0.868	0.859	1.01	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram					

12.2 Measurement Uncertainty

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

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13 ADDITIONAL TESTING PER FCC GUIDANCE

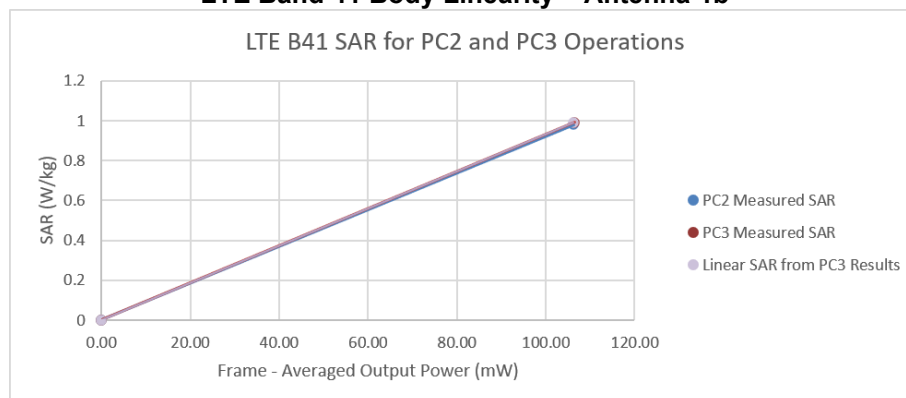
13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.00	24.60
Measured Output Power (dBm)	22.26	23.90
Measured SAR (W/kg)	0.991	0.981
Measured Power (mW)	168.27	245.47
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	106.51	106.29
% deviation from expected linearity		-0.80%

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



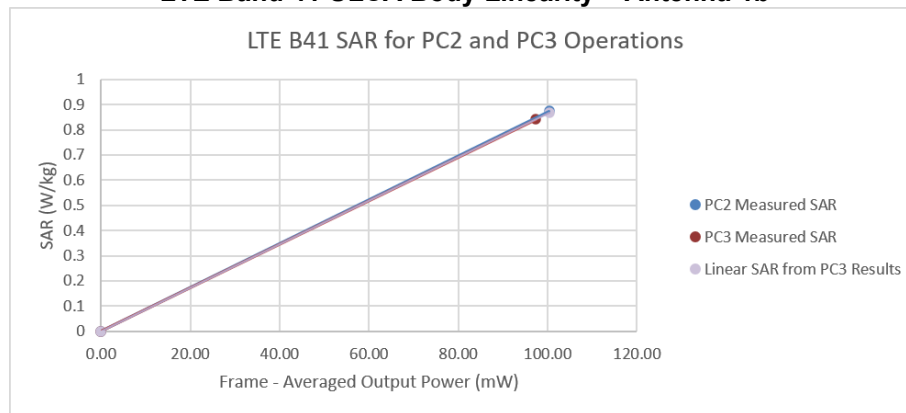
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Table 13-2
LTE Band 41 Standalone ULCA Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.00	24.70
Measured Output Power (dBm)	21.87	23.65
Measured SAR (W/kg)	0.841	0.873
Measured Power (mW)	153.82	231.74
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	97.37	100.34
% deviation from expected linearity		0.72%

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



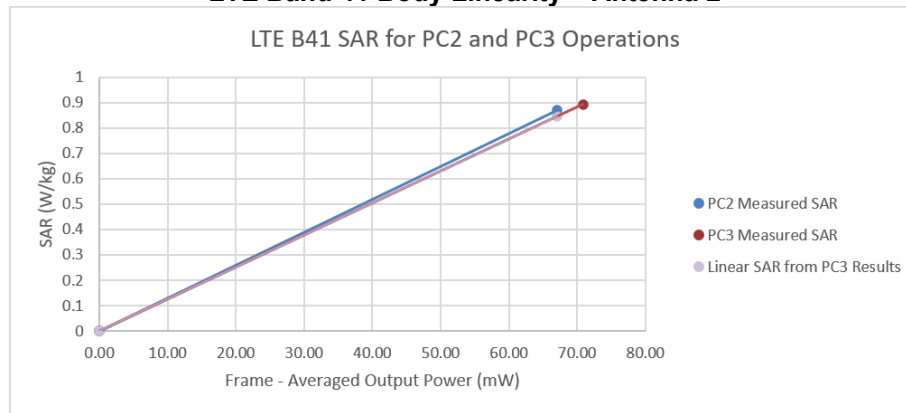
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Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.50	23.10
Measured Output Power (dBm)	20.49	21.90
Measured SAR (W/kg)	0.892	0.869
Measured Power (mW)	111.94	154.88
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	70.86	67.06
% deviation from expected linearity		2.94%

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



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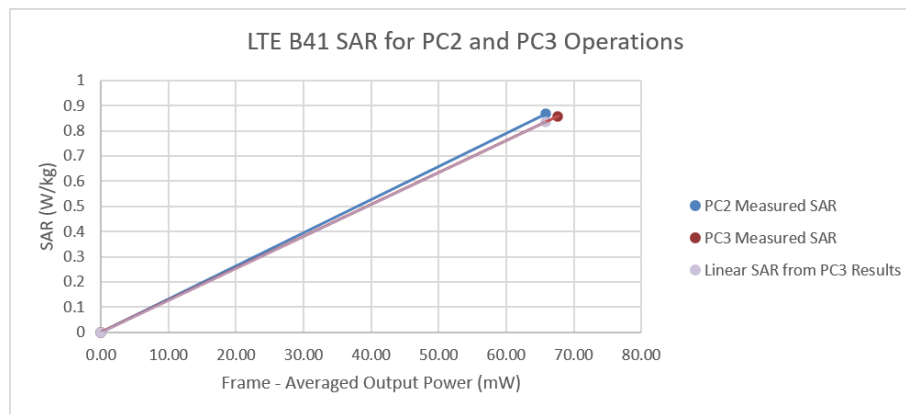
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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.50	23.10
Measured Output Power (dBm)	20.29	21.82
Measured SAR (W/kg)	0.858	0.867
Measured Power (mW)	106.91	152.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	67.67	65.84
% deviation from expected linearity		3.86%

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



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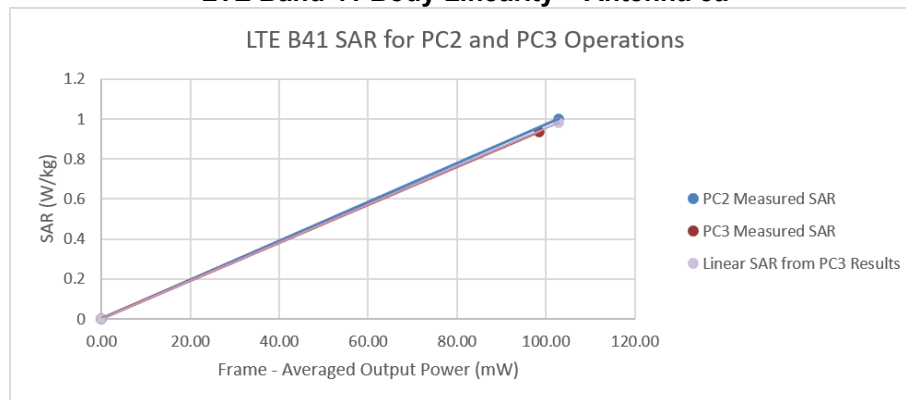
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Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.00	24.50
Measured Output Power (dBm)	21.92	23.76
Measured SAR (W/kg)	0.937	1.000
Measured Power (mW)	155.60	237.68
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	98.49	102.92
% deviation from expected linearity		2.14%

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



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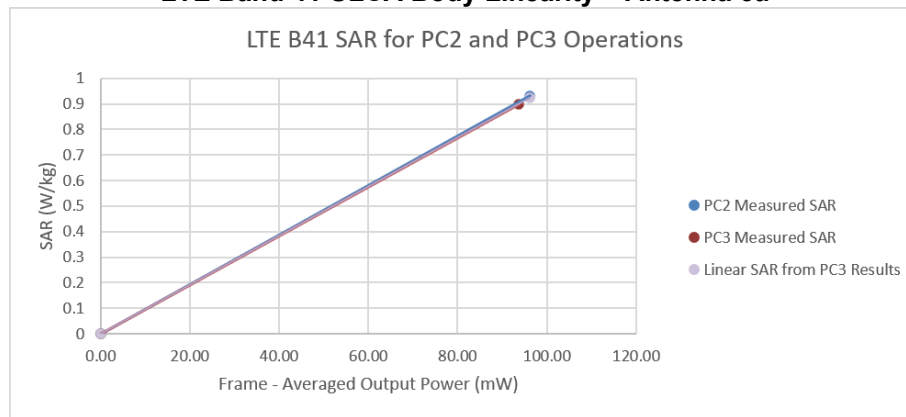
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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.00	24.50
Measured Output Power (dBm)	21.70	23.47
Measured SAR (W/kg)	0.897	0.932
Measured Power (mW)	147.91	222.33
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	93.63	96.27
% deviation from expected linearity		1.05%

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



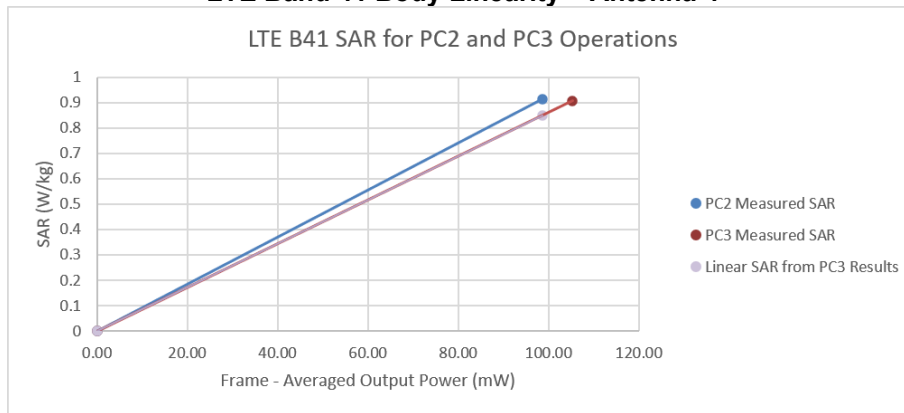
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Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.10	24.70
Measured Output Power (dBm)	22.21	23.58
Measured SAR (W/kg)	0.906	0.913
Measured Power (mW)	166.34	228.03
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	105.29	98.74
% deviation from expected linearity		7.46%

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



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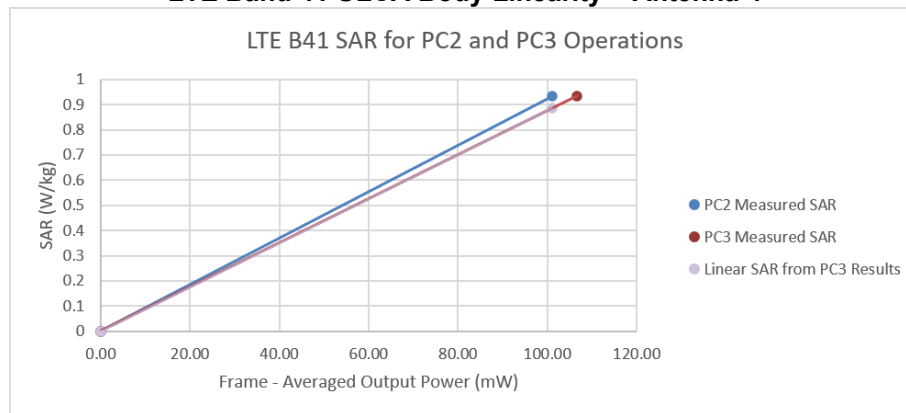
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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.10	24.70
Measured Output Power (dBm)	22.27	23.68
Measured SAR (W/kg)	0.934	0.933
Measured Power (mW)	168.66	233.35
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	106.76	101.04
% deviation from expected linearity		5.55%

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



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113342
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/23/2026	Annual	3/23/2027	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	4/13/2026	Annual	4/13/2027	MY48180366
Agilent	8753ES	5-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Agilent	8753ES	5-Parameter Vector Network Analyzer	10/27/2025	Annual	10/27/2026	US39170118
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB4610798
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
Amplifier Research	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	4/6/2026	Annual	4/6/2027	1351001
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1027293
Anritsu	1108-150	Probe - Digital Caliper	1/7/2026	Annual	1/7/2027	1410255640
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520501
Anritsu	MA24106A	USB Power Sensor	12/12/2025	Annual	12/12/2026	1344554
Mini-Circuits	PWR-4GHS	9-KHz-4000MHz USB Power Sensor	1/28/2026	Annual	1/28/2027	11710030062
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770121
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770096
Control Company	4040	Therm / Clock/ Humidity Monitor	12/29/2025	Biennial	12/29/2027	250778120
Control Company	4040	Therm / Clock/ Humidity Monitor	10/24/2025	Biennial	10/24/2026	250652331
Control Company	4040	Therm / Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Agilent	N9020A	MXA Signal Analyzer	2/2/2026	Annual	2/2/2027	MY51240479
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N90A+	60B Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/22/2025	Annual	7/22/2026	32028
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-B3-5+	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
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Pasternack	PE3011-3	Torque Wrench	6/1/2025	Biennial	6/1/2027	2029
Rohde & Schwarz	CWV500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CWV500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CWV500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CWV500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CWV500	Wideband Radio Communication Tester	CBT	N/A	CBT	168544
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1077
SPEAG	DAWS-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)	3/1/2026	Annual	3/1/2027	1102
GW Instek	GPS-3030D	DC Power Supply	N/A	N/A	N/A	1883874
SPEAG	5G Verification Source 10GHz	100GHz System Verification Antenna	10/7/2025	Annual	10/7/2026	1006
SPEAG	CLA-13	13 MHz SAR Dipole	11/7/2025	Annual	11/7/2026	1004
SPEAG	D750V3	750 MHz SAR Dipole	11/11/2025	Annual	11/11/2026	1094
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Triennial	9/13/2026	1097
SPEAG	D855V2	855 MHz SAR Dipole	10/25/2024	Biennial	10/25/2026	46040
SPEAG	D855V2	855 MHz SAR Dipole	11/11/2025	Annual	11/11/2026	46108
SPEAG	D1750V2	1750 MHz SAR Dipole	11/6/2025	Annual	11/6/2026	1040
SPEAG	D1800V2	1800 MHz SAR Dipole	10/15/2025	Annual	10/15/2026	54030
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2023	Triennial	9/7/2026	54181
SPEAG	D2300V2	2300 MHz SAR Dipole	11/14/2023	Triennial	11/14/2026	1064
SPEAG	D2300V2	2300 MHz SAR Dipole	3/11/2024	Triennial	3/11/2027	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Biennial	10/23/2026	921
SPEAG	D2450V2	2450 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	855
SPEAG	D2600V2	2600 MHz SAR Dipole	9/12/2023	Triennial	9/12/2026	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	8/5/2025	Annual	8/5/2026	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	6/10/2024	Triennial	6/10/2027	1097
SPEAG	D3900V2	3900 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1092
SPEAG	D5GHV2	5 GHz SAR Dipole	8/6/2025	Annual	8/6/2026	1123
SPEAG	D6.5GHV2	6.5 GHz SAR Dipole	10/14/2025	Annual	10/14/2026	1019
SPEAG	DAE4	Dary Data Acquisition Electronics	4/13/2026	Annual	4/13/2027	501
SPEAG	DAE4	Dary Data Acquisition Electronics	10/14/2025	Annual	10/14/2026	1408
SPEAG	DAE4	Dary Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1646
SPEAG	DAE4	Dary Data Acquisition Electronics	3/10/2026	Annual	3/10/2027	1323
SPEAG	DAE4	Dary Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1684
SPEAG	DAE4	Dary Data Acquisition Electronics	3/9/2026	Annual	3/9/2027	604
SPEAG	DAE4	Dary Data Acquisition Electronics	1/12/2026	Annual	1/12/2027	1465
SPEAG	DAE4	Dary Data Acquisition Electronics	2/6/2026	Annual	2/6/2027	467
SPEAG	DAE4	Dary Data Acquisition Electronics	4/13/2026	Annual	4/13/2027	1582
SPEAG	DAE4	Dary Data Acquisition Electronics	12/3/2025	Annual	12/3/2026	1644
SPEAG	DAE4	Dary Data Acquisition Electronics	10/14/2025	Annual	10/14/2026	1237
SPEAG	DAE4	Dary Data Acquisition Electronics	8/8/2025	Annual	8/8/2026	1681
SPEAG	DAE4	Dary Data Acquisition Electronics	2/6/2026	Annual	2/6/2027	1402
SPEAG	DAE4	Dary Data Acquisition Electronics	8/6/2025	Annual	8/6/2026	793
SPEAG	DAE4	Dary Data Acquisition Electronics	10/22/2025	Annual	10/22/2026	1403
SPEAG	EUmmWV3	EUmmWV3 Probe	6/10/2025	Annual	6/10/2026	9364
SPEAG	EUmmWV4	EUmmWV4 Probe	11/18/2025	Annual	11/18/2026	9487
SPEAG	EX3DV4	SAR Probe	3/10/2026	Annual	3/10/2027	7551
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7638
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7308
SPEAG	EX3DV4	SAR Probe	3/10/2026	Annual	3/10/2027	7421
SPEAG	EX3DV4	SAR Probe	8/11/2025	Annual	8/11/2026	7668
SPEAG	EX3DV4	SAR Probe	4/15/2026	Annual	4/15/2027	7532
SPEAG	EX3DV4	SAR Probe	10/10/2025	Annual	10/10/2026	3746
SPEAG	EX3DV4	SAR Probe	8/13/2025	Annual	8/13/2026	3837
SPEAG	EX3DV4	SAR Probe	10/9/2025	Annual	10/9/2026	7420
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7427
SPEAG	EX3DV4	SAR Probe	9/12/2025	Annual	9/12/2026	7639
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7499
SPEAG	EX3DV4	SAR Probe	12/23/2025	Annual	12/23/2026	7490
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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15 MEASUREMENT UNCERTAINTIES

SAR Uncertainty Budget based on IEC/IEEE 62209-1528:2020 (4 MHz to 10 GHz)

Symbol	Input quantity X (source of uncertainty)	Ref.	Prob. Dist. PDFi	Unc. a(xi)	Div. qi	$u(x_i) = a(x_i)/q_i$	ci (1g)	ci (10g)	$u(y) = cixu(x_i) 1g (\pm \%)$	$u(y) = cixu(x_i) 10g (\pm \%)$	vi
Measurement system errors											
CF	Probe calibration	8.4.1.1	N (k=2)	9.30	1	9.30	1	1	9.30	9.30	∞
CFdrift	Probe calibration drift	8.4.1.2	R	1.70	1.73	0.98	1	1	0.98	0.98	∞
LIN	Probe linearity and detection limit	8.4.1.3	R	4.70	1.73	2.71	1	1	2.71	2.71	∞
BBS	Broadband signal	8.4.1.4	R	2.80	1.73	1.62	1	1	1.62	1.62	∞
ISO	Probe isotropy	8.4.1.5	R	7.60	1.73	4.39	1	1	4.39	4.39	∞
DAE	Other probe and data acquisition errors	8.4.1.6	N	2.40	1	2.40	1	1	2.40	2.40	∞
AMB	RF ambient and noise	8.4.1.7	N	1.80	1	1.80	1	1	1.80	1.80	∞
Δxyz	Probe positioning errors	8.4.1.8	N	0.30	1	0.30	1	1	0.30	0.30	∞
DAT	Data processing errors	8.4.1.9	N	3.50	1.00	3.50	1	1	3.50	3.50	∞
Phantom and device (DUT or validation antenna) errors											
LIQ(σ)	Measurement of phantom conductivity	8.4.2.1	N	2.50	1	2.50	0.78	0.71	1.95	1.78	∞
LIQ(Tc)	Temperature effects (medium)	8.4.2.2	R	5.40	1.73	3.12	0.78	0.71	2.43	2.21	∞
EPS	Shell permittivity	8.4.2.3	R	14.00	1.73	8.08	0.5	0.5	4.04	4.04	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	8.4.2.4	N	2.00	1	2.00	2	2	4.00	4.00	∞
Dxyz	Repeatability of positioning the DUT or source against the phantom	8.4.2.5	N	3.12	1	3.12	1	1	3.12	3.12	35
H	Device holder effects	8.4.2.6	N	1.67	1	1.67	1	1	1.67	1.67	5
MOD	Effect of operating mode on probe sensitivity	8.4.2.7	R	2.40	1.73	1.39	1	1	1.39	1.39	∞
TAS	Time-average SAR	8.4.2.8	R	1.73	1.73	1.00	1	1	1.00	1.00	∞
RFdrift	Variation in SAR due to drift in output power of DUT	8.4.2.9	N	2.50	1	2.50	1	1	2.50	2.50	∞
VAL	Validation antenna uncertainty (validation measurement only)	8.4.2.10	N	0.00	1	0.00	1	1	0.00	0.00	∞
Pin	Uncertainty in accepted power (validation measurement only)	8.4.2.11	N	0.00	1	0.00	1	1	0.00	0.00	∞
Corrections to the SAR result (if applied)											
C(ε',σ)	Phantom deviation from target	8.4.3.1	R	5.00	1.73	2.89	0.64	0.43	1.85	1.24	∞
C(R)	SAR scaling	8.4.3.2	R	0.00	1.73	0.00	1	1	0.00	0.00	∞
u(ASAR)	Combined uncertainty								14.32	14.20	40
U	Expanded uncertainty and effective degrees of freedom								28.65	28.40	

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SAR Uncertainty Budget based on IEEE 1528-2013 and SPEAG (0.3 GHz to 6 GHz)

a	b	c	d	e f(d,k)	f	g	h exf/e	i exg/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	6.55	N	1	1	1	6.55	6.55	∞
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	2.50	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement	E.3.3	2.50	N	1	0.23	0.26	0.58	0.65	∞
Liquid conductivity - temperature uncertainty	E.3.4	3.36	R	1.73	0.78	0.71	1.51	1.38	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.77	R	1.73	0.23	0.26	0.10	0.12	∞
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							11.0	10.8	40
Expanded uncertainty (95% confidence interval)							21.9	21.6	

APD Uncertainty Budget based on IEC 63446 and IEC/IEEE 62209-1528 (6 GHz to 10 GHz)

Symbol	Error Description	Unc. ± dB	Prob. Dist.	Div. qi	ci (1g) / (1cm2)	ci (10g) / (4cm2)	Standard uncertainty ± dB (1g) / (1cm2)	Standard uncertainty ± dB (10g) / (4cm2)	vi
Uncertainty terms dependent on the measurement system									
psSAR	Module SAR V16.2	14.2	N	1	1	0.99	14.20	14.10	∞
PDC	Power Density Conversion	13.5	R	1.73	1	1	7.79	7.79	∞
u(ASAR)							16.20	16.11	
U							32.40	32.22	
Expanded uncertainty and effective degrees of freedom (95 % confidence interval)							1.22	1.21	

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PD Uncertainty Budget based on IEC IEEE 63195-1 for PTP-PR Reconstruction Mode and/or IPD Measurement at $d < \lambda/5$ under 24 GHz

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	2.00	R	1.73	1	1.15	∞
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						1.40	
U	Expanded uncertainty and effective degrees of freedom (95 % confidence interval)						2.80	

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16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g., ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g., age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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