



Element Materials Technology

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RF EXPOSURE EVALUATION REPORT

Applicant Name:

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

Date of Testing:

11/04/2024 – 11/26/2024

Test Report Issue Date:

1/28/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2410210077-02.BCG (Rev 2)

FCC ID:

BCGA3355

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Models:

A3355, A3356

Equipment Class	Band & Mode	F _{max} Frequency	Limit
PCB	1500-1550	1500-1550 MHz	1.0
PCB	1550-1600	1550-1600 MHz	1.0
PCB	1600-1650	1600-1650 MHz	1.0
PCB	1650-1700	1650-1700 MHz	1.0
PCB	1700-1750	1700-1750 MHz	1.0
PCB	1750-1800	1750-1800 MHz	1.0
PCB	1800-1850	1800-1850 MHz	1.0
PCB	1850-1900	1850-1900 MHz	1.0
PCB	1900-1950	1900-1950 MHz	1.0
PCB	1950-2000	1950-2000 MHz	1.0
PCB	2000-2050	2000-2050 MHz	1.0
PCB	2050-2100	2050-2100 MHz	1.0
PCB	2100-2150	2100-2150 MHz	1.0
PCB	2150-2200	2150-2200 MHz	1.0
PCB	2200-2250	2200-2250 MHz	1.0
PCB	2250-2300	2250-2300 MHz	1.0
PCB	2300-2350	2300-2350 MHz	1.0
PCB	2350-2400	2350-2400 MHz	1.0
PCB	2400-2450	2400-2450 MHz	1.0
PCB	2450-2500	2450-2500 MHz	1.0
PCB	2500-2550	2500-2550 MHz	1.0
PCB	2550-2600	2550-2600 MHz	1.0
PCB	2600-2650	2600-2650 MHz	1.0
PCB	2650-2700	2650-2700 MHz	1.0
PCB	2700-2750	2700-2750 MHz	1.0
PCB	2750-2800	2750-2800 MHz	1.0
PCB	2800-2850	2800-2850 MHz	1.0
PCB	2850-2900	2850-2900 MHz	1.0
PCB	2900-2950	2900-2950 MHz	1.0
PCB	2950-3000	2950-3000 MHz	1.0
PCB	3000-3050	3000-3050 MHz	1.0
PCB	3050-3100	3050-3100 MHz	1.0
PCB	3100-3150	3100-3150 MHz	1.0
PCB	3150-3200	3150-3200 MHz	1.0
PCB	3200-3250	3200-3250 MHz	1.0
PCB	3250-3300	3250-3300 MHz	1.0
PCB	3300-3350	3300-3350 MHz	1.0
PCB	3350-3400	3350-3400 MHz	1.0
PCB	3400-3450	3400-3450 MHz	1.0
PCB	3450-3500	3450-3500 MHz	1.0
PCB	3500-3550	3500-3550 MHz	1.0
PCB	3550-3600	3550-3600 MHz	1.0
PCB	3600-3650	3600-3650 MHz	1.0
PCB	3650-3700	3650-3700 MHz	1.0
PCB	3700-3750	3700-3750 MHz	1.0
PCB	3750-3800	3750-3800 MHz	1.0
PCB	3800-3850	3800-3850 MHz	1.0
PCB	3850-3900	3850-3900 MHz	1.0
PCB	3900-3950	3900-3950 MHz	1.0
PCB	3950-4000	3950-4000 MHz	1.0
PCB	4000-4050	4000-4050 MHz	1.0
PCB	4050-4100	4050-4100 MHz	1.0
PCB	4100-4150	4100-4150 MHz	1.0
PCB	4150-4200	4150-4200 MHz	1.0
PCB	4200-4250	4200-4250 MHz	1.0
PCB	4250-4300	4250-4300 MHz	1.0
PCB	4300-4350	4300-4350 MHz	1.0
PCB	4350-4400	4350-4400 MHz	1.0
PCB	4400-4450	4400-4450 MHz	1.0
PCB	4450-4500	4450-4500 MHz	1.0
PCB	4500-4550	4500-4550 MHz	1.0
PCB	4550-4600	4550-4600 MHz	1.0
PCB	4600-4650	4600-4650 MHz	1.0
PCB	4650-4700	4650-4700 MHz	1.0
PCB	4700-4750	4700-4750 MHz	1.0
PCB	4750-4800	4750-4800 MHz	1.0
PCB	4800-4850	4800-4850 MHz	1.0
PCB	4850-4900	4850-4900 MHz	1.0
PCB	4900-4950	4900-4950 MHz	1.0
PCB	4950-5000	4950-5000 MHz	1.0
PCB	5000-5050	5000-5050 MHz	1.0
PCB	5050-5100	5050-5100 MHz	1.0
PCB	5100-5150	5100-5150 MHz	1.0
PCB	5150-5200	5150-5200 MHz	1.0
PCB	5200-5250	5200-5250 MHz	1.0
PCB	5250-5300	5250-5300 MHz	1.0
PCB	5300-5350	5300-5350 MHz	1.0
PCB	5350-5400	5350-5400 MHz	1.0
PCB	5400-5450	5400-5450 MHz	1.0
PCB	5450-5500	5450-5500 MHz	1.0
PCB	5500-5550	5500-5550 MHz	1.0
PCB	5550-5600	5550-5600 MHz	1.0
PCB	5600-5650	5600-5650 MHz	1.0
PCB	5650-5700	5650-5700 MHz	1.0
PCB	5700-5750	5700-5750 MHz	1.0
PCB	5750-5800	5750-5800 MHz	1.0
PCB	5800-5850	5800-5850 MHz	1.0
PCB	5850-5900	5850-5900 MHz	1.0
PCB	5900-5950	5900-5950 MHz	1.0
PCB	5950-6000	5950-6000 MHz	1.0
PCB	6000-6050	6000-6050 MHz	1.0
PCB	6050-6100	6050-6100 MHz	1.0
PCB	6100-6150	6100-6150 MHz	1.0
PCB	6150-6200	6150-6200 MHz	1.0
PCB	6200-6250	6200-6250 MHz	1.0
PCB	6250-6300	6250-6300 MHz	1.0
PCB	6300-6350	6300-6350 MHz	1.0
PCB	6350-6400	6350-6400 MHz	1.0
PCB	6400-6450	6400-6450 MHz	1.0
PCB	6450-6500	6450-6500 MHz	1.0
PCB	6500-6550	6500-6550 MHz	1.0
PCB	6550-6600	6550-6600 MHz	1.0
PCB	6600-6650	6600-6650 MHz	1.0
PCB	6650-6700	6650-6700 MHz	1.0
PCB	6700-6750	6700-6750 MHz	1.0
PCB	6750-6800	6750-6800 MHz	1.0
PCB	6800-6850	6800-6850 MHz	1.0
PCB	6850-6900	6850-6900 MHz	1.0
PCB	6900-6950	6900-6950 MHz	1.0
PCB	6950-7000	6950-7000 MHz	1.0
PCB	7000-7050	7000-7050 MHz	1.0
PCB	7050-7100	7050-7100 MHz	1.0
PCB	7100-7150	7100-7150 MHz	1.0
PCB	7150-7200	7150-7200 MHz	1.0
PCB	7200-7250	7200-7250 MHz	1.0
PCB	7250-7300	7250-7300 MHz	1.0
PCB	7300-7350	7300-7350 MHz	1.0
PCB	7350-7400	7350-7400 MHz	1.0
PCB	7400-7450	7400-7450 MHz	1.0
PCB	7450-7500	7450-7500 MHz	1.0
PCB	7500-7550	7500-7550 MHz	1.0
PCB	7550-7600	7550-7600 MHz	1.0
PCB	7600-7650	7600-7650 MHz	1.0
PCB	7650-7700	7650-7700 MHz	1.0
PCB	7700-7750	7700-7750 MHz	1.0
PCB	7750-7800	7750-7800 MHz	1.0
PCB	7800-7850	7800-7850 MHz	1.0
PCB	7850-7900	7850-7900 MHz	1.0
PCB	7900-7950	7900-7950 MHz	1.0
PCB	7950-8000	7950-8000 MHz	1.0
PCB	8000-8050	8000-8050 MHz	1.0
PCB	8050-8100	8050-8100 MHz	1.0
PCB	8100-8150	8100-8150 MHz	1.0
PCB	8150-8200	8150-8200 MHz	1.0
PCB	8200-8250	8200-8250 MHz	1.0
PCB	8250-8300	8250-8300 MHz	1.0
PCB	8300-8350	8300-8350 MHz	1.0
PCB	8350-8400	8350-8400 MHz	1.0
PCB	8400-8450	8400-8450 MHz	1.0
PCB	8450-8500	8450-8500 MHz	1.0
PCB	8500-8550	8500-8550 MHz	1.0
PCB	8550-8600	8550-8600 MHz	1.0
PCB	8600-8650	8600-8650 MHz	1.0
PCB	8650-8700	8650-8700 MHz	1.0
PCB	8700-8750	8700-8750 MHz	1.0
PCB	8750-8800	8750-8800 MHz	1.0
PCB	8800-8850	8800-8850 MHz	1.0
PCB	8850-8900	8850-8900 MHz	1.0
PCB	8900-8950	8900-8950 MHz	1.0
PCB	8950-9000	8950-9000 MHz	1.0
PCB	9000-9050	9000-9050 MHz	1.0
PCB	9050-9100	9050-9100 MHz	1.0
PCB	9100-9150	9100-9150 MHz	1.0
PCB	9150-9200	9150-9200 MHz	1.0
PCB	9200-9250	9200-9250 MHz	1.0
PCB	9250-9300	9250-9300 MHz	1.0
PCB	9300-9350	9300-9350 MHz	1.0
PCB	9350-9400	9350-9400 MHz	1.0
PCB	9400-9450	9400-9450 MHz	1.0
PCB	9450-9500	9450-9500 MHz	1.0
PCB	9500-9550	9500-9550 MHz	1.0
PCB	9550-9600	9550-9600 MHz	1.0
PCB	9600-9650	9600-9650 MHz	1.0
PCB	9650-9700	9650-9700 MHz	1.0
PCB	9700-9750	9700-9750 MHz	1.0
PCB	9750-9800	9750-9800 MHz	1.0
PCB	9800-9850	9800-9850 MHz	1.0
PCB	9850-9900	9850-9900 MHz	1.0
PCB	9900-9950	9900-9950 MHz	1.0
PCB	9950-10000	9950-10000 MHz	1.0

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

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

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

RJ Ortanez

Executive Vice President



CERT #2041.02

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

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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 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2501.01 - 2685 MHz
NR Band n48	Data	3550 - 3700 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77	Data	3710.01 - 3969.99 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs a time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.10 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

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

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

1g SAR (W/kg)			
Mode/Band/Antenna	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit
UMTS 850 Ant 3b	0.7 dB	0.86 W/kg	1.6 W/kg
LTE Band 71 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 12 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 17 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 13 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 14 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 26 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 5 Ant 3b	0.7 dB	0.86 W/kg	
NR Band n71 Ant 3b	0.7 dB	0.86 W/kg	
NR Band n12 Ant 3b	0.7 dB	0.86 W/kg	
NR Band n14 Ant 3b	0.7 dB	0.86 W/kg	
NR Band n26 Ant 3b	0.7 dB	0.86 W/kg	
NR Band n5 Ant 3b	0.7 dB	0.86 W/kg	
UMTS 850 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 71 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 12 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 17 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 13 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 14 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 26 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 5 Ant 4	0.7 dB	0.86 W/kg	
NR Band n71 Ant 4	0.7 dB	0.86 W/kg	
NR Band n12 Ant 4	0.7 dB	0.86 W/kg	
NR Band n14 Ant 4	0.7 dB	0.86 W/kg	
NR Band n26 Ant 4	0.7 dB	0.86 W/kg	
NR Band n5 Ant 4	0.7 dB	0.86 W/kg	
All other modes/bands/antennas not already specified above	1.0 dB	0.80 W/kg	

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*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to the maximum Tune up output power +0.7/-1.0 dB conducted power tolerance and for UHB +/- 1.0 dB for conducted powers tolerance.

Exposure Scenario:	Ant 1a	Ant 1a	Ant 1b	Ant 1b	Ant 2a	Ant 2a	Ant 2b	Ant 2b	Ant 3a	Ant 3a	Ant 3b	Ant 3b	Ant 4	Ant 4
Averaging Volume:	1g	Maximum Tune up Output Power*	1g	Maximum Tune up Output Power*	1g	Maximum Tune up Output Power*	1g	Maximum Tune up Output Power*	1g	Maximum Tune up Output Power*	1g	Maximum Tune up Output Power*	1g	Maximum Tune up Output Power*
Spacing:	0 mm		0 mm		0 mm		0 mm		0 mm		0 mm		0 mm	
DSI:	1		1		1		1		1		1		1	
Technology/Band	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax
UMTS 850	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.30	24.50	18.50	25.00
UMTS 1750	N/A	N/A	11.40	23.00	N/A	N/A	12.90	23.50	12.00	24.00	N/A	N/A	13.30	25.00
UMTS 1900	N/A	N/A	11.30	23.00	N/A	N/A	12.50	23.50	11.40	24.00	N/A	N/A	13.40	25.00
LTE Band 71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.40	24.50	19.70	25.00
LTE Band 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.70	24.50	18.80	25.00
LTE Band 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.70	24.50	18.80	25.00
LTE Band 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.20	24.50	19.10	25.00
LTE Band 14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.20	24.50	19.10	25.00
LTE Band 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.30	24.50	18.50	25.00
LTE Band 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.30	24.50	18.50	25.00
LTE Band 5 ULCA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.30	24.50	18.50	25.00
LTE Band 4	N/A	N/A	11.40	24.00	N/A	N/A	12.90	25.00	12.00	24.00	N/A	N/A	13.30	25.00
LTE Band 66	N/A	N/A	11.40	24.00	N/A	N/A	12.90	25.00	12.00	24.00	N/A	N/A	13.30	25.00
LTE Band 2	N/A	N/A	11.30	23.00	N/A	N/A	12.50	23.50	11.40	24.00	N/A	N/A	13.40	25.00
LTE Band 25	N/A	N/A	11.30	23.00	N/A	N/A	12.50	23.50	11.40	24.00	N/A	N/A	13.40	25.00
LTE Band 30	N/A	N/A	13.30	22.50	N/A	N/A	13.50	23.50	11.60	21.00	N/A	N/A	10.60	20.90
LTE Band 7	N/A	N/A	13.30	22.50	N/A	N/A	13.30	23.50	11.00	24.00	N/A	N/A	10.80	25.00
LTE Band 7 ULCA	N/A	N/A	13.30	22.50	N/A	N/A	13.30	23.50	11.00	24.00	N/A	N/A	10.80	25.00
LTE Band 41 (PC3)	N/A	N/A	13.00	23.00	N/A	N/A	13.20	23.00	11.30	23.00	N/A	N/A	10.70	23.00
LTE Band 41 (PC3) ULCA	N/A	N/A	13.00	23.00	N/A	N/A	13.20	23.00	11.30	23.00	N/A	N/A	10.70	23.00
LTE Band 41 (PC2)	N/A	N/A	13.00	22.90	N/A	N/A	13.20	24.40	11.30	22.40	N/A	N/A	10.70	23.40
LTE Band 41 (PC2) ULCA	N/A	N/A	13.00	22.90	N/A	N/A	13.20	24.40	11.30	22.40	N/A	N/A	10.70	23.40
LTE Band 48	10.10	18.20	N/A	N/A	9.00	17.10	N/A	N/A	N/A	N/A	12.00	16.50	10.00	17.00
LTE Band 48 ULCA	10.10	18.20	N/A	N/A	9.00	17.10	N/A	N/A	N/A	N/A	12.00	16.50	10.00	17.00
NR Band n71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.40	24.50	19.70	25.00
NR Band n12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.70	24.50	18.80	25.00
NR Band n14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.20	24.50	19.10	25.00
NR Band n26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.30	24.50	18.50	25.00
NR Band n5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.30	24.50	18.50	25.00
NR Band n70	N/A	N/A	11.40	24.00	N/A	N/A	12.90	25.00	12.00	24.00	N/A	N/A	13.30	25.00
NR Band n66	N/A	N/A	11.40	24.00	N/A	N/A	12.90	25.00	12.00	24.00	N/A	N/A	13.30	25.00
NR Band n2	N/A	N/A	11.30	23.00	N/A	N/A	12.50	23.50	11.40	24.00	N/A	N/A	13.40	25.00
NR Band n25	N/A	N/A	11.30	23.00	N/A	N/A	12.50	23.50	11.40	24.00	N/A	N/A	13.40	25.00
NR Band n30	N/A	N/A	13.30	22.50	N/A	N/A	13.50	23.50	11.60	21.00	N/A	N/A	10.60	20.90
NR Band n7	N/A	N/A	13.30	22.50	N/A	N/A	13.30	23.50	11.00	24.00	N/A	N/A	10.80	25.00
NR Band n41 (PC3)	N/A	N/A	13.00	25.00	N/A	N/A	13.20	25.00	11.30	25.00	N/A	N/A	10.70	25.00
NR Band n41 (PC2)	N/A	N/A	13.00	26.50	N/A	N/A	13.20	28.00	11.30	26.00	N/A	N/A	10.70	27.00
NR Band n77 (PC3)	9.80	22.50	N/A	N/A	9.00	22.50	N/A	N/A	N/A	N/A	11.90	24.70	9.80	24.70
NR Band n77 (PC2)	9.80	22.50	N/A	N/A	9.00	22.50	N/A	N/A	N/A	N/A	11.90	26.50	9.80	25.50
NR Band n48	10.10	20.20	N/A	N/A	9.00	19.10	N/A	N/A	N/A	N/A	12.00	18.50	10.00	19.00

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

The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " + smart tx uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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

1.3 Power Reduction for SAR

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

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the WLAN Time-Averaged SAR Verification Appendix.

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1.4 Nominal and Maximum Output Power Specifications

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

1.4.1 WWAN Output Power

Table 1-1
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)	
			Ant 4	Ant 3b
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA	19.20	17.00
	Nominal	Rel 99	18.50	16.30
	Max allowed power	3GPP HSDPA	19.20	17.00
	Nominal	Rel 5	18.50	16.30
	Max allowed power	3GPP HSUPA	19.20	17.00
	Nominal	Rel 6	18.50	16.30
	Max allowed power	3GPP DC-	19.20	17.00
	Nominal	HSDPA Rel 8	18.50	16.30

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2b	Ant 3a	Ant 1b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA	14.30	13.90	13.00	12.40
	Nominal	Rel 99	13.30	12.90	12.00	11.40
	Max allowed power	3GPP HSDPA	14.30	13.90	13.00	12.40
	Nominal	Rel 5	13.30	12.90	12.00	11.40
	Max allowed power	3GPP HSUPA	14.30	13.90	13.00	12.40
	Nominal	Rel 6	13.30	12.90	12.00	11.40
	Max allowed power	3GPP DC-	14.30	13.90	13.00	12.40
	Nominal	HSDPA Rel 8	13.30	12.90	12.00	11.40

Table 1-3
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2b	Ant 3a	Ant 1b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA	14.40	13.50	12.40	12.30
	Nominal	Rel 99	13.40	12.50	11.40	11.30
	Max allowed power	3GPP HSDPA	14.40	13.50	12.40	12.30
	Nominal	Rel 5	13.40	12.50	11.40	11.30
	Max allowed power	3GPP HSUPA	14.40	13.50	12.40	12.30
	Nominal	Rel 6	13.40	12.50	11.40	11.30
	Max allowed power	3GPP DC-	14.40	13.50	12.40	12.30
	Nominal	HSDPA Rel 8	13.40	12.50	11.40	11.30

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**Table 1-4
LTE Bands**

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 4	Ant 3b	Ant 3a	Ant 2a	Ant 2b	Ant 1a	Ant 1b
LTE FDD Band 71	Max allowed power	20.40	18.10					
	Nominal	19.70	17.40					
LTE FDD Band 12	Max allowed power	19.50	17.40					
	Nominal	18.80	16.70					
LTE FDD Band 17	Max allowed power	19.50	17.40					
	Nominal	18.80	16.70					
LTE FDD Band 13	Max allowed power	19.80	16.90					
	Nominal	19.10	16.20					
LTE FDD Band 14	Max allowed power	19.80	16.90					
	Nominal	19.10	16.20					
LTE FDD Band 26	Max allowed power	19.20	17.00					
	Nominal	18.50	16.30					
LTE FDD Band 5	Max allowed power	19.20	17.00					
	Nominal	18.50	16.30					
LTE FDD Band 5 Intra-band ULCA	Max allowed power	19.20	17.00					
	Nominal	18.50	16.30					
LTE FDD Band 4	Max allowed power	14.30		13.00		13.90		12.40
	Nominal	13.30		12.00		12.90		11.40
LTE FDD Band 66	Max allowed power	14.30		13.00		13.90		12.40
	Nominal	13.30		12.00		12.90		11.40
LTE FDD Band 2	Max allowed power	14.40		12.40		13.50		12.30
	Nominal	13.40		11.40		12.50		11.30
LTE FDD Band 25	Max allowed power	14.40		12.40		13.50		12.30
	Nominal	13.40		11.40		12.50		11.30
LTE FDD Band 30	Max allowed power	11.60		12.60		14.50		14.30
	Nominal	10.60		11.60		13.50		13.30
LTE FDD Band 7	Max allowed power	11.80		12.00		14.30		14.30
	Nominal	10.80		11.00		13.30		13.30
LTE FDD Band 7 Intra-band ULCA	Max allowed power	11.80		12.00		14.30		14.30
	Nominal	10.80		11.00		13.30		13.30
LTE TDD Band 41 (PC3)	Max allowed power	13.70		14.30		16.20		16.00
	Nominal	12.70		13.30		15.20		15.00
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	13.70		14.30		16.20		16.00
	Nominal	12.70		13.30		15.20		15.00
LTE TDD Band 41 (PC2)	Max allowed power	15.30		15.90		17.80		17.60
	Nominal	14.30		14.90		16.80		16.60
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	15.30		15.90		17.80		17.60
	Nominal	14.30		14.90		16.80		16.60
LTE TDD Band 48	Max allowed power	13.00	15.00		12.00		13.10	
	Nominal	12.00	14.00		11.00		12.10	
LTE TDD Band 48 Intra-band ULCA	Max allowed power	13.00	15.00		12.00		13.10	
	Nominal	12.00	14.00		11.00		12.10	

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Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 4	Ant 3b	Ant 3a	Ant 2a	Ant 2b	Ant 1a	Ant 1b
NR FDD Band n71	Max allowed power	20.40	18.10					
	Nominal	19.70	17.40					
NR FDD Band n12	Max allowed power	19.50	17.40					
	Nominal	18.80	16.70					
NR FDD Band n14	Max allowed power	19.80	16.90					
	Nominal	19.10	16.20					
NR FDD Band n26	Max allowed power	19.20	17.00					
	Nominal	18.50	16.30					
NR FDD Band n5	Max allowed power	19.20	17.00					
	Nominal	18.50	16.30					
NR FDD Band n70	Max allowed power	14.30		13.00		13.90		12.40
	Nominal	13.30		12.00		12.90		11.40
NR FDD Band n66	Max allowed power	14.30		13.00		13.90		12.40
	Nominal	13.30		12.00		12.90		11.40
NR FDD Band n2	Max allowed power	14.40		12.40		13.50		12.30
	Nominal	13.40		11.40		12.50		11.30
NR FDD Band n25	Max allowed power	14.40		12.40		13.50		12.30
	Nominal	13.40		11.40		12.50		11.30
NR FDD Band n30	Max allowed power	11.60		12.60		14.50		14.30
	Nominal	10.60		11.60		13.50		13.30
NR FDD Band n7	Max allowed power	11.80		12.00		14.30		14.30
	Nominal	10.80		11.00		13.30		13.30
NR TDD Band n41 (PC3)[Burst Averaged]	Max allowed power	11.70		12.30		14.20		14.00
	Nominal	10.70		11.30		13.20		13.00
NR TDD Band n41 (PC2)[Burst Averaged]	Max allowed power	11.70		12.30		14.20		14.00
	Nominal	10.70		11.30		13.20		13.00
NR TDD Band n77 (PC3)[Burst Averaged]	Max allowed power	10.80	12.90		10.00		10.80	
	Nominal	9.80	11.90		9.00		9.80	
NR TDD Band n77 (PC2)[Burst Averaged]	Max allowed power	10.80	12.90		10.00		10.80	
	Nominal	9.80	11.90		9.00		9.80	
NR TDD Band n48	Max allowed power	11.00	13.00		10.00		11.10	
	Nominal	10.00	12.00		9.00		10.10	

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1.4.3

Reduced WLAN Time-Averaged Output Power

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

Table below is applicable in the following conditions:

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a											
		SISO b (Maximum)	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO g/n (Maximum)	MIMO g/n (Nominal)	MIMO ax SU (Maximum)	MIMO ax SU (Nominal)
2.4 GHz WRH 20 MHz Bandwidth	1	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	2	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	3	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	4	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	5	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	6	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	7	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	8	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	9	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	10	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	11	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	12	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25	7.75	6.25
	13	7.75	6.25	7.75	6.25	7.75	6.25	NS	NS	7.75	6.25	NS	NS

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

Table below is applicable in the following conditions:

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a											
		SISO b (Maximum)	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO g/n (Maximum)	MIMO g/n (Nominal)	MIMO ax SU (Maximum)	MIMO ax SU (Nominal)
2.4 GHz WRH 20 MHz Bandwidth	1	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	2	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	3	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	4	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	5	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	6	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	7	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	8	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	9	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	10	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	11	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	12	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	13	8.75	7.25	8.75	7.25	8.75	7.25	NS	NS	8.75	7.25	NS	NS

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

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2b
- Simultaneous conditions with Inter-Band ULCA active
- Simultaneous conditions with Licensed Bands Antenna 2a and BT Antenna 1a active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a											
		SISO a (Maximum)	SISO a (Nominal)	SISO n/c (Maximum)	SISO n/c (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO CSD n/c (Maximum)	MIMO CSD n/c (Nominal)	MIMO CSD ax SU (Maximum)	MIMO CSD ax SU (Nominal)	MIMO SDM n/c (Maximum)	MIMO SDM n/c (Nominal)
5 GHz WRH 20 MHz Bandwidth	36	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	40	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	44	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	48	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	52	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	56	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	60	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	64	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	68	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	72	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	76	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	80	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	84	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	88	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	92	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	96	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	100	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	104	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	108	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	112	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
5 GHz WRH 40 MHz Bandwidth	116	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	120	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	124	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	128	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	132	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	136	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	140	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	144	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	148	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	152	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
5 GHz WRH 80 MHz Bandwidth	156	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	160	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	164	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	168	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	172	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	176	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	180	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	184	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	188	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	192	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
5 GHz WRH 160 MHz Bandwidth	196	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

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1.4.4

Bluetooth Maximum Output Power

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
Bluetooth BDR	Maximum	12.50	12.50	12.50	12.50
	Nominal	11.00	11.00	11.00	11.00
Bluetooth EDR	Maximum	12.50	8.00	12.50	8.00
	Nominal	11.00	6.50	11.00	6.50
Bluetooth LE	Maximum	12.50	12.50	12.50	12.50
	Nominal	11.00	11.00	11.00	11.00
Bluetooth HDR4	Maximum	10.50	6.00	10.50	6.00
	Nominal	9.00	4.50	9.00	4.50
Bluetooth HDR8	Maximum	10.50	6.00	10.50	6.00
	Nominal	9.00	4.50	9.00	4.50

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

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
Bluetooth BDR	Maximum	13.50	11.50	13.50	11.50
	Nominal	12.00	10.00	12.00	10.00
Bluetooth EDR	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.00	5.50	12.00	5.50
Bluetooth LE	Maximum	13.50	11.50	13.50	11.50
	Nominal	12.00	10.00	12.00	10.00
Bluetooth HDR4	Maximum	10.50	5.00	10.50	5.00
	Nominal	9.00	3.50	9.00	3.50
Bluetooth HDR8	Maximum	10.50	5.00	10.50	5.00
	Nominal	9.00	3.50	9.00	3.50

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

1.4.5

Bluetooth Reduced Output Power

Table below is applicable in the following conditions:

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

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
Bluetooth BDR	Maximum	9.00	9.00	9.00	9.00
	Nominal	7.50	7.50	7.50	7.50
Bluetooth EDR	Maximum	9.00	8.00	9.00	8.00
	Nominal	7.50	6.50	7.50	6.50
Bluetooth LE	Maximum	9.00	9.00	9.00	9.00
	Nominal	7.50	7.50	7.50	7.50
Bluetooth HDR4	Maximum	9.00	6.00	9.00	6.00
	Nominal	7.50	4.50	7.50	4.50
Bluetooth HDR8	Maximum	9.00	6.00	9.00	6.00
	Nominal	7.50	4.50	7.50	4.50

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

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Table below is applicable in the following conditions:

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

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
Bluetooth BDR	Maximum	7.00	7.00	7.00	7.00
	Nominal	5.50	5.50	5.50	5.50
Bluetooth EDR	Maximum	7.00	7.00	7.00	7.00
	Nominal	5.50	5.50	5.50	5.50
Bluetooth LE	Maximum	7.00	7.00	7.00	7.00
	Nominal	5.50	5.50	5.50	5.50
Bluetooth HDR4	Maximum	7.00	6.00	7.00	6.00
	Nominal	5.50	4.50	5.50	4.50
Bluetooth HDR8	Maximum	7.00	6.00	7.00	6.00
	Nominal	5.50	4.50	5.50	4.50

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

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b and 5 GHz WLAN active
- Simultaneous conditions with Inter-Band ULCA active

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
Bluetooth BDR	Maximum	5.50	5.50	5.50	5.50
	Nominal	4.00	4.00	4.00	4.00
Bluetooth EDR	Maximum	5.50	5.50	5.50	5.50
	Nominal	4.00	4.00	4.00	4.00
Bluetooth LE	Maximum	5.50	5.50	5.50	5.50
	Nominal	4.00	4.00	4.00	4.00
Bluetooth HDR4	Maximum	5.50	5.50	5.50	5.50
	Nominal	4.00	4.00	4.00	4.00
Bluetooth HDR8	Maximum	5.50	5.50	5.50	5.50
	Nominal	4.00	4.00	4.00	4.00

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

Table below is applicable in the following conditions:

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

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
Bluetooth BDR	Maximum	10.00	10.00	10.00	10.00
	Nominal	8.50	8.50	8.50	8.50
Bluetooth EDR	Maximum	10.00	7.00	10.00	7.00
	Nominal	8.50	5.50	8.50	5.50
Bluetooth LE	Maximum	10.00	10.00	10.00	10.00
	Nominal	8.50	8.50	8.50	8.50
Bluetooth HDR4	Maximum	10.00	5.00	10.00	5.00
	Nominal	8.50	3.50	8.50	3.50
Bluetooth HDR8	Maximum	10.00	5.00	10.00	5.00
	Nominal	8.50	3.50	8.50	3.50

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

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Table below is applicable in the following conditions:

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

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
Bluetooth BDR	Maximum	8.00	8.00	8.00	8.00
	Nominal	6.50	6.50	6.50	6.50
Bluetooth EDR	Maximum	8.00	7.00	8.00	7.00
	Nominal	6.50	5.50	6.50	5.50
Bluetooth LE	Maximum	8.00	8.00	8.00	8.00
	Nominal	6.50	6.50	6.50	6.50
Bluetooth HDR4	Maximum	8.00	5.00	8.00	5.00
	Nominal	6.50	3.50	6.50	3.50
Bluetooth HDR8	Maximum	8.00	5.00	8.00	5.00
	Nominal	6.50	3.50	6.50	3.50

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

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4 and 5 GHz WLAN active
- Simultaneous conditions with Inter-Band ULCA active

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
Bluetooth BDR	Maximum	6.50	6.50	6.50	6.50
	Nominal	5.00	5.00	5.00	5.00
Bluetooth EDR	Maximum	6.50	6.50	6.50	6.50
	Nominal	5.00	5.00	5.00	5.00
Bluetooth LE	Maximum	6.50	6.50	6.50	6.50
	Nominal	5.00	5.00	5.00	5.00
Bluetooth HDR4	Maximum	6.50	5.00	6.50	5.00
	Nominal	5.00	3.50	5.00	3.50
Bluetooth HDR8	Maximum	6.50	5.00	6.50	5.00
	Nominal	5.00	3.50	5.00	3.50

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

1.5 DUT Antenna Locations

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

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

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1.6 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 1-6
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	Cellular Band + 2.4 GHz WI-FI	Yes
2	Cellular Band + 5 GHz WI-FI	Yes
3	Cellular Band + 2.4 GHz Bluetooth	Yes
4	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a	Yes
5	Cellular Band + 2.4 GHz WI-FI MIMO	Yes
6	Cellular Band + 5 GHz WI-FI MIMO	Yes
7	Cellular Band + 2.4 GHz Bluetooth (TxBF)	Yes
8	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
9	Cellular Band + 2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI	Yes
10	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
11	Cellular Band + 2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI MIMO	Yes
12	2.4 GHz Bluetooth Antenna 1a + 2.4 GHz WI-FI Antenna 3a	Yes
13	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
14	2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI	Yes
15	2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
16	2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI MIMO	Yes

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Table 1-7
Simultaneous Transmission Scenarios of Inter-Band ULCA

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

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

Table 1-8
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

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

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

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4 GHz WIFI and 2.4 GHz Bluetooth can transmit simultaneously on separate antennas. Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth is listed in the above table. In this scenario Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
3. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
4. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
5. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
6. This device supports VoWIFI.

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1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth configurations.

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

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) 3 Tx antenna output
- c) 256 QAM is supported
- d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 3 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

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

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(B) Licensed Transmitter(s)

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

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

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

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

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

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

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

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

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

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

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1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.9 Device Serial Numbers

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

1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2410210077-01.BCG
RF Exposure Part 2 Test Report	1C2410210077-03.BCG
RF Exposure Compliance Summary Report	1C2410210077-04.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Tablet				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1753.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1753.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
Channel Bandwidths	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 (2498.5 - 2587.5 MHz)				
	LTE Band 48 (2652.5 - 2697.5 MHz)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
Channel Numbers and Frequencies (MHz)	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
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)	695.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	698 (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 66 (AWS): 1.4 MHz	1710.7 (131879)	1745 (132322)	1779.3 (132865)		
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132967)		
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132947)		
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	1717.0 (131995)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (131965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (131975)	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	1860.7 (18607)	1880 (18900)	1903.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1861.5 (18615)	1880 (18900)	1903.5 (19195)		
LTE Band 2 (PCS): 5 MHz	1862.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1865 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1867.5 (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 7: 5 MHz	N/A	2310 (27710)	N/A		
LTE Band 7: 10 MHz	2502.5 (20175)	2535 (21100)	2565 (21425)		
LTE Band 7: 15 MHz	2505 (20900)	2535 (21100)	2565 (21400)		
LTE Band 7: 20 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	
LTE Band 48: 5 MHz	3552.5 (55265)	3600.3 (55748)	N/A	3649.2 (56232)	
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL					
LTE-MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.57 (manufacturer attestation to be provided)					
A-MPR (Additional MPR) disabled for SAR					
LTE Carrier Aggregation Possible					
The technical description includes all the possible carrier aggregation combinations					
LTE Additional Information					
This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted features section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 5 Specifications. The following LTE Release 15 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eICIC, WiFi Offloading, eMBS, 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.

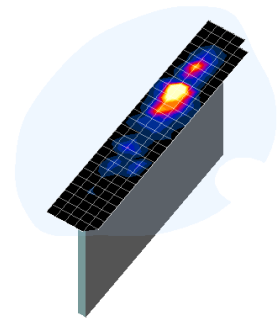


Figure 4-1
Sample SAR Area
Scan

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

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

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

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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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 ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1-gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

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

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7.4.2 Body SAR Measurements

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

7.4.3 SAR Measurements with Rel 5 HSDPA

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

7.4.4 SAR Measurements with Rel 6 HSUPA

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

7.4.5 SAR Measurement Conditions for DC-HSDPA

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

7.5 SAR Measurement Conditions for LTE

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

7.5.1 Spectrum Plots for RB Configurations

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

7.5.2 MPR

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

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7.5.3 A-MPR

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

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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

7.5.5 TDD

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

7.5.6 Downlink Only Carrier Aggregation

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

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7.6 SAR Testing with 802.11 Transmitters

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

7.6.1 General Device Setup

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

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

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

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

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

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

7.6.4 2.4 GHz SAR Test Requirements

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

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

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- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

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

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

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

7.6.6 Initial Test Configuration Procedure

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

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

7.6.7 Subsequent Test Configuration Procedures

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

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7.6.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is $<1.6 \text{ W/kg}$, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8 RF CONDUCTED POWERS

8.1 UMTS P_{limit} Conducted Powers

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	11.25	11.33	11.35	11.32	11.36	11.32	-
6	HSDPA	Subtest 1	10.94	10.97	11.03	10.90	10.83	10.86	0
6		Subtest 2	10.93	10.95	10.98	10.91	10.82	10.87	0
6		Subtest 3	10.44	10.46	10.50	10.39	10.31	10.37	0.5
6		Subtest 4	10.45	10.47	10.51	10.38	10.33	10.35	0.5
6	HSUPA	Subtest 1	10.97	11.00	11.05	10.90	10.86	10.88	0
6		Subtest 2	8.96	8.99	9.03	8.89	8.86	8.87	2
6		Subtest 3	9.97	10.00	10.04	9.88	9.85	9.88	1
6		Subtest 4	8.98	9.01	9.05	8.91	8.87	8.90	2
6		Subtest 5	11.01	11.04	11.08	10.94	10.88	10.88	0
8	DC-HSDPA	Subtest 1	10.99	11.01	11.07	10.94	10.84	10.88	0
8		Subtest 2	10.97	10.99	11.05	10.92	10.85	10.89	0
8		Subtest 3	10.49	10.51	10.56	10.44	10.37	10.41	0.5
8		Subtest 4	10.48	10.50	10.57	10.43	10.35	10.38	0.5

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	12.65	12.69	12.70	12.51	12.55	12.46	-
6	HSDPA	Subtest 1	12.53	12.57	12.72	12.34	12.48	12.47	0
6		Subtest 2	12.53	12.56	12.70	12.34	12.49	12.46	0
6		Subtest 3	12.01	12.04	12.20	11.82	11.98	11.97	0.5
6		Subtest 4	12.00	12.04	12.21	11.81	11.98	11.95	0.5
6	HSUPA	Subtest 1	12.54	12.58	12.75	12.37	12.53	12.50	0
6		Subtest 2	10.53	10.57	10.74	10.38	10.54	10.52	2
6		Subtest 3	11.52	11.58	11.74	11.36	11.54	11.51	1
6		Subtest 4	10.53	10.57	10.75	10.38	10.53	10.52	2
6		Subtest 5	12.54	12.61	12.73	12.37	12.55	12.52	0
8	DC-HSDPA	Subtest 1	12.59	12.61	12.75	12.43	12.56	12.51	0
8		Subtest 2	12.56	12.58	12.71	12.40	12.52	12.48	0
8		Subtest 3	12.08	12.08	12.22	11.91	12.04	12.02	0.5
8		Subtest 4	12.07	12.09	12.23	11.92	12.05	12.03	0.5

Table 8-3
Measured 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	12.23	12.17	12.08	11.83	11.87	11.77	-
6	HSDPA	Subtest 1	12.01	12.00	11.84	11.61	11.63	11.52	0
6		Subtest 2	11.99	11.97	11.81	11.60	11.59	11.50	0
6		Subtest 3	11.48	11.47	11.32	11.11	11.09	11.02	0.5
6		Subtest 4	11.49	11.48	11.31	11.14	11.13	11.04	0.5
6	HSUPA	Subtest 1	11.97	11.95	11.79	11.62	11.59	11.53	0
6		Subtest 2	9.99	9.98	9.80	9.61	9.62	9.54	2
6		Subtest 3	11.00	10.97	11.78	10.63	10.62	10.53	1
6		Subtest 4	9.98	9.97	9.79	9.62	9.61	9.55	2
6		Subtest 5	11.98	11.96	11.81	11.64	11.63	11.56	0
8	DC-HSDPA	Subtest 1	12.04	12.00	11.85	11.65	11.64	11.58	0
8		Subtest 2	12.02	11.98	11.81	11.64	11.60	11.57	0
8		Subtest 3	11.52	11.47	11.30	11.16	11.12	11.06	0.5
8		Subtest 4	11.51	11.48	11.32	11.15	11.11	11.08	0.5

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Table 8-4
Measured 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	16.05	16.06	16.08	-
6	HSDPA	Subtest 1	15.96	16.06	16.05	0
6		Subtest 2	15.93	16.04	16.02	0
6		Subtest 3	15.44	15.55	15.53	0.5
6		Subtest 4	15.45	15.56	15.52	0.5
6	HSUPA	Subtest 1	15.96	16.04	16.00	0
6		Subtest 2	13.97	14.04	13.99	2
6		Subtest 3	14.97	15.03	14.99	1
6		Subtest 4	14.00	14.06	14.01	2
6		Subtest 5	15.98	16.03	16.00	0
8	DC-HSDPA	Subtest 1	15.97	16.04	16.00	0
8		Subtest 2	15.96	16.04	15.99	0
8		Subtest 3	15.47	15.54	15.48	0.5
8		Subtest 4	15.47	15.53	15.48	0.5

Table 8-5
Measured P_{limit} Antenna 4

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.11	18.21	18.19	13.02	13.00	12.81	13.55	13.66	13.52	-
6	HSDPA	Subtest 1	18.14	18.23	18.21	12.69	12.80	12.72	13.29	13.30	13.16	0
6		Subtest 2	18.17	18.23	18.22	12.67	12.81	12.70	13.30	13.29	13.14	0
6		Subtest 3	17.64	17.74	17.71	12.18	12.32	12.21	12.79	12.78	12.66	0.5
6		Subtest 4	17.63	17.74	17.70	12.17	12.31	12.22	12.79	12.77	12.64	0.5
6	HSUPA	Subtest 1	18.14	18.22	18.17	12.66	12.77	12.64	13.22	13.26	13.18	0
6		Subtest 2	16.14	16.21	16.18	10.65	10.75	10.63	11.21	11.26	11.17	2
6		Subtest 3	17.13	17.20	17.15	11.65	11.76	11.63	12.20	12.26	12.17	1
6		Subtest 4	16.12	16.19	16.17	10.64	10.75	10.62	11.21	11.27	11.19	2
6		Subtest 5	18.13	18.19	18.17	12.65	12.76	12.66	13.22	13.28	13.17	0
8	DC-HSDPA	Subtest 1	17.97	18.14	18.12	12.63	12.76	12.65	13.36	13.45	13.34	0
8		Subtest 2	17.99	18.16	18.14	12.62	12.74	12.64	13.35	13.44	13.32	0
8		Subtest 3	17.49	17.66	17.61	12.15	12.25	12.13	12.85	12.95	12.84	0.5
8		Subtest 4	17.48	17.65	17.63	12.14	12.26	12.15	12.86	12.96	12.83	0.5

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DC-HSDPA considerations

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



Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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

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

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	17.41	0	0
	1	50	17.43		0
	1	99	17.45		0
	50	0	17.40	0-1	0
	50	25	17.47		0
	50	50	17.46		0
	100	0	17.44		0
16QAM	1	0	17.67	0-1	0
	1	50	17.88		0
	1	99	17.74		0
	50	0	17.53	0-2	0
	50	25	17.53		0
	50	50	17.57		0
	100	0	17.56		0
64QAM	1	0	17.58	0-2	0
	1	50	17.73		0
	1	99	17.64		0
	50	0	17.51	0-3	0
	50	25	17.56		0
	50	50	17.57		0
	100	0	17.59		0
256QAM	1	0	17.60	0-5	0
	1	50	17.68		0
	1	99	17.75		0
	50	0	17.53		0
	50	25	17.56		0
	50	50	17.59		0
	100	0	17.59		0

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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	19.25	0	0
	1	50	19.17		0
	1	99	19.06		0
	50	0	19.23	0-1	0
	50	25	19.27		0
	50	50	19.16		0
	100	0	19.18		0
16QAM	1	0	19.31	0-1	0
	1	50	19.61		0
	1	99	19.34		0
	50	0	19.22	0-2	0
	50	25	19.28		0
	50	50	19.20		0
	100	0	19.26		0
64QAM	1	0	19.30	0-2	0
	1	50	19.31		0
	1	99	19.14		0
	50	0	19.21	0-3	0
	50	25	19.27		0
	50	50	19.16		0
	100	0	19.25		0
256QAM	1	0	19.27	0-5	0
	1	50	19.30		0
	1	99	19.35		0
	50	0	19.21		0
	50	25	19.26		0
	50	50	19.24		0
	100	0	19.25		0

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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	16.74	0	0
	1	25	16.73		0
	1	49	16.82		0
	25	0	16.76	0-1	0
	25	12	16.85		0
	25	25	16.80		0
	50	0	16.81		0
16QAM	1	0	16.90	0-1	0
	1	25	16.93		0
	1	49	16.89		0
	25	0	16.60	0-2	0
	25	12	16.67		0
	25	25	16.65		0
	50	0	16.67		0
64QAM	1	0	16.67	0-2	0
	1	25	16.76		0
	1	49	16.79		0
	25	0	16.59	0-3	0
	25	12	16.66		0
	25	25	16.63		0
	50	0	16.63		0
256QAM	1	0	16.69	0-5	0
	1	25	16.77		0
	1	49	16.71		0
	25	0	16.61		0
	25	12	16.71		0
	25	25	16.64		0
	50	0	16.62		0

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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	18.74	0	0
	1	25	18.77		0
	1	49	18.80		0
	25	0	18.67	0-1	0
	25	12	18.78		0
	25	25	18.72		0
	50	0	18.70		0
16QAM	1	0	18.97	0-1	0
	1	25	18.92		0
	1	49	19.02		0
	25	0	18.68	0-2	0
	25	12	18.75		0
	25	25	18.71		0
	50	0	18.74		0
64QAM	1	0	18.97	0-2	0
	1	25	18.91		0
	1	49	19.05		0
	25	0	18.64	0-3	0
	25	12	18.76		0
	25	25	18.68		0
	50	0	18.74		0
256QAM	1	0	19.00	0-5	0
	1	25	18.90		0
	1	49	19.08		0
	25	0	18.67		0
	25	12	18.74		0
	25	25	18.72		0
	50	0	18.73		0

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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	16.12	0	0
	1	25	16.17		0
	1	49	16.32		0
	25	0	16.24	0-1	0
	25	12	16.31		0
	25	25	16.28		0
	50	0	16.30		0
16QAM	1	0	16.40	0-1	0
	1	25	16.46		0
	1	49	16.45		0
	25	0	16.15	0-2	0
	25	12	16.20		0
	25	25	16.22		0
	50	0	16.16		0
64QAM	1	0	16.32	0-2	0
	1	25	16.22		0
	1	49	16.27		0
	25	0	16.17	0-3	0
	25	12	16.23		0
	25	25	16.21		0
	50	0	16.21		0
256QAM	1	0	16.12	0-5	0
	1	25	16.31		0
	1	49	16.21		0
	25	0	16.12		0
	25	12	16.23		0
	25	25	16.21		0
	50	0	16.22		0

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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	19.12	0	0
	1	25	19.10		0
	1	49	19.11		0
	25	0	19.13	0-1	0
	25	12	19.20		0
	25	25	19.15		0
	50	0	18.98		0
16QAM	1	0	19.22	0-1	0
	1	25	19.27		0
	1	49	19.29		0
	25	0	19.08	0-2	0
	25	12	19.15		0
	25	25	19.08		0
	50	0	19.11		0
64QAM	1	0	19.08	0-2	0
	1	25	19.25		0
	1	49	19.21		0
	25	0	19.05	0-3	0
	25	12	19.11		0
	25	25	19.05		0
	50	0	19.10		0
256QAM	1	0	19.10	0-5	0
	1	25	19.31		0
	1	49	19.18		0
	25	0	19.02		0
	25	12	19.09		0
	25	25	19.07		0
	50	0	19.09		0

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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	16.24	0	0
	1	25	16.10		0
	1	49	16.17		0
	25	0	16.16	0-1	0
	25	12	16.26		0
	25	25	16.21		0
	50	0	16.22		0
16QAM	1	0	16.37	0-1	0
	1	25	16.45		0
	1	49	16.48		0
	25	0	16.08	0-2	0
	25	12	16.20		0
	25	25	16.12		0
	50	0	16.14		0
64QAM	1	0	16.35	0-2	0
	1	25	16.32		0
	1	49	16.33		0
	25	0	16.09	0-3	0
	25	12	16.16		0
	25	25	16.11		0
	50	0	16.14		0
256QAM	1	0	16.24	0-5	0
	1	25	16.33		0
	1	49	16.23		0
	25	0	16.10		0
	25	12	16.15		0
	25	25	16.12		0
	50	0	16.13		0

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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	18.90	0	0
	1	25	18.86		0
	1	49	18.85		0
	25	0	18.75	0-1	0
	25	12	18.83		0
	25	25	18.77		0
	50	0	18.78		0
16QAM	1	0	19.02	0-1	0
	1	25	18.90		0
	1	49	18.98		0
	25	0	18.64	0-2	0
	25	12	18.74		0
	25	25	18.68		0
	50	0	18.68		0
64QAM	1	0	18.97	0-2	0
	1	25	18.89		0
	1	49	18.86		0
	25	0	18.69	0-3	0
	25	12	18.74		0
	25	25	18.67		0
	50	0	18.70		0
256QAM	1	0	18.70	0-5	0
	1	25	18.76		0
	1	49	18.67		0
	25	0	18.62		0
	25	12	18.70		0
	25	25	18.64		0
	50	0	18.69		0

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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	16.23	16.20	16.15	0	0
	1	25	16.30	16.28	16.18		0
	1	49	16.16	16.29	16.33		0
	25	0	16.20	16.14	16.26	0-1	0
	25	12	16.32	16.23	16.31		0
	25	25	16.26	16.21	16.35		0
	50	0	16.24	16.20	16.19		0
16QAM	1	0	16.43	16.40	16.25	0-1	0
	1	25	16.33	16.31	16.39		0
	1	49	16.29	16.36	16.44		0
	25	0	16.08	16.02	16.15	0-2	0
	25	12	16.19	16.07	16.18		0
	25	25	16.15	16.07	16.23		0
	50	0	16.16	16.10	16.15		0
64QAM	1	0	16.30	16.36	16.31	0-2	0
	1	25	16.37	16.27	16.40		0
	1	49	16.35	16.25	16.33		0
	25	0	16.07	16.02	16.17	0-3	0
	25	12	16.14	16.06	16.18		0
	25	25	16.13	16.06	16.24		0
	50	0	16.17	16.08	16.15		0
256QAM	1	0	16.26	16.19	16.14	0-5	0
	1	25	16.25	16.12	16.27		0
	1	49	16.19	16.13	16.35		0
	25	0	16.13	16.05	16.17		0
	25	12	16.18	16.15	16.20		0
	25	25	16.15	16.12	16.23		0
	50	0	16.11	16.11	16.17		0

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Table 8-15
LTE Band 26 Measured P_{limit} Antenna 4 – 10 MHz

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	18.02	18.08	18.01	0	0
	1	25	17.92	18.07	17.92		0
	1	49	17.93	18.11	17.93		0
	25	0	17.95	17.99	18.01	0-1	0
	25	12	18.03	18.07	18.03		0
	25	25	17.99	17.98	18.02		0
	50	0	17.96	18.00	17.98		0
16QAM	1	0	18.11	17.97	18.12	0-1	0
	1	25	18.08	17.99	18.05		0
	1	49	18.03	18.04	18.05		0
	25	0	17.75	17.73	17.76	0-2	0
	25	12	17.86	17.79	17.86		0
	25	25	17.83	17.79	17.89		0
	50	0	17.85	17.80	17.79		0
64QAM	1	0	18.02	17.99	18.12	0-2	0
	1	25	18.08	17.97	18.07		0
	1	49	17.88	17.94	18.13		0
	25	0	17.75	17.72	17.76	0-3	0
	25	12	17.86	17.81	17.87		0
	25	25	17.83	17.80	17.86		0
	50	0	17.83	17.81	17.78		0
256QAM	1	0	17.69	17.80	17.86	0-5	0
	1	25	18.08	17.86	18.08		0
	1	49	17.81	17.85	17.86		0
	25	0	17.76	17.77	17.77		0
	25	12	17.84	17.86	17.86		0
	25	25	17.82	17.81	17.88		0
	50	0	17.85	17.79	17.78		0

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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	16.14	0	0
	1	25	16.09		0
	1	49	16.18		0
	25	0	16.10	0-1	0
	25	12	16.11		0
	25	25	16.04		0
	50	0	16.06		0
16QAM	1	0	16.25	0-1	0
	1	25	16.26		0
	1	49	16.29		0
	25	0	16.00	0-2	0
	25	12	16.05		0
	25	25	16.09		0
	50	0	15.99		0
64QAM	1	0	16.29	0-2	0
	1	25	16.26		0
	1	49	16.23		0
	25	0	15.94	0-3	0
	25	12	16.07		0
	25	25	16.04		0
	50	0	16.03		0
256QAM	1	0	16.02	0-5	0
	1	25	16.21		0
	1	49	16.20		0
	25	0	15.92		0
	25	12	16.04		0
	25	25	16.01		0
	50	0	16.00		0

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

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC					SCC								Power		
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	15.95	16.06

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Table 8-18
LTE Band 5 Measured P_{limit} Antenna 4 – 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.02	0	0
	1	25	18.01		0
	1	49	18.08		0
	25	0	18.02	0-1	0
	25	12	18.09		0
	25	25	18.08		0
	50	0	18.04		0
16QAM	1	0	18.34	0-1	0
	1	25	18.38		0
	1	49	18.39		0
	25	0	18.08	0-2	0
	25	12	18.17		0
	25	25	18.15		0
	50	0	18.12		0
64QAM	1	0	18.18	0-2	0
	1	25	18.27		0
	1	49	18.35		0
	25	0	18.10	0-3	0
	25	12	18.21		0
	25	25	18.18		0
	50	0	18.15		0
256QAM	1	0	18.02	0-5	0
	1	25	18.33		0
	1	49	18.13		0
	25	0	18.06		0
	25	12	18.17		0
	25	25	18.14		0
	50	0	18.15		0

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

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	17.90	18.04

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8.2.7 LTE Band 66

Table 8-20
LTE Band 66 (AWS) Measured P_{limit} Antenna 1b – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.49	11.40	11.27	0	0
	1	50	11.44	11.50	11.35		0
	1	99	11.44	11.39	11.25		0
	50	0	11.40	11.48	11.33	0-1	0
	50	25	11.53	11.57	11.35		0
	50	50	11.48	11.51	11.38		0
	100	0	11.47	11.45	11.34		0
16QAM	1	0	11.44	11.48	11.26	0-1	0
	1	50	11.42	11.51	11.34		0
	1	99	11.46	11.35	11.24		0
	50	0	11.25	11.23	11.13	0-2	0
	50	25	11.39	11.33	11.24		0
	50	50	11.32	11.29	11.19		0
	100	0	11.33	11.22	11.23		0
64QAM	1	0	11.42	11.66	11.34	0-2	0
	1	50	11.52	11.51	11.36		0
	1	99	11.30	11.34	11.28		0
	50	0	11.27	11.24	11.14	0-3	0
	50	25	11.36	11.32	11.27		0
	50	50	11.29	11.24	11.19		0
	100	0	11.29	11.26	11.21		0
256QAM	1	0	11.40	11.57	11.34	0-5	0
	1	50	11.63	11.45	11.41		0
	1	99	11.34	11.37	11.22		0
	50	0	11.24	11.25	11.18		0
	50	25	11.34	11.32	11.24		0
	50	50	11.30	11.28	11.22		0
	100	0	11.30	11.25	11.25		0

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Table 8-21
LTE Band 66 (AWS) Measured P_{limit} Antenna 2b – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.63	12.67	12.56	0	0
	1	50	12.64	12.70	12.69		0
	1	99	12.59	12.73	12.52		0
	50	0	12.57	12.68	12.67	0-1	0
	50	25	12.63	12.78	12.76		0
	50	50	12.64	12.77	12.72		0
	100	0	12.62	12.70	12.68		0
16QAM	1	0	12.54	12.72	12.93	0-1	0
	1	50	12.64	12.86	13.06		0
	1	99	12.50	12.67	12.86		0
	50	0	12.61	12.65	12.75	0-2	0
	50	25	12.68	12.70	12.87		0
	50	50	12.60	12.67	12.81		0
	100	0	12.65	12.66	12.75		0
64QAM	1	0	12.61	12.78	12.86	0-2	0
	1	50	12.88	12.92	12.96		0
	1	99	12.74	12.92	12.67		0
	50	0	12.65	12.65	12.75	0-3	0
	50	25	12.67	12.73	12.88		0
	50	50	12.61	12.69	12.77		0
	100	0	12.64	12.68	12.75		0
256QAM	1	0	12.74	12.82	12.78	0-5	0
	1	50	12.73	12.94	12.85		0
	1	99	12.70	12.87	12.76		0
	50	0	12.65	12.66	12.69		0
	50	25	12.68	12.71	12.75		0
	50	50	12.62	12.72	12.77		0
	100	0	12.66	12.66	12.68		0

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Table 8-22
LTE Band 66 (AWS) Measured P_{limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.28	12.39	12.18	0	0
	1	50	12.33	12.38	12.37		0
	1	99	12.27	12.30	12.22		0
	50	0	12.34	12.33	12.27	0-1	0
	50	25	12.36	12.42	12.38		0
	50	50	12.38	12.35	12.36		0
	100	0	12.37	12.38	12.35		0
16QAM	1	0	12.57	12.61	12.34	0-1	0
	1	50	12.51	12.55	12.36		0
	1	99	12.43	12.67	12.20		0
	50	0	12.38	12.28	12.29	0-2	0
	50	25	12.47	12.36	12.41		0
	50	50	12.42	12.28	12.40		0
	100	0	12.46	12.35	12.28		0
64QAM	1	0	12.66	12.40	12.36	0-2	0
	1	50	12.50	12.44	12.43		0
	1	99	12.41	12.53	12.38		0
	50	0	12.34	12.27	12.24	0-3	0
	50	25	12.48	12.35	12.40		0
	50	50	12.35	12.29	12.33		0
	100	0	12.40	12.28	12.31		0
256QAM	1	0	12.46	12.48	12.42	0-5	0
	1	50	12.39	12.42	12.53		0
	1	99	12.48	12.39	12.54		0
	50	0	12.31	12.28	12.21		0
	50	25	12.42	12.31	12.38		0
	50	50	12.37	12.27	12.38		0
	100	0	12.39	12.27	12.29		0

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Table 8-23
LTE Band 66 (AWS) Measured P_{limit} Antenna 4 – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.82	12.80	12.75	0	0
	1	50	12.79	12.92	12.78		0
	1	99	12.90	12.73	12.60		0
	50	0	12.81	12.86	12.78	0-1	0
	50	25	12.93	12.96	12.80		0
	50	50	12.91	12.88	12.81		0
	100	0	12.86	12.91	12.76		0
16QAM	1	0	12.67	12.96	12.87	0-1	0
	1	50	12.81	13.00	12.87		0
	1	99	12.78	12.93	12.90		0
	50	0	12.60	12.63	12.62	0-2	0
	50	25	12.70	12.72	12.61		0
	50	50	12.70	12.68	12.66		0
	100	0	12.67	12.69	12.62		0
64QAM	1	0	12.75	12.88	12.72	0-2	0
	1	50	12.86	12.90	12.90		0
	1	99	12.78	12.82	12.59		0
	50	0	12.64	12.64	12.56	0-3	0
	50	25	12.73	12.72	12.56		0
	50	50	12.72	12.66	12.59		0
	100	0	12.69	12.70	12.53		0
256QAM	1	0	12.67	12.78	12.71	0-5	0
	1	50	12.84	12.71	12.62		0
	1	99	12.84	12.70	12.71		0
	50	0	12.63	12.64	12.55		0
	50	25	12.71	12.68	12.58		0
	50	50	12.69	12.67	12.61		0
	100	0	12.69	12.65	12.55		0

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8.2.8 LTE Band 25

Table 8-24
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	11.01	11.21	11.30	0	0
	1	50	11.11	11.20	11.49		0
	1	99	11.04	11.30	11.32		0
	50	0	11.27	11.27	11.35	0-1	0
	50	25	11.35	11.37	11.54		0
	50	50	11.33	11.32	11.43		0
	100	0	11.09	11.28	11.20		0
16QAM	1	0	11.32	11.50	11.63	0-1	0
	1	50	11.43	11.63	11.82		0
	1	99	11.42	11.63	11.61		0
	50	0	11.32	11.36	11.40	0-2	0
	50	25	11.41	11.38	11.40		0
	50	50	11.38	11.44	11.46		0
	100	0	11.36	11.37	11.41		0
64QAM	1	0	11.36	11.49	11.52	0-2	0
	1	50	11.49	11.62	11.63		0
	1	99	11.37	11.50	11.48		0
	50	0	11.32	11.34	11.40	0-3	0
	50	25	11.39	11.36	11.39		0
	50	50	11.38	11.44	11.46		0
	100	0	11.38	11.33	11.39		0
256QAM	1	0	11.48	11.37	11.50	0-5	0
	1	50	11.46	11.60	11.54		0
	1	99	11.63	11.53	11.58		0
	50	0	11.32	11.34	11.36		0
	50	25	11.38	11.35	11.44		0
	50	50	11.39	11.46	11.49		0
	100	0	11.38	11.33	11.40		0

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

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.22	12.32	12.26	0	0
	1	50	12.42	12.49	12.32		0
	1	99	12.39	12.36	12.21		0
	50	0	12.29	12.47	12.38	0-1	0
	50	25	12.45	12.49	12.34		0
	50	50	12.49	12.52	12.32		0
	100	0	12.41	12.48	12.31		0
16QAM	1	0	12.31	12.67	12.70	0-1	0
	1	50	12.51	12.82	12.69		0
	1	99	12.48	12.68	12.56		0
	50	0	12.28	12.46	12.43	0-2	0
	50	25	12.39	12.45	12.45		0
	50	50	12.41	12.57	12.41		0
	100	0	12.34	12.45	12.44		0
64QAM	1	0	12.46	12.69	12.63	0-2	0
	1	50	12.81	12.88	12.68		0
	1	99	12.70	12.73	12.58		0
	50	0	12.40	12.52	12.55	0-3	0
	50	25	12.49	12.54	12.60		0
	50	50	12.52	12.66	12.57		0
	100	0	12.48	12.62	12.56		0
256QAM	1	0	12.45	12.64	12.72	0-5	0
	1	50	12.60	12.74	12.72		0
	1	99	12.70	12.80	12.71		0
	50	0	12.36	12.49	12.55		0
	50	25	12.49	12.57	12.60		0
	50	50	12.54	12.64	12.53		0
	100	0	12.47	12.62	12.61		0

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Table 8-26
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	11.83	11.80	11.74	0	0
	1	50	11.90	11.91	11.89		0
	1	99	11.81	11.81	11.72		0
	50	0	11.88	11.83	11.85	0-1	0
	50	25	11.93	11.94	11.92		0
	50	50	11.91	11.89	11.87		0
	100	0	11.89	11.90	11.88		0
16QAM	1	0	12.02	12.02	12.03	0-1	0
	1	50	12.04	12.15	12.14		0
	1	99	11.90	12.07	12.05		0
	50	0	11.88	11.91	11.90	0-2	0
	50	25	11.93	11.91	11.89		0
	50	50	11.92	11.88	11.90		0
	100	0	11.89	11.87	11.89		0
64QAM	1	0	11.96	11.98	11.89	0-2	0
	1	50	12.09	12.29	12.19		0
	1	99	11.88	11.98	11.92		0
	50	0	11.92	11.88	11.86	0-3	0
	50	25	11.93	11.87	11.90		0
	50	50	11.90	11.87	11.90		0
	100	0	11.92	11.86	11.89		0
256QAM	1	0	11.95	11.88	12.04	0-5	0
	1	50	12.03	11.79	12.00		0
	1	99	11.99	12.03	12.15		0
	50	0	11.92	11.86	11.84		0
	50	25	11.93	11.86	11.89		0
	50	50	11.89	11.87	11.86		0
	100	0	11.91	11.83	11.85		0

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Table 8-27
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	13.40	13.25	13.21	0	0
	1	50	13.46	13.32	13.33		0
	1	99	13.35	13.21	13.22		0
	50	0	13.47	13.31	13.26	0-1	0
	50	25	13.51	13.34	13.35		0
	50	50	13.44	13.35	13.32		0
	100	0	13.43	13.30	13.31		0
16QAM	1	0	13.25	13.38	13.31	0-1	0
	1	50	13.40	13.44	13.48		0
	1	99	13.42	13.41	13.32		0
	50	0	13.30	13.23	13.10	0-2	0
	50	25	13.30	13.17	13.08		0
	50	50	13.31	13.28	13.18		0
	100	0	13.29	13.17	13.07		0
64QAM	1	0	13.35	13.46	13.39	0-2	0
	1	50	13.50	13.57	13.53		0
	1	99	13.46	13.44	13.36		0
	50	0	13.34	13.35	13.28	0-3	0
	50	25	13.42	13.40	13.27		0
	50	50	13.43	13.42	13.34		0
	100	0	13.42	13.39	13.31		0
256QAM	1	0	13.39	13.34	13.34	0-5	0
	1	50	13.50	13.43	13.33		0
	1	99	13.58	13.57	13.46		0
	50	0	13.31	13.35	13.26		0
	50	25	13.43	13.45	13.27		0
	50	50	13.42	13.44	13.37		0
	100	0	13.40	13.42	13.31		0

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8.2.9 LTE Band 30

Table 8-28
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	13.23	0	0
	1	25	13.30		0
	1	49	13.17		0
	25	0	13.32	0-1	0
	25	12	13.31		0
	25	25	13.20		0
	50	0	13.24		0
16QAM	1	0	13.57	0-1	0
	1	25	13.63		0
	1	49	13.51		0
	25	0	13.39	0-2	0
	25	12	13.38		0
	25	25	13.27		0
	50	0	13.34		0
64QAM	1	0	13.53	0-2	0
	1	25	13.54		0
	1	49	13.44		0
	25	0	13.31	0-3	0
	25	12	13.32		0
	25	25	13.30		0
	50	0	13.31		0
256QAM	1	0	13.33	0-5	0
	1	25	13.41		0
	1	49	13.26		0
	25	0	13.30		0
	25	12	13.31		0
	25	25	13.22		0
	50	0	13.30		0

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Table 8-29
LTE Band 30 Measured P_{limit} Antenna 2b – 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	13.40	0	0
	1	25	13.45		0
	1	49	13.36		0
	25	0	13.36	0-1	0
	25	12	13.41		0
	25	25	13.29		0
	50	0	13.35		0
16QAM	1	0	13.51	0-1	0
	1	25	13.55		0
	1	49	13.51		0
	25	0	13.29	0-2	0
	25	12	13.29		0
	25	25	13.22		0
	50	0	13.25		0
64QAM	1	0	13.63	0-2	0
	1	25	13.50		0
	1	49	13.58		0
	25	0	13.40	0-3	0
	25	12	13.41		0
	25	25	13.38		0
	50	0	13.37		0
256QAM	1	0	13.46	0-5	0
	1	25	13.51		0
	1	49	13.44		0
	25	0	13.33		0
	25	12	13.34		0
	25	25	13.39		0
	50	0	13.36		0

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Table 8-30
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	11.70	0	0
	1	25	11.63		0
	1	49	11.60		0
	25	0	11.68	0-1	0
	25	12	11.72		0
	25	25	11.62		0
	50	0	11.63		0
16QAM	1	0	11.77	0-1	0
	1	25	11.78		0
	1	49	11.75		0
	25	0	11.61	0-2	0
	25	12	11.63		0
	25	25	11.52		0
	50	0	11.58		0
64QAM	1	0	11.81	0-2	0
	1	25	11.82		0
	1	49	11.80		0
	25	0	11.61	0-3	0
	25	12	11.59		0
	25	25	11.51		0
	50	0	11.59		0
256QAM	1	0	11.69	0-5	0
	1	25	11.65		0
	1	49	11.55		0
	25	0	11.56		0
	25	12	11.56		0
	25	25	11.48		0
	50	0	11.56		0

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Table 8-31
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	10.37	0	0
	1	25	10.50		0
	1	49	10.35		0
	25	0	10.46	0-1	0
	25	12	10.52		0
	25	25	10.47		0
	50	0	10.46		0
16QAM	1	0	10.52	0-1	0
	1	25	10.48		0
	1	49	10.51		0
	25	0	10.29	0-2	0
	25	12	10.30		0
	25	25	10.23		0
	50	0	10.29		0
64QAM	1	0	10.48	0-2	0
	1	25	10.50		0
	1	49	10.40		0
	25	0	10.24	0-3	0
	25	12	10.30		0
	25	25	10.21		0
	50	0	10.29		0
256QAM	1	0	10.29	0-5	0
	1	25	10.29		0
	1	49	10.10		0
	25	0	10.23		0
	25	12	10.28		0
	25	25	10.21		0
	50	0	10.27		0

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8.2.10 LTE Band 7

Table 8-32
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	12.63	12.76	12.81	0	0
	1	50	12.84	12.87	12.96		0
	1	99	12.61	12.74	12.77		0
	50	0	12.95	12.94	12.90	0-1	0
	50	25	12.91	12.91	12.97		0
	50	50	12.85	12.81	12.83		0
	100	0	12.73	12.86	12.95		0
16QAM	1	0	12.66	12.87	12.71	0-1	0
	1	50	12.69	12.89	12.90		0
	1	99	12.62	12.78	12.89		0
	50	0	12.62	12.65	12.69	0-2	0
	50	25	12.56	12.63	12.70		0
	50	50	12.57	12.58	12.71		0
	100	0	12.54	12.61	12.68		0
64QAM	1	0	12.82	12.93	12.84	0-2	0
	1	50	13.09	13.03	12.90		0
	1	99	12.77	12.99	12.97		0
	50	0	12.75	12.81	12.86	0-3	0
	50	25	12.73	12.84	12.87		0
	50	50	12.70	12.74	12.79		0
	100	0	12.70	12.81	12.85		0
256QAM	1	0	12.93	12.96	12.95	0-5	0
	1	50	12.76	13.09	12.93		0
	1	99	12.82	12.95	12.84		0
	50	0	12.75	12.75	12.74		0
	50	25	12.71	12.82	12.83		0
	50	50	12.63	12.73	12.71		0
	100	0	12.65	12.78	12.75		0

Table 8-33
LTE Band 7 Uplink Carrier Aggregation Measured P_{limit} Antenna 1b

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	12.97	12.90

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Table 8-34
LTE Band 7 Measured P_{limit} Antenna 2b – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.45	13.26	13.46	0	0
	1	50	13.38	13.42	13.52		0
	1	99	13.57	13.28	13.39		0
	50	0	13.64	13.43	13.55	0-1	0
	50	25	13.52	13.61	13.56		0
	50	50	13.54	13.52	13.40		0
	100	0	13.56	13.26	13.42		0
16QAM	1	0	13.41	13.53	13.52	0-1	0
	1	50	13.47	13.61	13.62		0
	1	99	13.31	13.55	13.46		0
	50	0	13.35	13.35	13.31	0-2	0
	50	25	13.25	13.35	13.31		0
	50	50	13.30	13.30	13.23		0
	100	0	13.27	13.32	13.30		0
64QAM	1	0	13.73	13.74	13.64	0-2	0
	1	50	14.01	13.82	13.57		0
	1	99	13.74	13.66	13.56		0
	50	0	13.60	13.61	13.52	0-3	0
	50	25	13.60	13.60	13.52		0
	50	50	13.52	13.54	13.44		0
	100	0	13.61	13.57	13.47		0
256QAM	1	0	13.75	13.68	13.65	0-5	0
	1	50	13.66	13.74	13.64		0
	1	99	13.72	13.70	13.65		0
	50	0	13.54	13.52	13.50		0
	50	25	13.55	13.57	13.53		0
	50	50	13.50	13.49	13.43		0
	100	0	13.57	13.54	13.49		0

Table 8-35
LTE Band 7 Uplink Carrier Aggregation Measured P_{limit} Antenna 2b

	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	13.63	13.54		

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Table 8-36
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	11.47	11.70	11.57	0	0
	1	50	11.79	11.71	11.65		0
	1	99	11.75	11.61	11.57		0
	50	0	11.68	11.73	11.63	0-1	0
	50	25	11.78	11.72	11.71		0
	50	50	11.77	11.71	11.66		0
	100	0	11.71	11.69	11.63		0
16QAM	1	0	11.58	11.63	11.72	0-1	0
	1	50	11.72	11.69	11.85		0
	1	99	11.81	11.77	11.74		0
	50	0	11.59	11.55	11.55	0-2	0
	50	25	11.59	11.58	11.65		0
	50	50	11.62	11.54	11.61		0
	100	0	11.56	11.56	11.53		0
64QAM	1	0	11.55	11.64	11.40	0-2	0
	1	50	11.80	11.48	11.60		0
	1	99	11.52	11.40	11.53		0
	50	0	11.52	11.49	11.39	0-3	0
	50	25	11.50	11.49	11.52		0
	50	50	11.48	11.46	11.44		0
	100	0	11.46	11.47	11.38		0
256QAM	1	0	11.42	11.58	11.64	0-5	0
	1	50	11.52	11.53	11.73		0
	1	99	11.42	11.51	11.63		0
	50	0	11.47	11.44	11.40		0
	50	25	11.54	11.49	11.53		0
	50	50	11.53	11.49	11.47		0
	100	0	11.51	11.45	11.40		0

Table 8-37
LTE Band 7 Uplink Carrier Aggregation Measured P_{limit} Antenna 3a

	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	11.56	11.77

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Table 8-38
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	10.39	10.37	10.51	0	0
	1	50	10.50	10.55	10.49		0
	1	99	10.41	10.36	10.36		0
	50	0	10.49	10.58	10.57	0-1	0
	50	25	10.46	10.60	10.56		0
	50	50	10.44	10.55	10.53		0
	100	0	10.42	10.49	10.54		0
16QAM	1	0	10.61	10.69	10.69	0-1	0
	1	50	10.87	10.77	10.73		0
	1	99	10.78	10.71	10.63		0
	50	0	10.69	10.70	10.65	0-2	0
	50	25	10.63	10.71	10.65		0
	50	50	10.69	10.62	10.62		0
	100	0	10.64	10.70	10.63		0
64QAM	1	0	10.60	10.66	10.61	0-2	0
	1	50	10.79	10.88	10.82		0
	1	99	10.69	10.76	10.62		0
	50	0	10.63	10.69	10.66	0-3	0
	50	25	10.60	10.68	10.64		0
	50	50	10.59	10.59	10.54		0
	100	0	10.56	10.69	10.61		0
256QAM	1	0	10.81	10.71	10.68	0-5	0
	1	50	10.86	10.83	10.68		0
	1	99	10.72	10.75	10.62		0
	50	0	10.57	10.65	10.56		0
	50	25	10.60	10.68	10.60		0
	50	50	10.58	10.58	10.53		0
	100	0	10.56	10.63	10.63		0

Table 8-39
LTE Band 7 Uplink Carrier Aggregation Measured P_{limit} Antenna 4

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC							SCC							Power		
				PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	10.50	10.44

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8.2.11 LTE Band 41

Table 8-40
LTE Band 41 PC3 Measured P_{limit} Antenna 1b – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.07	14.92	14.94	14.80	14.85	0	0
	1	50	15.11	15.04	15.06	14.97	14.97		0
	1	99	15.00	14.91	15.12	14.87	15.06		0
	50	0	15.08	15.04	15.11	14.96	14.99	0-1	0
	50	25	15.14	15.09	15.15	15.01	15.10		0
	50	50	15.11	15.07	15.07	14.93	15.03		0
	100	0	15.09	15.03	15.08	14.94	15.05		0
16QAM	1	0	14.90	14.84	14.82	14.81	14.65	0-1	0
	1	50	14.97	15.03	14.92	14.89	14.78		0
	1	99	14.93	14.67	14.89	14.97	14.83		0
	50	0	14.86	14.89	14.93	14.77	14.78	0-2	0
	50	25	14.84	14.91	15.02	14.80	14.86		0
	50	50	14.82	14.87	14.92	14.76	14.82		0
	100	0	14.80	14.93	14.98	14.81	14.84		0
64QAM	1	0	14.75	14.75	14.77	14.68	14.63	0-2	0
	1	50	14.78	14.78	14.93	14.75	14.72		0
	1	99	14.73	14.70	14.78	14.72	14.81		0
	50	0	14.90	14.93	14.95	14.75	14.77	0-3	0
	50	25	14.85	14.91	14.99	14.79	14.82		0
	50	50	14.84	14.83	14.93	14.73	14.79		0
	100	0	14.79	14.90	14.99	14.77	14.84		0
256QAM	1	0	14.89	14.84	14.87	14.67	14.62	0-5	0
	1	50	14.83	14.83	14.94	14.73	14.73		0
	1	99	14.85	14.86	14.85	14.72	14.77		0
	50	0	14.89	14.92	14.97	14.73	14.75		0
	50	25	14.84	14.94	15.03	14.78	14.85		0
	50	50	14.85	14.88	14.94	14.74	14.77		0
	100	0	14.83	14.94	15.01	14.82	14.82		0

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

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	15.23	15.12

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Table 8-42
LTE Band 41 PC2 Measured P_{limit} Antenna 1b – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	16.56	16.63	16.58	16.51	16.59	0
	1	50	16.65	16.71	16.62	16.57	16.70	0
	1	99	16.54	16.62	16.55	16.62	16.74	0
	50	0	16.71	16.70	16.71	16.61	16.61	0
	50	25	16.76	16.74	16.72	16.65	16.69	0
	50	50	16.67	16.61	16.67	16.57	16.61	0
	100	0	16.72	16.68	16.73	16.63	16.62	0
								0-1

Table 8-43
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{limit} Antenna 1b

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	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	16.47	16.55

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Table 8-44
LTE Band 41 PC3 Measured P_{limit} Antenna 2b – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.92	14.91	15.01	14.80	14.82	0	0
	1	50	15.02	15.01	15.03	14.86	14.94		0
	1	99	14.90	14.88	15.07	14.89	14.91		0
	50	0	15.05	15.07	15.05	14.95	14.90	0-1	0
	50	25	15.07	15.00	15.10	15.03	15.04		0
	50	50	15.08	14.99	15.02	14.93	14.93		0
	100	0	15.00	14.95	15.03	14.96	14.92		0
16QAM	1	0	15.06	14.86	14.79	14.78	14.86	0-1	0
	1	50	15.02	14.92	15.01	14.86	14.69		0
	1	99	15.02	14.85	14.78	14.88	14.77		0
	50	0	15.04	14.97	14.90	14.82	14.79	0-2	0
	50	25	15.03	14.95	14.90	14.83	14.85		0
	50	50	14.95	14.88	14.81	14.78	14.76		0
	100	0	15.00	14.95	14.87	14.81	14.82		0
64QAM	1	0	14.85	14.74	14.75	14.80	14.69	0-2	0
	1	50	14.95	14.93	14.72	14.79	14.75		0
	1	99	14.81	14.76	14.60	14.74	14.77		0
	50	0	15.06	14.93	14.83	14.76	14.81	0-3	0
	50	25	15.02	14.95	14.87	14.77	14.86		0
	50	50	14.92	14.85	14.79	14.73	14.83		0
	100	0	15.00	14.93	14.85	14.79	14.86		0
256QAM	1	0	14.96	14.94	14.75	14.70	14.71	0-5	0
	1	50	14.96	14.87	14.69	14.73	14.64		0
	1	99	14.93	14.87	14.66	14.73	14.65		0
	50	0	15.01	14.94	14.90	14.74	14.81		0
	50	25	15.03	14.96	14.89	14.79	14.85		0
	50	50	14.99	14.85	14.82	14.71	14.80		0
	100	0	15.03	14.95	14.88	14.78	14.80		0

Table 8-45
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{limit} Antenna 2b

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	14.93	14.90

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Table 8-46
LTE Band 41 PC2 Measured P_{limit} Antenna 2b – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.72	16.78	16.58	16.60	16.59	0	0
	1	50	16.81	16.80	16.60	16.59	16.69		0
	1	99	16.71	16.71	16.59	16.61	16.72		0
	50	0	16.90	16.82	16.71	16.62	16.63	0-1	0
	50	25	16.96	16.75	16.74	16.69	16.68		0
	50	50	16.85	16.74	16.66	16.60	16.61		0
	100	0	16.80	16.73	16.69	16.64	16.66		0

Table 8-47
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{limit} Antenna 2b

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	16.65	16.71

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Table 8-48
LTE Band 41 PC3 Measured P_{limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.39	13.79	13.44	13.28	13.41	0	0
	1	50	13.87	13.89	13.53	13.38	13.39		0
	1	99	13.82	13.66	13.45	13.44	13.43		0
	50	0	13.84	13.85	13.56	13.36	13.36	0-1	0
	50	25	13.90	13.91	13.59	13.53	13.44		0
	50	50	13.88	13.79	13.54	13.47	13.39		0
	100	0	13.83	13.84	13.50	13.41	13.36		0
16QAM	1	0	13.27	13.54	13.23	13.06	13.30	0-1	0
	1	50	13.81	13.69	13.04	13.17	13.22		0
	1	99	13.80	13.43	12.99	13.06	13.25		0
	50	0	13.65	13.71	13.15	13.01	13.15	0-2	0
	50	25	13.80	13.59	13.12	13.03	13.15		0
	50	50	13.80	13.58	13.06	13.13	13.18		0
	100	0	13.77	13.60	13.12	13.01	13.12		0
64QAM	1	0	13.25	13.59	13.08	13.02	13.20	0-2	0
	1	50	13.84	13.55	12.94	13.09	13.25		0
	1	99	13.82	13.39	12.92	13.12	13.12		0
	50	0	13.68	13.70	13.15	12.99	13.14	0-3	0
	50	25	13.75	13.67	13.13	13.04	13.16		0
	50	50	13.79	13.54	13.11	13.13	13.20		0
	100	0	13.70	13.64	13.08	13.04	13.13		0
256QAM	1	0	13.22	13.57	13.16	13.07	13.14	0-5	0
	1	50	13.71	13.67	12.92	13.12	13.19		0
	1	99	13.80	13.53	12.95	13.18	13.19		0
	50	0	13.62	13.68	13.16	13.02	13.17		0
	50	25	13.74	13.69	13.16	13.06	13.16		0
	50	50	13.81	13.56	13.10	13.14	13.21		0
	100	0	13.68	13.68	13.12	13.06	13.15		0

Table 8-49
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{limit} Antenna 3a

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	13.82	13.82

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Table 8-50
LTE Band 41 PC2 Measured P_{limit} Antenna 3a – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	15.02	15.41	15.02	14.92	14.89	0
	1	50	15.56	15.43	14.98	14.99	14.91	0
	1	99	15.55	15.31	14.92	15.02	14.86	0
	50	0	15.34	15.52	15.08	14.85	14.90	0
	50	25	15.59	15.48	15.06	14.91	14.95	0
	50	50	15.53	15.42	14.97	14.98	14.99	0
	100	0	15.46	15.42	15.03	14.87	14.92	0

Table 8-51
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{limit} Antenna 3a

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	15.50	15.55

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Table 8-52
LTE Band 41 PC3 Measured P_{limit} Antenna 4 – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.40	13.54	13.40	13.37	13.35	0	0
	1	50	13.57	13.62	13.57	13.53	13.47		0
	1	99	13.46	13.52	13.47	13.46	13.43		0
	50	0	13.58	13.62	13.55	13.51	13.46	0-1	0
	50	25	13.62	13.63	13.60	13.58	13.49		0
	50	50	13.59	13.62	13.50	13.51	13.39		0
	100	0	13.54	13.61	13.48	13.47	13.42		0
16QAM	1	0	13.33	13.28	13.23	13.23	13.11	0-1	0
	1	50	13.36	13.22	13.29	13.35	13.16		0
	1	99	13.33	13.28	13.18	13.23	13.01		0
	50	0	13.29	13.37	13.30	13.21	13.14	0-2	0
	50	25	13.23	13.34	13.34	13.24	13.16		0
	50	50	13.28	13.30	13.24	13.14	13.09		0
	100	0	13.23	13.35	13.30	13.22	13.13		0
64QAM	1	0	13.33	13.21	13.28	13.26	13.17	0-2	0
	1	50	13.42	13.33	13.33	13.31	13.12		0
	1	99	13.31	13.27	13.11	13.22	13.06		0
	50	0	13.30	13.38	13.29	13.17	13.15	0-3	0
	50	25	13.23	13.39	13.32	13.22	13.17		0
	50	50	13.27	13.30	13.24	13.14	13.10		0
	100	0	13.21	13.36	13.29	13.24	13.15		0
256QAM	1	0	13.31	13.17	13.28	13.34	13.11	0-5	0
	1	50	13.40	13.43	13.16	13.27	13.19		0
	1	99	13.36	13.16	13.22	13.34	13.08		0
	50	0	13.30	13.38	13.31	13.21	13.17		0
	50	25	13.22	13.36	13.31	13.21	13.16		0
	50	50	13.27	13.32	13.24	13.13	13.09		0
	100	0	13.23	13.36	13.30	13.23	13.15		0

Table 8-53
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{limit} Antenna 4

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	13.60	13.62

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Table 8-54
LTE Band 41 PC2 Measured P_{limit} Antenna 4 – 20 MHz Bandwidth

LTE Band 41 20 MHzBandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39790 (2510 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.74	14.95	14.88	15.01	14.78	0	0
	1	50	14.80	15.10	15.13	15.10	14.92		0
	1	99	14.62	14.90	14.94	15.09	14.79		0
	50	0	14.82	14.99	15.08	15.10	15.00	0-1	1
	50	25	14.86	14.94	15.14	15.12	15.05		1
	50	50	14.85	15.12	15.09	15.06	14.95		1
	100	0	14.84	15.03	14.95	15.08	14.82		1

Table 8-55
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{limit} Antenna 4

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	40185	2549.5	QPSK	50	0	LTE B41 PC2	20	39987	2529.7	QPSK	50	50	15.00	14.99

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Table 8-56
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	12.12	12.13	12.13	12.10	0	0
	1	50	12.31	12.32	12.25	12.22		0
	1	99	12.14	12.18	12.08	12.09		0
	50	0	12.26	12.31	12.22	12.21	0-1	0
	50	25	12.34	12.37	12.35	12.23		0
	50	50	12.33	12.33	12.28	12.28		0
	100	0	12.26	12.27	12.24	12.21		0
16QAM	1	0	12.29	12.46	12.30	12.13	0-1	0
	1	50	12.40	12.60	12.36	12.33		0
	1	99	12.45	12.50	12.18	12.22		0
	50	0	12.37	12.55	12.31	12.25	0-2	0
	50	25	12.48	12.66	12.28	12.30		0
	50	50	12.52	12.64	12.32	12.39		0
	100	0	12.50	12.65	12.29	12.29		0
64QAM	1	0	12.35	12.60	12.29	12.23	0-2	0
	1	50	12.42	12.68	12.35	12.31		0
	1	99	12.44	12.54	12.16	12.37		0
	50	0	12.47	12.60	12.31	12.27	0-3	0
	50	25	12.52	12.66	12.38	12.39		0
	50	50	12.54	12.64	12.33	12.41		0
	100	0	12.52	12.64	12.36	12.37		0
256QAM	1	0	12.31	12.58	12.41	12.28	0-5	0
	1	50	12.42	12.58	12.33	12.34		0
	1	99	12.51	12.67	12.29	12.49		0
	50	0	12.44	12.61	12.29	12.25		0
	50	25	12.48	12.62	12.33	12.38		0
	50	50	12.52	12.59	12.30	12.41		0
	100	0	12.46	12.60	12.34	12.38		0

Table 8-57
LTE Band 48 Uplink Carrier Aggregation Measured P_{limit} Antenna 1a

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	12.50	12.33

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Table 8-58
LTE Band 48 Measured P_{limit} Antenna 2a – 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.18	11.00	11.26	11.19	0	0
	1	50	11.35	11.12	11.32	11.29		0
	1	99	11.23	11.03	11.22	11.21		0
	50	0	11.36	11.14	11.39	11.25	0-1	0
	50	25	11.45	11.21	11.44	11.35		0
	50	50	11.35	11.19	11.34	11.27		0
	100	0	11.34	11.17	11.30	11.31		0
16QAM	1	0	11.33	11.28	11.10	11.39	0-1	0
	1	50	11.45	11.34	11.31	11.47		0
	1	99	11.35	11.25	11.20	11.48		0
	50	0	11.48	11.43	11.24	11.44	0-2	0
	50	25	11.51	11.41	11.36	11.47		0
	50	50	11.55	11.41	11.36	11.54		0
	100	0	11.52	11.41	11.34	11.45		0
64QAM	1	0	11.38	11.38	11.09	11.31	0-2	0
	1	50	11.39	11.25	11.26	11.50		0
	1	99	11.37	11.32	11.11	11.34		0
	50	0	11.47	11.44	11.25	11.45	0-3	0
	50	25	11.53	11.44	11.37	11.47		0
	50	50	11.55	11.44	11.38	11.56		0
	100	0	11.52	11.45	11.35	11.51		0
256QAM	1	0	11.32	11.37	11.24	11.45	0-5	0
	1	50	11.39	11.33	11.36	11.51		0
	1	99	11.52	11.45	11.42	11.60		0
	50	0	11.48	11.40	11.21	11.44		0
	50	25	11.54	11.41	11.34	11.51		0
	50	50	11.54	11.39	11.34	11.58		0
	100	0	11.51	11.41	11.32	11.48		0

Table 8-59
LTE Band 48 Uplink Carrier Aggregation Measured P_{limit} Antenna 2a

	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	50	0	LTE B48	20	56009	3626.9	QPSK	50	50	11.17	11.39

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Table 8-60
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	14.58	14.55	14.53	14.53	0	0
	1	50	14.81	14.65	14.62	14.70		0
	1	99	14.68	14.57	14.55	14.58		0
	50	0	14.75	14.71	14.67	14.74	0-1	0
	50	25	14.80	14.75	14.74	14.75		0
	50	50	14.70	14.73	14.72	14.73		0
	100	0	14.75	14.74	14.71	14.74		0
16QAM	1	0	14.15	14.19	14.24	14.37	0-1	0
	1	50	14.28	14.19	14.42	14.49		0
	1	99	14.29	14.27	14.20	14.35		0
	50	0	14.15	14.28	14.26	14.34	0-2	0
	50	25	14.40	14.30	14.27	14.36		0
	50	50	14.21	14.28	14.36	14.45		0
	100	0	14.19	14.29	14.25	14.35		0
64QAM	1	0	14.05	14.18	14.25	14.32	0-2	0
	1	50	14.33	14.32	14.37	14.48		0
	1	99	14.30	14.16	14.19	14.41		0
	50	0	14.15	14.25	14.28	14.35	0-3	0
	50	25	14.16	14.32	14.27	14.35		0
	50	50	14.19	14.30	14.35	14.45		0
	100	0	14.15	14.29	14.26	14.34		0
256QAM	1	0	14.17	14.18	14.22	14.36	0-5	0
	1	50	14.28	14.15	14.33	14.42		0
	1	99	14.29	14.21	14.25	14.46		0
	50	0	14.16	14.48	14.26	14.36		0
	50	25	14.19	14.30	14.28	14.34		0
	50	50	14.23	14.30	14.35	14.43		0
	100	0	14.20	14.29	14.27	14.35		0

Table 8-61
LTE Band 48 Uplink Carrier Aggregation Measured P_{limit} Antenna 3b

Combination	PCC							SCC					Power			
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	14.70	14.70

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Table 8-62
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	12.42	12.37	12.46	12.32	0	0
	1	50	12.53	12.42	12.51	12.45		0
	1	99	12.19	12.20	12.18	12.09		0
	50	0	12.37	12.32	12.27	12.20	0-1	0
	50	25	12.43	12.39	12.37	12.32		0
	50	50	12.41	12.36	12.36	12.26		0
	100	0	12.34	12.28	12.30	12.24		0
16QAM	1	0	12.21	12.26	12.19	12.14	0-1	0
	1	50	12.32	12.27	12.23	12.13		0
	1	99	12.23	12.20	12.09	12.04		0
	50	0	12.27	12.30	12.27	12.19	0-2	0
	50	25	12.27	12.32	12.28	12.17		0
	50	50	12.30	12.29	12.24	12.14		0
	100	0	12.27	12.30	12.25	12.16		0
64QAM	1	0	12.14	12.11	12.11	12.10	0-2	0
	1	50	12.32	11.99	12.14	12.06		0
	1	99	12.19	12.13	12.11	12.01		0
	50	0	12.26	12.27	12.28	12.20	0-3	0
	50	25	12.31	12.32	12.28	12.18		0
	50	50	12.27	12.29	12.26	12.18		0
	100	0	12.28	12.29	12.26	12.22		0
256QAM	1	0	12.12	11.97	11.97	11.94	0-5	0
	1	50	12.10	11.98	12.01	11.89		0
	1	99	12.18	12.04	11.94	11.88		0
	50	0	12.12	12.08	12.07	11.95		0
	50	25	12.16	12.11	12.05	11.98		0
	50	50	12.13	12.11	12.06	11.94		0
	100	0	12.16	12.09	12.06	11.95		0

Table 8-63
LTE Band 48 Uplink Carrier Aggregation Measured P_{limit} Antenna 4

	PCC							SCC						Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	12.52	12.19

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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 Plimit Conducted Powers

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

8.3.1 NR Band n71

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

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.29	0	0.0
	1	53	17.36		0.0
	1	104	17.17		0.0
	50	0	17.28	0-1	0.0
	50	28	17.41	0	0.0
	50	56	17.27	0-1	0.0
	100	0	17.32		0.0
DFT-s-OFDM 16QAM	1	1	17.47	0-1	0.0
CP-OFDM QPSK	1	1	17.20	0-1.5	0.0

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Table 8-65
NR Band n71 Measured P_{limit} Antenna 4 – 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.94	0	0.0
	1	53	19.18		0.0
	1	104	19.03		0.0
	50	0	19.04	0-1	0.0
	50	28	19.14	0	0.0
	50	56	19.02	0-1	0.0
	100	0	19.01		0.0
DFT-s-OFDM 16QAM	1	1	18.81	0-1	0.0
CP-OFDM QPSK	1	1	18.94	0-1.5	0.0

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8.3.2 NR Band n12

Table 8-66
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	17.13	0	0.0
	1	40	17.01		0.0
	1	77	16.81		0.0
	36	0	16.96	0-1	0.0
	36	22	16.88	0	0.0
	36	43	16.77	0-1	0.0
	75	0	16.86		0.0
DFT-s-OFDM 16QAM	1	1	17.00	0-1	0.0
CP-OFDM QPSK	1	1	17.04	0-1.5	0.0

Table 8-67
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	18.68	0	0.0
	1	40	18.73		0.0
	1	77	18.77		0.0
	36	0	18.75	0-1	0.0
	36	22	18.69	0	0.0
	36	43	18.65	0-1	0.0
	75	0	18.67		0.0
DFT-s-OFDM 16QAM	1	1	19.08	0-1	0.0
CP-OFDM QPSK	1	1	18.81	0-1.5	0.0

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8.3.3 NR Band n14

Table 8-68
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	16.29	0	0.0
	1	26	16.12		0.0
	1	50	16.22		0.0
	25	0	16.12	0-1	0.0
	25	14	16.15	0	0.0
	25	27	16.27	0-1	0.0
	50	0	16.12		0.0
DFT-s-OFDM 16QAM	1	1	16.26	0-1	0.0
CP-OFDM QPSK	1	1	16.27	0-1.5	0.0

Table 8-69
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	19.00	0	0.0
	1	26	19.27		0.0
	1	50	19.04		0.0
	25	0	18.97	0-1	0.0
	25	14	18.94	0	0.0
	25	27	18.91	0-1	0.0
	50	0	18.87		0.0
DFT-s-OFDM 16QAM	1	1	18.94	0-1	0.0
CP-OFDM QPSK	1	1	19.23	0-1.5	0.0

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8.3.4 NR Band n26

Table 8-70
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	16.66	0	0.0
	1	53	16.74		0.0
	1	104	16.61		0.0
	50	0	16.73	0-1	0.0
	50	28	16.60	0	0.0
	50	56	16.53	0-1	0.0
	100	0	16.60		0.0
DFT-s-OFDM 16QAM	1	1	16.75	0-1	0.0
CP-OFDM QPSK	1	1	16.66	0-1.5	0.0

Table 8-71
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	18.08	0	0.0
	1	53	18.15		0.0
	1	104	18.02		0.0
	50	0	18.08	0-1	0.0
	50	28	18.05	0	0.0
	50	56	17.94	0-1	0.0
	100	0	18.02		0.0
DFT-s-OFDM 16QAM	1	1	18.04	0-1	0.0
CP-OFDM QPSK	1	1	18.12	0-1.5	0.0

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8.3.5 NR Band 5

Table 8-72
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	16.11	0	0.0
	1	53	15.89		0.0
	1	104	15.95		0.0
	50	0	16.06	0-1	0.0
	50	28	16.03	0	0.0
	50	56	15.96	0-1	0.0
	100	0	16.02		0.0
DFT-s-OFDM 16QAM	1	1	16.17	0-1	0.0
CP-OFDM QPSK	1	1	16.17	0-1.5	0.0

Table 8-73
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	18.30	0	0.0
	1	53	18.20		0.0
	1	104	18.25		0.0
	50	0	18.24	0-1	0.0
	50	28	18.17	0	0.0
	50	56	18.12	0-1	0.0
	100	0	18.18		0.0
DFT-s-OFDM 16QAM	1	1	18.41	0-1	0.0
CP-OFDM QPSK	1	1	18.22	0-1.5	0.0

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8.3.6 NR Band n70

Table 8-74
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	11.43	0	0.0
	1	40	11.30		0.0
	1	77	11.34		0.0
	36	0	11.39	0-1	0.0
	36	22	11.33	0	0.0
	36	43	11.30	0-1	0.0
	75	0	11.36		0.0
DFT-s-OFDM 16QAM	1	1	11.28	0-1	0.0
CP-OFDM QPSK	1	1	11.46	0-1.5	0.0

Table 8-75
NR Band n70 Measured P_{limit} Antenna 2b – 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.84	0	0.0
	1	40	12.78		0.0
	1	77	12.80		0.0
	36	0	12.77	0-1	0.0
	36	22	12.74	0	0.0
	36	43	12.72	0-1	0.0
	75	0	12.69		0.0
DFT-s-OFDM 16QAM	1	1	12.89	0-1	0.0
CP-OFDM QPSK	1	1	12.79	0-1.5	0.0

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Table 8-76
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	12.17	0	0.0
	1	40	12.04		0.0
	1	77	12.00		0.0
	36	0	12.05	0-1	0.0
	36	22	12.04	0	0.0
	36	43	11.99	0-1	0.0
	75	0	12.01		0.0
DFT-s-OFDM 16QAM	1	1	12.12	0-1	0.0
CP-OFDM QPSK	1	1	12.17	0-1.5	0.0

Table 8-77
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	13.07	0	0.0
	1	40	12.99		0.0
	1	77	13.05		0.0
	36	0	13.00	0-1	0.0
	36	22	12.98	0	0.0
	36	43	12.99	0-1	0.0
	75	0	12.96		0.0
DFT-s-OFDM 16QAM	1	1	12.99	0-1	0.0
CP-OFDM QPSK	1	1	13.04	0-1.5	0.0

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8.3.7 NR Band n66

Table 8-78
NR Band n66 Measured P_{limit} Antenna 1b – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.26	0	0.0
	1	108	11.45		0.0
	1	214	11.27		0.0
	108	0	11.31	0-1	0.0
	108	54	11.44	0	0.0
	108	108	11.29	0-1	0.0
	216	0	11.23		0.0
DFT-s-OFDM 16QAM	1	1	11.35	0-1	0.0
CP-OFDM QPSK	1	1	11.26	0-1.5	0.0

Table 8-79
NR Band n66 Measured P_{limit} Antenna 2b – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.81	0	0.0
	1	108	12.75		0.0
	1	214	12.67		0.0
	108	0	12.78	0-1	0.0
	108	54	12.80	0	0.0
	108	108	12.79	0-1	0.0
	216	0	12.70		0.0
DFT-s-OFDM 16QAM	1	1	12.82	0-1	0.0
CP-OFDM QPSK	1	1	12.71	0-1.5	0.0

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Table 8-80
NR Band n66 Measured P_{limit} Antenna 3a – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.21	0	0.0
	1	108	12.26		0.0
	1	214	12.36		0.0
	108	0	12.34	0-1	0.0
	108	54	12.22	0	0.0
	108	108	12.28	0-1	0.0
	216	0	12.29		0.0
DFT-s-OFDM 16QAM	1	1	12.06	0-1	0.0
CP-OFDM QPSK	1	1	12.44	0-1.5	0.0

Table 8-81
NR Band n66 Measured P_{limit} Antenna 4 – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.86	0	0.0
	1	108	12.89		0.0
	1	214	12.79		0.0
	108	0	12.98	0-1	0.0
	108	54	12.92	0	0.0
	108	108	12.99	0-1	0.0
	216	0	12.88		0.0
DFT-s-OFDM 16QAM	1	1	12.83	0-1	0.0
CP-OFDM QPSK	1	1	12.82	0-1.5	0.0

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8.3.8 NR Band n25

Table 8-82
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	11.67	0	0.0
	1	108	11.64		0.0
	1	214	11.75		0.0
	108	0	11.77	0-1	0.0
	108	54	11.68	0	0.0
	108	108	11.73		0.0
	216	0	11.67		0.0
DFT-s-OFDM 16QAM	1	1	11.79	0-1	0.0
CP-OFDM QPSK	1	1	11.72	0-1.5	0.0

Table 8-83
NR Band n25 Measured P_{limit} Antenna 2b – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.55	0	0.0
	1	108	12.60		0.0
	1	214	12.58		0.0
	108	0	12.63	0-1	0.0
	108	54	12.56	0	0.0
	108	108	12.56		0.0
	216	0	12.53		0.0
DFT-s-OFDM 16QAM	1	1	12.71	0-1	0.0
CP-OFDM QPSK	1	1	12.55	0-1.5	0.0

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Table 8-84
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	11.84	0	0.0
	1	108	11.94		0.0
	1	214	11.76		0.0
	108	0	11.91	0-1	0.0
	108	54	11.88	0	0.0
	108	108	11.90	0-1	0.0
	216	0	11.87		0.0
DFT-s-OFDM 16QAM	1	1	12.01	0-1	0.0
CP-OFDM QPSK	1	1	11.86	0-1.5	0.0

Table 8-85
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	13.43	0	0.0
	1	108	13.48		0.0
	1	214	13.56		0.0
	108	0	13.51	0-1	0.0
	108	54	13.61	0	0.0
	108	108	13.45	0-1	0.0
	216	0	13.47		0.0
DFT-s-OFDM 16QAM	1	1	13.72	0-1	0.0
CP-OFDM QPSK	1	1	13.41	0-1.5	0.0

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8.3.9 NR Band n30

Table 8-86
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	13.41	0	0.0
	1	26	13.39		0.0
	1	50	13.37		0.0
	25	0	13.43	0-1	0.0
	25	14	13.38	0	0.0
	25	27	13.31	0-1	0.0
	50	0	13.36		0.0
DFT-s-OFDM 16QAM	1	1	13.51	0-1	0.0
CP-OFDM QPSK	1	1	13.49	0-1.5	0.0

Table 8-87
NR Band n30 Measured P_{limit} Antenna 2b – 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.47	0	0.0
	1	26	13.41		0.0
	1	50	13.37		0.0
	25	0	13.32	0-1	0.0
	25	14	13.36	0	0.0
	25	27	13.35	0-1	0.0
	50	0	13.31		0.0
DFT-s-OFDM 16QAM	1	1	13.47	0-1	0.0
CP-OFDM QPSK	1	1	13.41	0-1.5	0.0

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Table 8-88
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	11.52	0	0.0
	1	26	11.54		0.0
	1	50	11.55		0.0
	25	0	11.44	0-1	0.0
	25	14	11.47	0	0.0
	25	27	11.45	0-1	0.0
	50	0	11.46		0.0
DFT-s-OFDM 16QAM	1	1	11.62	0-1	0.0
CP-OFDM QPSK	1	1	11.47	0-1.5	0.0

Table 8-89
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	10.55	0	0.0
	1	26	10.58		0.0
	1	50	10.51		0.0
	25	0	10.42	0-1	0.0
	25	14	10.43	0	0.0
	25	27	10.40	0-1	0.0
	50	0	10.39		0.0
DFT-s-OFDM 16QAM	1	1	10.36	0-1	0.0
CP-OFDM QPSK	1	1	10.40	0-1.5	0.0

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8.3.10 NR Band n7

Table 8-90
NR Band n7 Measured P_{limit} Antenna 1b – 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.51	0	0.0
	1	108	13.40		0.0
	1	214	13.45		0.0
	108	0	13.49	0-1	0.0
	108	54	13.41	0	0.0
	108	108	13.43	0-1	0.0
	216	0	13.46		0.0
DFT-s-OFDM 16QAM	1	1	13.69	0-1	0.0
CP-OFDM QPSK	1	1	13.61	0-1.5	0.0

Table 8-91
NR Band n7 Measured P_{limit} Antenna 2b – 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.51	0	0.0
	1	108	13.44		0.0
	1	214	13.45		0.0
	108	0	13.48	0-1	0.0
	108	54	13.38	0	0.0
	108	108	13.37	0-1	0.0
	216	0	13.46		0.0
DFT-s-OFDM 16QAM	1	1	13.43	0-1	0.0
CP-OFDM QPSK	1	1	13.61	0-1.5	0.0

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Table 8-92
NR Band n7 Measured P_{limit} Antenna 3a – 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.27	0	0.0
	1	108	11.28		0.0
	1	214	11.33		0.0
	108	0	11.35	0-1	0.0
	108	54	11.25	0	0.0
	108	108	11.22	0-1	0.0
	216	0	11.32		0.0
DFT-s-OFDM 16QAM	1	1	11.37	0-1	0.0
CP-OFDM QPSK	1	1	11.43	0-1.5	0.0

Table 8-93
NR Band n7 Measured P_{limit} Antenna 4 – 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.67	0	0.0
	1	108	10.62		0.0
	1	214	10.77		0.0
	108	0	10.63	0-1	0.0
	108	54	10.55	0	0.0
	108	108	10.60	0-1	0.0
	216	0	10.59		0.0
DFT-s-OFDM 16QAM	1	1	10.60	0-1	0.0
CP-OFDM QPSK	1	1	10.64	0-1.5	0.0

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8.3.11 NR Band n41 PC2

Table 8-94
NR Band n41 PC2 Measured P_{limit} Antenna 1b – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.66	0	0.0
	1	137	12.86		0.0
	1	271	12.64		0.0
	135	0	12.76	0-1	0.0
	135	69	12.78	0	0.0
	135	138	12.70	0-1	0.0
	270	0	12.74		0.0
DFT-s-OFDM 16QAM	1	1	12.70	0-1	0.0
CP-OFDM QPSK	1	1	12.69	0-1.5	0.0

Table 8-95
NR Band n41 PC2 Measured P_{limit} Antenna 2b – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.95	0	0.0
	1	137	12.92		0.0
	1	271	12.88		0.0
	135	0	12.93	0-1	0.0
	135	69	12.81	0	0.0
	135	138	12.72	0-1	0.0
	270	0	12.80		0.0
DFT-s-OFDM 16QAM	1	1	13.01	0-1	0.0
CP-OFDM QPSK	1	1	12.91	0-1.5	0.0

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Table 8-96
NR Band n41 PC2 Measured P_{limit} Antenna 3a – 100 MHz Bandwidth
NR Band n41
100 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.82	0	0.0
	1	137	11.76		0.0
	1	271	11.67		0.0
	135	0	11.73	0-1	0.0
	135	69	11.68	0	0.0
	135	138	11.62	0-1	0.0
	270	0	11.62		0.0
DFT-s-OFDM 16QAM	1	1	11.83	0-1	0.0
CP-OFDM QPSK	1	1	11.72	0-1.5	0.0

Table 8-97
NR Band n41 PC2 Measured P_{limit} Antenna 4 – 100 MHz Bandwidth
NR Band n41
100 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.28	0	0.0
	1	137	11.38		0.0
	1	271	11.26		0.0
	135	0	11.42	0-1	0.0
	135	69	11.32	0	0.0
	135	138	11.27	0-1	0.0
	270	0	11.35		0.0
DFT-s-OFDM 16QAM	1	1	11.15	0-1	0.0
CP-OFDM QPSK	1	1	11.21	0-1.5	0.0

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8.3.12 NR Band n48 PC2

Table 8-98
NR Band n48 PC2 Measured P_{limit} Antenna 1a – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	10.26	10.37	10.33	0	0.0
	1	53	10.34	10.31	10.25		0.0
	1	104	10.39	10.27	10.46		0.0
	50	0	10.52	10.32	10.34	0-1	0.0
	50	28	10.21	10.23	10.53	0	0.0
	50	56	10.24	10.21	10.27	0-1	0.0
	100	0	10.32	10.28	10.35		0.0
DFT-s-OFDM 16QAM	1	1	10.27	10.49	10.31	0-1	0.0
CP-OFDM QPSK	1	1	10.41	10.41	10.45	0-1.5	0.0

Table 8-99
NR Band n48 PC2 Measured P_{limit} Antenna 2a – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	8.92	9.22	9.17	0	0.0
	1	53	9.14	9.17	9.22		0.0
	1	104	9.04	9.28	9.16		0.0
	50	0	9.03	9.29	9.15	0-1	0.0
	50	28	9.10	9.26	9.13	0	0.0
	50	56	9.17	9.21	9.28	0-1	0.0
	100	0	8.98	9.26	9.21		0.0
DFT-s-OFDM 16QAM	1	1	9.20	9.26	9.21	0-1	0.0
CP-OFDM QPSK	1	1	9.17	9.24	9.23	0-1.5	0.0

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Table 8-100
NR Band n48 PC2 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)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	12.33	12.15	12.22	0	0.0
	1	53	12.22	12.21	12.28		0.0
	1	104	12.27	12.05	12.35		0.0
	50	0	12.20	12.05	12.18	0-1	0.0
	50	28	12.16	12.11	12.25	0	0.0
	50	56	12.13	12.15	12.15	0-1	0.0
	100	0	12.16	12.05	12.18		0.0
DFT-s-OFDM 16QAM	1	1	12.03	11.31	12.25	0-1	0.0
CP-OFDM QPSK	1	1	12.25	12.15	12.31	0-1.5	0.0

Table 8-101
NR Band n48 PC2 Measured P_{limit} Antenna 4 – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	10.31	10.44	10.22	0	0.0
	1	53	10.41	10.22	10.16		0.0
	1	104	10.50	10.15	10.15		0.0
	50	0	10.35	10.34	10.07	0-1	0.0
	50	28	10.40	10.24	10.02	0	0.0
	50	56	10.34	10.14	10.00	0-1	0.0
	100	0	10.36	10.20	9.95		0.0
DFT-s-OFDM 16QAM	1	1	10.18	10.30	10.40	0-1	0.0
CP-OFDM QPSK	1	1	10.46	10.35	10.30	0-1.5	0.0

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8.3.13 NR Band n77 DoD PC2

Table 8-102
NR Band n77 DoD Measured P_{limit} Antenna 1a – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.20	0	0.0
	1	137	10.02		0.0
	1	271	10.11		0.0
	135	0	10.12	0-1	0.0
	135	69	10.01	0	0.0
	135	138	9.98	0-1	0.0
	270	0	10.08		0.0
DFT-s-OFDM 16QAM	1	1	10.25	0-1	0.0
CP-OFDM QPSK	1	1	10.19	0-1.5	0.0

Table 8-103
NR Band n77 DoD Measured P_{limit} Antenna 2a – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.25	0	0.0
	1	137	9.27		0.0
	1	271	9.38		0.0
	135	0	9.21	0-1	0.0
	135	69	9.11	0	0.0
	135	138	9.20	0-1	0.0
	270	0	9.17		0.0
DFT-s-OFDM 16QAM	1	1	9.26	0-1	0.0
CP-OFDM QPSK	1	1	9.37	0-1.5	0.0

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Table 8-104
NR Band n77 DoD Measured P_{limit} Antenna 3b – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.91	0	0.0
	1	137	12.09		0.0
	1	271	12.11		0.0
	135	0	11.81	0-1	0.0
	135	69	11.90	0	0.0
	135	138	11.93	0-1	0.0
	270	0	11.92		0.0
DFT-s-OFDM 16QAM	1	1	11.61	0-1	0.0
CP-OFDM QPSK	1	1	11.81	0-1.5	0.0

Table 8-105
NR Band n77 DoD Measured P_{limit} Antenna 4 – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.79	0	0.0
	1	137	10.05		0.0
	1	271	10.15		0.0
	135	0	9.90	0-1	0.0
	135	69	9.87	0	0.0
	135	138	9.95	0-1	0.0
	270	0	9.88		0.0
DFT-s-OFDM 16QAM	1	1	10.10	0-1	0.0
CP-OFDM QPSK	1	1	9.89	0-1.5	0.0

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8.3.14 NR Band n77 C PC2

Table 8-106
NR Band n77 C PC2 Measured P_{limit} Antenna 1a – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.89	10.20	0	0.0
	1	137	10.15	10.16		0.0
	1	271	9.90	9.88		0.0
	135	0	10.15	10.16	0-1	0.0
	135	69	10.09	10.13	0	0.0
	135	138	9.86	10.08	0-1	0.0
	270	0	10.01	10.04		0.0
DFT-s-OFDM 16QAM	1	1	10.07	10.05	0-1	0.0
CP-OFDM QPSK	1	1	9.95	9.96	0-1.5	0.0

Table 8-107
NR Band n77 C PC2 Measured P_{limit} Antenna 2a – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.23	9.13	0	0.0
	1	137	9.29	9.10		0.0
	1	271	9.16	8.97		0.0
	135	0	9.23	9.21	0-1	0.0
	135	69	9.18	9.08	0	0.0
	135	138	9.10	8.94	0-1	0.0
	270	0	9.13	8.98		0.0
DFT-s-OFDM 16QAM	1	1	8.97	9.12	0-1	0.0
CP-OFDM QPSK	1	1	8.99	9.05	0-1.5	0.0

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Table 8-108
NR Band n77 C PC2 Measured P_{limit} Antenna 3b – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	11.60	11.55	0	0.0
	1	137	11.86	11.67		0.0
	1	271	11.78	11.53		0.0
	135	0	11.67	11.43	0-1	0.0
	135	69	11.75	11.47	0	0.0
	135	138	11.58	11.41	0-1	0.0
	270	0	11.62	11.35		0.0
DFT-s-OFDM 16QAM	1	1	11.50	11.55	0-1	0.0
CP-OFDM QPSK	1	1	11.80	11.62	0-1.5	0.0

Table 8-109
NR Band n77 C PC2 Measured P_{limit} Antenna 4 – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.78	9.50	0	0.0
	1	137	10.04	9.44		0.0
	1	271	9.71	9.45		0.0
	135	0	10.01	9.44	0-1	0.0
	135	69	9.97	9.39	0	0.0
	135	138	9.75	9.39	0-1	0.0
	270	0	9.86	9.42		0.0
DFT-s-OFDM 16QAM	1	1	9.61	9.64	0-1	0.0
CP-OFDM QPSK	1	1	9.70	9.55	0-1.5	0.0

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

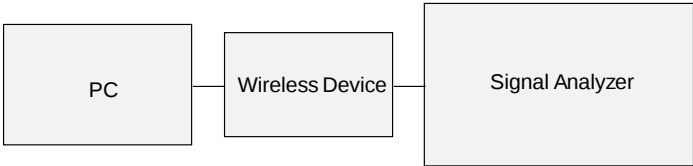


Figure 8-3
Power Measurement Setup

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8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

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

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	9.82
2437	6	9.76
2462	11	10.00
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	9.95
2437	6	9.86
2462	11	9.92
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	9.96
2437	6	9.87
2462	11	9.93
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	9.57
2437	6	9.67
2462	11	9.67

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Table 8-111
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.10
2437	6	10.05
2462	11	10.16
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.15
2437	6	10.18
2462	11	10.31
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.05
2437	6	10.03
2462	11	10.05
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	9.85
2437	6	10.46
2462	11	10.05

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Table 8-112
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	11.25
2437	6	11.03
2462	11	11.26
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	11.12
2437	6	11.09
2462	11	11.35
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	11.12
2437	6	11.09
2462	11	11.35
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.87
2437	6	10.62
2462	11	11.04

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Table 8-113
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	11.10
2437	6	10.90
2462	11	11.28
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	11.01
2437	6	11.24
2462	11	10.99
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	11.01
2437	6	11.23
2462	11	11.00
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	10.96
2437	6	10.99
2462	11	11.33

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8.5 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-114
2.4 GHz WLAN 3.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.68
2437	6	6.89
2462	11	7.26
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.72
2437	6	7.07
2462	11	7.08
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.68
2437	6	7.08
2462	11	6.96
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.59
2437	6	6.94
2462	11	6.93

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Table 8-115
2.4 GHz WLAN 3.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.75
2437	6	7.01
2462	11	7.31
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.82
2437	6	7.25
2462	11	7.24
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.84
2437	6	7.23
2462	11	7.25
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	6.65
2437	6	7.10
2462	11	7.19

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Table 8-116
2.4 GHz WLAN 3.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.72
2437	6	7.57
2462	11	8.08
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.73
2437	6	7.76
2462	11	7.86
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.69
2437	6	7.65
2462	11	7.77
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.30
2437	6	7.66
2462	11	7.56

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Table 8-117
2.4 GHz WLAN 3.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.65
2437	6	7.42
2462	11	8.00
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.75
2437	6	7.61
2462	11	7.93
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.61
2437	6	7.56
2462	11	7.88
2.4GHz WIFI (20MHz 802.11ax SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	7.32
2437	6	7.51
2462	11	7.82

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8.6 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-118
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.29
UNII-2A	5290	58	10.70
UNII-2C	5530	106	9.94
	5610	122	10.06
	5690	138	10.00
UNII-3	5775	155	10.29
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.18
UNII-2A	5290	58	10.61
UNII-2C	5530	106	9.70
	5610	122	9.73
	5690	138	9.78
UNII-3	5775	155	10.15

Table 8-119
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.30
UNII-2A	5290	58	10.63
UNII-2C	5530	106	10.04
	5610	122	9.94
	5690	138	10.02
UNII-3	5775	155	10.23
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.90
UNII-2A	5290	58	10.42
UNII-2C	5530	106	9.90
	5610	122	9.79
	5690	138	9.77
UNII-3	5775	155	10.05

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Table 8-120
5 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.47
UNII-2A	5290	58	7.70
UNII-2C	5530	106	7.22
	5610	122	7.24
	5690	138	7.16
UNII-3	5775	155	8.66
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.27
UNII-2A	5290	58	7.95
UNII-2C	5530	106	7.01
	5610	122	7.03
	5690	138	7.26
UNII-3	5775	155	8.33

Table 8-121
5 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.50
UNII-2A	5290	58	7.61
UNII-2C	5530	106	7.25
	5610	122	7.15
	5690	138	7.11
UNII-3	5775	155	8.56
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.41
UNII-2A	5290	58	7.55
UNII-2C	5530	106	7.33
	5610	122	7.23
	5690	138	7.00
UNII-3	5775	155	8.25

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Table 8-122
5 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 1

5GHz WIFI (40MHz 802.11n SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.05
	5230	46	14.09
UNII-2A	5270	54	14.93
	5310	62	13.66
5GHz WIFI (40MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.05
	5230	46	14.03
UNII-2A	5270	54	14.95
	5310	62	13.69
5GHz WIFI (40MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.05
	5230	46	14.19
UNII-2A	5270	54	15.08
	5310	62	13.38
5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.12
	5610	122	13.17
	5690	138	12.98
UNII-3	5775	155	14.04
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.97
	5610	122	12.93
	5690	138	12.85
UNII-3	5775	155	13.79

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Table 8-123
5 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 2

5GHz WIFI (40MHz 802.11n SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.99
	5230	46	14.02
UNII-2A	5270	54	14.94
	5310	62	13.78
5GHz WIFI (40MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.03
	5230	46	14.14
UNII-2A	5270	54	15.15
	5310	62	13.73
5GHz WIFI (40MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.10
	5230	46	14.14
UNII-2A	5270	54	14.99
	5310	62	13.59
5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.92
	5610	122	13.18
	5690	138	12.98
UNII-3	5775	155	14.00
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.02
	5610	122	13.06
	5690	138	13.03
UNII-3	5775	155	13.91

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8.7 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-124
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	4.66
UNII-2A	5290	58	4.19
UNII-2C	5530	106	3.57
	5610	122	3.65
	5690	138	3.48
UNII-3	5775	155	3.55
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	4.75
UNII-2A	5290	58	4.21
UNII-2C	5530	106	3.54
	5610	122	3.44
	5690	138	3.36
UNII-3	5775	155	3.47

Table 8-125
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	4.70
UNII-2A	5290	58	4.29
UNII-2C	5530	106	3.59
	5610	122	3.66
	5690	138	3.52
UNII-3	5775	155	3.47
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	4.77
UNII-2A	5290	58	4.30
UNII-2C	5530	106	3.53
	5610	122	3.49
	5690	138	3.55
UNII-3	5775	155	3.40

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Table 8-126
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	3.26
UNII-2A	5290	58	2.61
UNII-2C	5530	106	1.40
	5610	122	1.40
	5690	138	1.60
UNII-3	5775	155	1.00
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	3.13
UNII-2A	5290	58	2.37
UNII-2C	5530	106	1.31
	5610	122	1.21
	5690	138	1.38
UNII-3	5775	155	1.04

Table 8-127
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	2.99
UNII-2A	5290	58	2.13
UNII-2C	5530	106	1.19
	5610	122	1.03
	5690	138	1.18
UNII-3	5775	155	1.08
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	3.24
UNII-2A	5290	58	2.60
UNII-2C	5530	106	1.26
	5610	122	1.19
	5690	138	1.25
UNII-3	5775	155	1.20

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Table 8-128
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 1

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.49
UNII-2A	5290	58	8.52
UNII-2C	5530	106	6.66
	5610	122	7.01
	5690	138	6.86
UNII-3	5775	155	7.80
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.70
UNII-2A	5290	58	8.77
UNII-2C	5530	106	6.99
	5610	122	7.01
	5690	138	6.96
UNII-3	5775	155	7.72

Table 8-129
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 2

5GHz WIFI (80MHz 802.11ac SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.40
UNII-2A	5290	58	8.43
UNII-2C	5530	106	7.00
	5610	122	6.82
	5690	138	6.88
UNII-3	5775	155	7.81
5GHz WIFI (80MHz 802.11ax SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.84
UNII-2A	5290	58	8.88
UNII-2C	5530	106	7.10
	5610	122	6.79
	5690	138	6.81
UNII-3	5775	155	7.56

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8.8 WLAN Power Reduction Verification Summary

Table 8-130
WLAN Power Reduction Verification

Antenna	Mode/Band	Channel	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
						[dBm]	[dBm]	
Ant 3A	2.4 GHz WLAN	6	Main Band 3B ON	12.25	8.75	10.05	7.84	PASS
	2.4 GHz WLAN	6	Main Band 3A ON	12.25	8.75	10.05	7.75	PASS
	2.4 GHz WLAN	6	ULCA ON	12.25	8.75	10.05	7.77	PASS
Ant 1A	2.4 GHz WLAN	6	Main Band 1A ON	11.25	7.75	10.24	6.60	PASS
	2.4 GHz WLAN	6	Main Band 1B ON	11.25	7.75	10.24	6.47	PASS
	2.4 GHz WLAN	6	Main Band 2B ON	11.25	7.75	10.24	6.55	PASS
	2.4 GHz WLAN	6	ULCA ON	11.25	7.75	10.24	6.50	PASS
Ant 3C	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 4 ON	15.75	9.75	14.05	8.25	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 3B ON	15.75	9.75	14.05	8.21	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 3A ON	15.75	9.75	14.05	8.19	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	ULCA ON	15.75	9.75	14.05	8.15	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 2b ON	11.75	5.75	10.00	4.02	PASS
Ant 1B	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 1a ON	11.75	5.75	10.00	4.00	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 1B ON	11.75	5.75	10.00	4.01	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 2a + BT 1a ON	11.75	5.75	10.00	4.05	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	ULCA ON	11.75	5.75	10.00	3.97	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 4 ON	10.25	4.25	8.42	2.70	PASS
Ant 3A	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 3B ON	10.25	4.25	8.42	2.80	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	Main Band Ant 3A ON	10.25	4.25	8.42	2.81	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	ULCA ON	10.25	4.25	8.42	2.61	PASS
	5 GHz WLAN, 802.11a, 20 MHz BW	48	ULCA ON	10.25	4.25	8.42	2.61	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

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

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.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structure to meet the same specifications and functions.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2.

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8.10 Bluetooth Maximum Conducted Powers

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.08	12.823
2441	GFSK	1.0	39	10.75	11.885
2480	GFSK	1.0	78	10.76	11.912

Table 8-132
Bluetooth Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.06	12.764
2441	GFSK	1.0	39	10.98	12.531
2480	GFSK	1.0	78	10.95	12.445

Table 8-133
Bluetooth Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.89	19.454
2441	GFSK	1.0	39	12.67	18.493
2480	GFSK	1.0	78	12.60	18.197

Table 8-134
Bluetooth Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.84	19.231
2441	GFSK	1.0	39	12.62	18.281
2480	GFSK	1.0	78	12.59	18.155

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8.11 Bluetooth Reduced Conducted Powers

Table 8-135

Bluetooth 3.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.57	5.715
2441	GFSK	1.0	39	7.83	6.067
2480	GFSK	1.0	78	7.32	5.395

Table 8-136

Bluetooth 3.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.56	5.702
2441	GFSK	1.0	39	7.81	6.039
2480	GFSK	1.0	78	7.19	5.236

Table 8-137

Bluetooth 5.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.43	3.491
2441	GFSK	1.0	39	5.59	3.622
2480	GFSK	1.0	78	5.03	3.184

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Table 8-138
Bluetooth 5.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.64	3.664
2441	GFSK	1.0	39	5.91	3.899
2480	GFSK	1.0	78	5.41	3.475

Table 8-139
Bluetooth 7 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	3.87	2.438
2441	GFSK	1.0	39	4.10	2.570
2480	GFSK	1.0	78	3.61	2.296

Table 8-140
Bluetooth 7 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.52	2.831
2441	GFSK	1.0	39	4.39	2.748
2480	GFSK	1.0	78	3.61	2.296

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Table 8-141
Bluetooth 3.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.22	8.356
2441	GFSK	1.0	39	9.14	8.204
2480	GFSK	1.0	78	8.71	7.430

Table 8-142
Bluetooth 3.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.12	8.166
2441	GFSK	1.0	39	9.04	8.017
2480	GFSK	1.0	78	8.68	7.379

Table 8-143
Bluetooth 5.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.68	4.656
2441	GFSK	1.0	39	6.65	4.624
2480	GFSK	1.0	78	6.20	4.169

Table 8-144
Bluetooth 5.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.55	4.519
2441	GFSK	1.0	39	6.34	4.305
2480	GFSK	1.0	78	6.37	4.335

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Table 8-145
Bluetooth 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.35	3.428
2441	GFSK	1.0	39	5.12	3.251
2480	GFSK	1.0	78	4.93	3.112

Table 8-146
Bluetooth 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.31	3.396
2441	GFSK	1.0	39	4.78	3.006
2480	GFSK	1.0	78	4.87	3.069

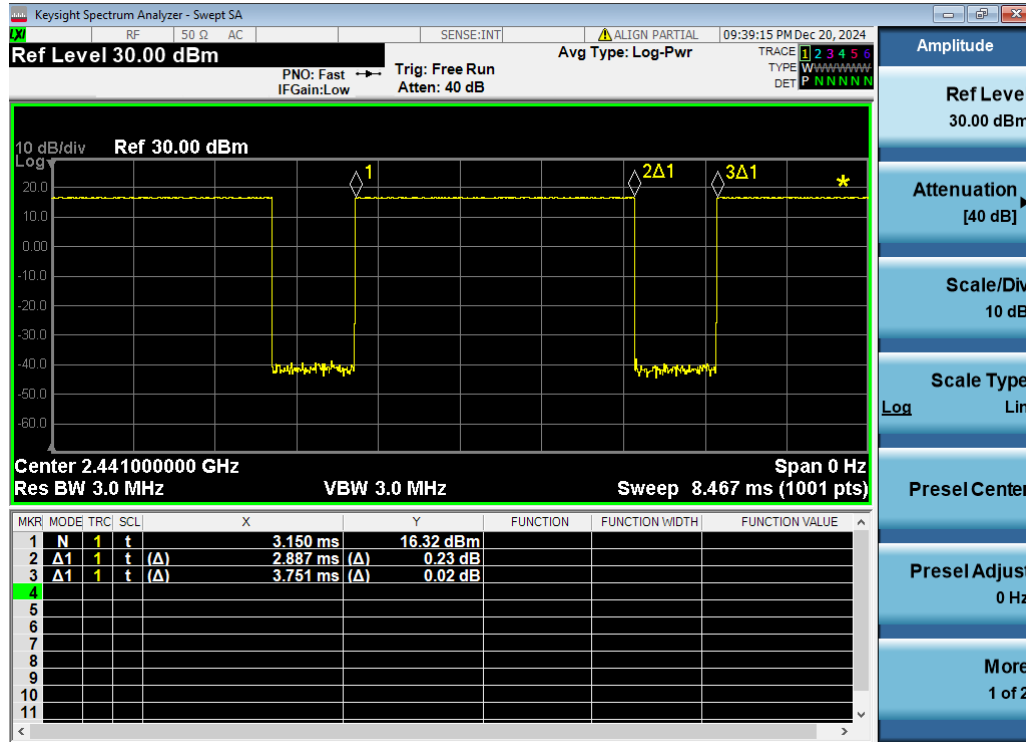
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8.12 Bluetooth Duty Cycle Plots

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



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

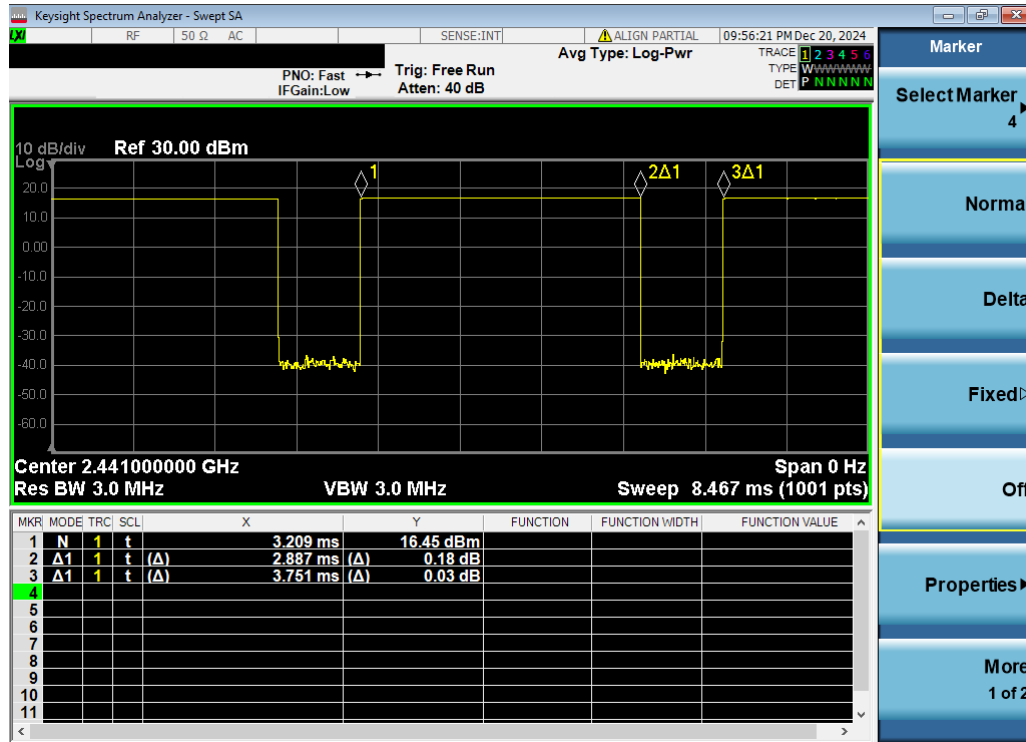
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.887 \text{ ms}}{3.751 \text{ ms}} * 100\% = 76.97\%$$

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



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

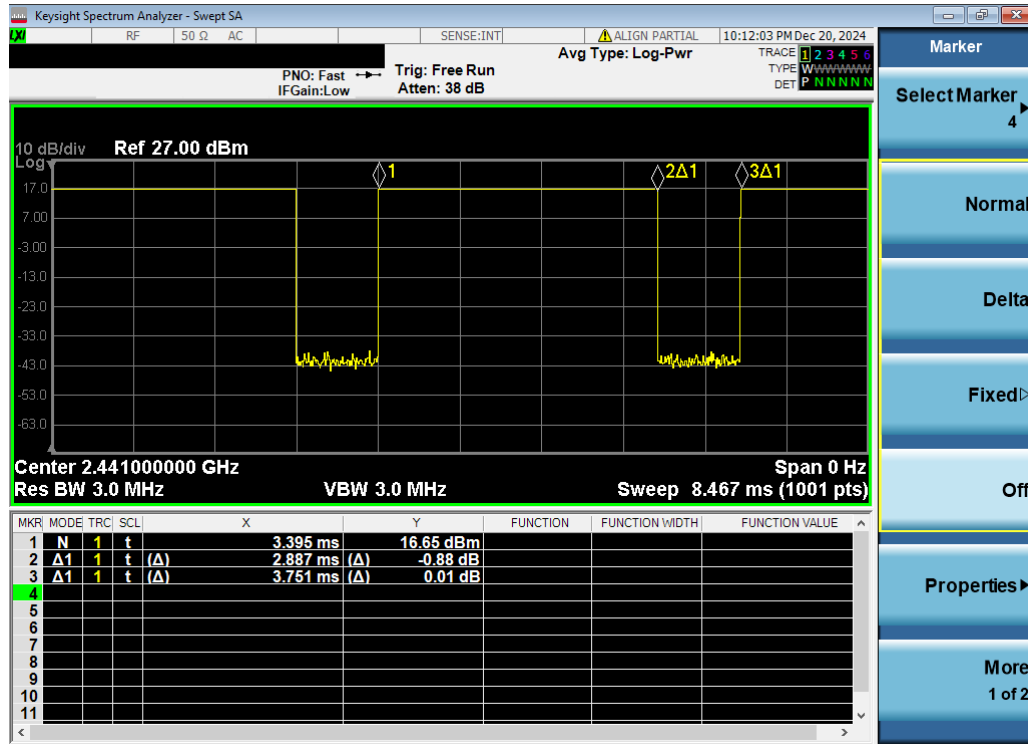
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.887 \text{ ms}}{3.751 \text{ ms}} * 100\% = 76.97\%$$

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



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

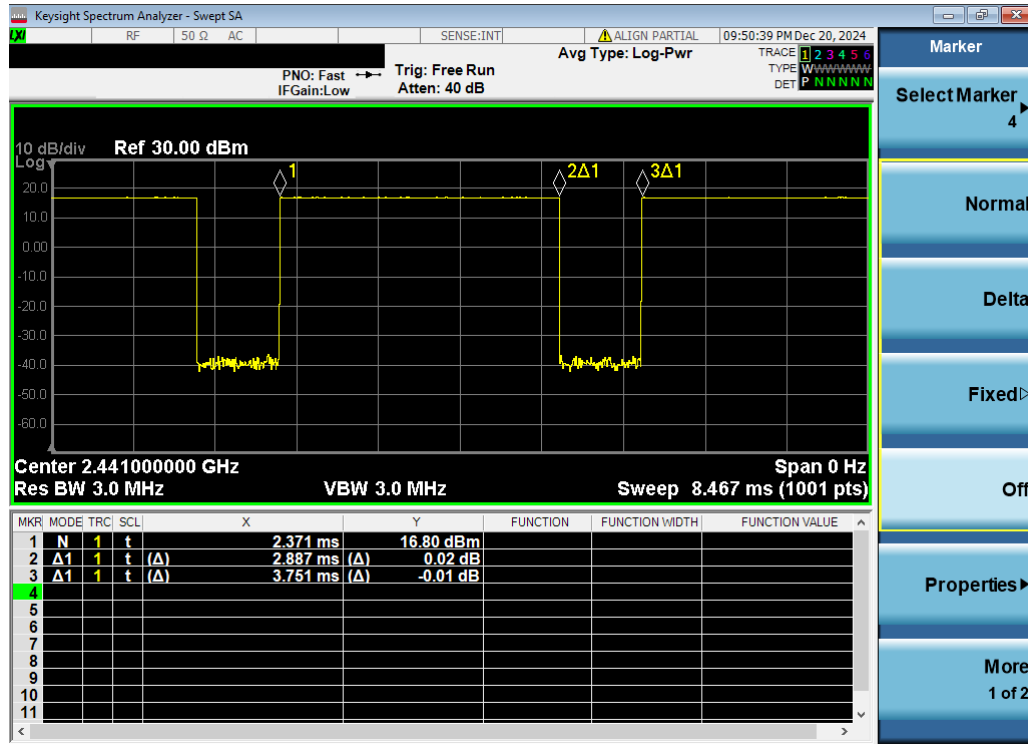
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.887 \text{ ms}}{3.751 \text{ ms}} * 100\% = 76.97\%$$

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



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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.887 \text{ ms}}{3.751 \text{ ms}} * 100\% = 76.97\%$$

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8.14 Bluetooth Power Reduction Verification Summary

Table 8-147
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Channel	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
						[dBm]	[dBm]	
Ant 3A	2.4 GHz Bluetooth	39	Main Band 3B ON	13.50	10.00	11.82	9.44	PASS
	2.4 GHz Bluetooth	39	Main Band 3A ON	13.50	10.00	11.82	9.41	PASS
	2.4 GHz Bluetooth	39	ULCA ON and 5 GHz WLAN 3A/1B/3C ON	13.50	6.50	11.82	5.89	PASS
	2.4 GHz Bluetooth	39	Main band Ant 4 ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	6.50	11.82	5.92	PASS
	2.4 GHz Bluetooth	39	Main band Ant 3B ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	6.50	11.82	5.94	PASS
	2.4 GHz Bluetooth	39	Main band Ant 3A ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	6.50	11.82	5.94	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 2A ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	8.00	11.82	7.30	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 2B ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	8.00	11.82	7.30	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 1A ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	8.00	11.82	7.42	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 1B ON and 5 GHz WLAN Ant 3A/1B/3C ON	13.50	8.00	11.82	7.40	PASS
	2.4 GHz Bluetooth	39	5 GHz WLAN Ant 3A/1B/3C ON	13.50	8.00	11.82	7.30	PASS
	2.4 GHz Bluetooth	39	Main Band 2B ON	12.50	9.00	11.67	8.25	PASS
Ant 1A	2.4 GHz Bluetooth	39	Main Band 1A ON	12.50	9.00	11.67	8.09	PASS
	2.4 GHz Bluetooth	39	Main Band 1B ON	12.50	9.00	11.67	8.26	PASS
	2.4 GHz Bluetooth	39	ULCA ON and 5 GHz WLAN 3A/1B/3C ON	12.50	5.50	11.67	4.88	PASS
	2.4 GHz Bluetooth	39	Main band Ant 4 ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	7.00	11.67	6.30	PASS
	2.4 GHz Bluetooth	39	Main band Ant 3B ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	7.00	11.67	6.22	PASS
	2.4 GHz Bluetooth	39	Main band Ant 3A ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	7.00	11.67	6.23	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 2A ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	5.50	11.67	4.76	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 2B ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	5.50	11.67	4.80	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 1A ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	5.50	11.67	4.69	PASS
	2.4 GHz Bluetooth	39	Main Band Ant 1B ON and 5 GHz WLAN Ant 3A/1B/3C ON	12.50	5.50	11.67	4.69	PASS
	2.4 GHz Bluetooth	39	5 GHz WLAN Ant 3A/1B/3C ON	12.50	7.00	11.67	6.32	PASS
	2.4 GHz Bluetooth	39	Main Band 2B ON	12.50	9.00	11.67	8.25	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

8.15 Notes for Bluetooth

- The Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining Bluetooth configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

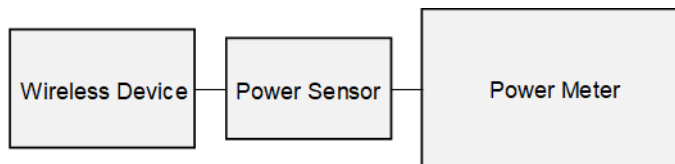


Figure 8-8
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/06/2024	750 Head	20.4	680	0.852	40.475	0.888	42.305	-4.05%	-4.33%
			695	0.857	40.444	0.889	42.227	-3.60%	-4.22%
			700	0.858	40.436	0.889	42.201	-3.49%	-4.18%
			710	0.861	40.414	0.890	42.149	-3.26%	-4.12%
			725	0.866	40.373	0.891	42.071	-2.81%	-4.04%
			750	0.875	40.318	0.894	41.942	-2.13%	-3.87%
			770	0.882	40.287	0.895	41.838	-1.45%	-3.71%
			785	0.887	40.258	0.896	41.760	-1.00%	-3.60%
11/10/2024	750 Head	20.7	800	0.892	40.223	0.897	41.682	-0.56%	-3.50%
			680	0.857	40.230	0.888	42.305	-3.49%	-4.90%
			695	0.862	40.194	0.889	42.227	-3.04%	-4.81%
			700	0.864	40.185	0.889	42.201	-2.81%	-4.78%
			710	0.868	40.162	0.890	42.149	-2.47%	-4.71%
			725	0.874	40.123	0.891	42.071	-1.91%	-4.63%
			750	0.881	40.056	0.894	41.942	-1.45%	-4.50%
			770	0.887	40.000	0.895	41.838	-0.89%	-4.39%
11/14/2024	750 Head	20.8	785	0.893	39.959	0.896	41.760	-0.33%	-4.31%
			800	0.899	39.931	0.897	41.682	0.22%	-4.20%
			680	0.869	40.417	0.888	42.305	-2.14%	-4.46%
			695	0.874	40.388	0.889	42.227	-1.69%	-4.36%
			700	0.875	40.383	0.889	42.201	-1.57%	-4.31%
			710	0.878	40.372	0.890	42.149	-1.35%	-4.22%
			725	0.883	40.348	0.891	42.071	-0.90%	-4.10%
			750	0.890	40.263	0.894	41.942	-0.45%	-4.00%
11/18/2024	750 Head	20.1	770	0.897	40.168	0.895	41.838	0.22%	-3.99%
			785	0.903	40.118	0.896	41.760	0.78%	-3.93%
			800	0.909	40.084	0.897	41.682	1.34%	-3.83%
			680	0.888	40.387	0.888	42.305	0.00%	-4.53%
			695	0.894	40.356	0.889	42.227	0.56%	-4.43%
			700	0.896	40.323	0.889	42.201	0.79%	-4.45%
			710	0.898	40.256	0.890	42.149	0.90%	-4.49%
			725	0.900	40.236	0.891	42.071	1.01%	-4.36%
	750 Head	20.1	750	0.911	40.180	0.894	41.942	1.90%	-4.20%
			770	0.916	40.100	0.895	41.838	2.35%	-4.15%
			785	0.923	40.084	0.896	41.760	3.01%	-4.01%
			800	0.928	39.991	0.897	41.682	3.46%	-4.06%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/11/2024	835 Head	20.0	815	0.887	40.899	0.898	41.594	-1.22%	-1.67%
			820	0.891	40.829	0.899	41.578	-0.89%	-1.80%
			835	0.906	40.635	0.900	41.500	0.67%	-2.08%
			850	0.920	40.448	0.916	41.500	0.44%	-2.53%
11/13/2024	835 Head	20.4	815	0.875	41.197	0.898	41.594	-2.56%	-0.95%
			820	0.880	41.122	0.899	41.578	-2.11%	-1.10%
			835	0.895	40.900	0.900	41.500	-0.56%	-1.45%
			850	0.910	40.714	0.916	41.500	-0.66%	-1.89%
11/15/2024	835 Head	19.9	815	0.896	40.696	0.898	41.594	-0.22%	-2.16%
			820	0.901	40.626	0.899	41.578	0.22%	-2.29%
			835	0.915	40.409	0.900	41.500	1.67%	-2.63%
			850	0.930	40.206	0.916	41.500	1.53%	-3.12%
11/18/2024	835 Head	19.6	815	0.920	39.853	0.898	41.594	2.45%	-4.19%
			820	0.924	39.841	0.899	41.578	2.78%	-4.18%
			835	0.943	39.743	0.900	41.500	4.78%	-4.23%
			850	0.959	39.460	0.916	41.500	4.69%	-4.92%
11/11/2024	1750 Head	20.1	1700	1.375	39.058	1.343	40.145	2.38%	-2.71%
			1705	1.380	39.035	1.345	40.141	2.60%	-2.76%
			1710	1.385	39.008	1.348	40.136	2.74%	-2.81%
			1720	1.395	38.959	1.354	40.126	3.03%	-2.91%
			1745	1.418	38.856	1.368	40.087	3.65%	-3.07%
			1750	1.422	38.836	1.371	40.079	3.72%	-3.10%
			1770	1.440	38.752	1.383	40.047	4.12%	-3.23%
			1790	1.457	38.673	1.394	40.016	4.52%	-3.36%
11/24/2024	1750 Head	22.4	1700	1.378	39.343	1.343	40.145	2.61%	-2.00%
			1705	1.382	39.321	1.345	40.141	2.75%	-2.04%
			1710	1.386	39.297	1.348	40.136	2.82%	-2.09%
			1720	1.396	39.259	1.354	40.126	3.10%	-2.16%
			1745	1.420	39.134	1.368	40.087	3.80%	-2.38%
			1750	1.425	39.109	1.371	40.079	3.94%	-2.42%
			1770	1.443	39.029	1.383	40.047	4.34%	-2.54%
11/10/2024	1900 Head	23.5	1790	1.461	38.949	1.394	40.016	4.81%	-2.67%
			1850	1.373	40.120	1.400	40.000	-1.93%	0.30%
			1860	1.384	40.069	1.400	40.000	-1.14%	0.17%
			1880	1.405	39.977	1.400	40.000	0.36%	-0.06%
			1900	1.426	39.907	1.400	40.000	1.86%	-0.23%
			1905	1.430	39.887	1.400	40.000	2.14%	-0.28%
			1910	1.435	39.866	1.400	40.000	2.50%	-0.34%
11/14/2024	1900 Head	22.5	1920	1.445	39.821	1.400	40.000	3.21%	-0.45%
			1850	1.350	38.288	1.400	40.000	-3.57%	-4.28%
			1860	1.360	38.240	1.400	40.000	-2.86%	-4.40%
			1880	1.378	38.158	1.400	40.000	-1.57%	-4.61%
			1900	1.398	38.082	1.400	40.000	-0.14%	-4.80%
			1905	1.403	38.064	1.400	40.000	0.21%	-4.84%
			1910	1.408	38.049	1.400	40.000	0.57%	-4.88%
11/14/2024	1900 Head	22.5	1920	1.418	38.015	1.400	40.000	1.29%	-4.96%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/04/2024	2450 Head	24.4	2300	1.633	38.445	1.670	39.500	-2.22%	-2.67%
			2310	1.643	38.405	1.679	39.480	-2.14%	-2.72%
			2320	1.654	38.371	1.687	39.460	-1.96%	-2.76%
			2400	1.743	38.072	1.756	39.289	-0.74%	-3.10%
			2450	1.798	37.894	1.800	39.200	-0.11%	-3.33%
			2480	1.830	37.765	1.833	39.162	-0.16%	-3.57%
			2500	1.852	37.683	1.855	39.136	-0.16%	-3.71%
			2510	1.863	37.650	1.866	39.123	-0.16%	-3.77%
			2535	1.891	37.557	1.893	39.092	-0.11%	-3.93%
			2550	1.909	37.500	1.909	39.073	0.00%	-4.03%
			2560	1.921	37.462	1.920	39.060	0.05%	-4.09%
			2600	1.965	37.294	1.964	39.009	0.05%	-4.40%
			2650	2.024	37.102	2.018	38.945	0.30%	-4.73%
			2680	2.058	36.974	2.051	38.907	0.34%	-4.97%
11/09/2024	2450 Head	19.1	2300	1.677	37.729	1.670	39.500	0.42%	-4.48%
			2310	1.684	37.719	1.679	39.480	0.30%	-4.46%
			2320	1.692	37.705	1.687	39.460	0.30%	-4.45%
			2400	1.751	37.568	1.756	39.289	-0.28%	-4.38%
			2450	1.788	37.489	1.800	39.200	-0.67%	-4.36%
			2480	1.809	37.428	1.833	39.162	-1.31%	-4.43%
			2500	1.825	37.399	1.855	39.136	-1.62%	-4.44%
			2510	1.833	37.384	1.866	39.123	-1.77%	-4.44%
			2535	1.852	37.351	1.893	39.092	-2.17%	-4.45%
			2550	1.863	37.33	1.909	39.073	-2.41%	-4.46%
			2560	1.870	37.312	1.920	39.060	-2.60%	-4.48%
			2600	1.900	37.243	1.964	39.009	-3.26%	-4.53%
			2650	1.944	37.158	2.018	38.945	-3.67%	-4.59%
			2680	1.968	37.111	2.051	38.907	-4.05%	-4.62%
			2700	1.984	37.071	2.073	38.882	-4.29%	-4.66%
11/12/2024	2450 Head	24.9	2300	1.700	39.859	1.670	39.500	1.80%	0.91%
			2310	1.712	39.825	1.679	39.480	1.97%	0.87%
			2320	1.723	39.789	1.687	39.460	2.13%	0.83%
			2400	1.815	39.472	1.756	39.289	3.36%	0.47%
			2450	1.873	39.265	1.800	39.200	4.06%	0.17%
			2480	1.908	39.124	1.833	39.162	4.09%	-0.10%
			2500	1.932	39.045	1.855	39.136	4.15%	-0.23%
			2510	1.945	39.015	1.866	39.123	4.23%	-0.28%
			2535	1.974	38.924	1.893	39.092	4.28%	-0.43%
			2550	1.992	38.862	1.909	39.073	4.35%	-0.54%
			2560	2.004	38.814	1.920	39.060	4.38%	-0.63%
			2600	2.051	38.636	1.964	39.009	4.43%	-0.96%
			2650	2.107	38.434	2.018	38.945	4.41%	-1.31%
			2680	2.143	38.300	2.051	38.907	4.49%	-1.56%
			2700	2.167	38.213	2.073	38.882	4.53%	-1.72%
11/14/2024	2450 Head	24.4	2300	1.675	39.357	1.670	39.500	0.30%	-0.36%
			2310	1.687	39.331	1.679	39.480	0.48%	-0.38%
			2320	1.698	39.304	1.687	39.460	0.65%	-0.40%
			2400	1.786	38.959	1.756	39.289	1.71%	-0.84%
			2450	1.838	38.760	1.800	39.200	2.11%	-1.12%
			2480	1.876	38.617	1.833	39.162	2.35%	-1.39%
			2500	1.901	38.556	1.855	39.136	2.48%	-1.48%
			2510	1.913	38.524	1.866	39.123	2.52%	-1.53%
			2535	1.939	38.424	1.893	39.092	2.43%	-1.71%
			2550	1.956	38.349	1.909	39.073	2.46%	-1.85%
			2560	1.970	38.301	1.920	39.060	2.60%	-1.94%
			2600	2.024	38.191	1.964	39.009	3.05%	-2.10%
			2650	2.076	37.981	2.018	38.945	2.87%	-2.48%
			2680	2.117	37.864	2.051	38.907	3.22%	-2.68%
			2700	2.142	37.816	2.073	38.882	3.33%	-2.74%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/19/2024	2450 Head	19.3	2300	1.743	38.641	1.670	39.500	4.37%	-2.17%
			2310	1.752	38.624	1.679	39.480	4.35%	-2.17%
			2320	1.760	38.611	1.687	39.460	4.33%	-2.15%
			2400	1.820	38.469	1.756	39.289	3.64%	-2.09%
			2450	1.862	38.386	1.800	39.200	3.44%	-2.08%
			2480	1.885	38.343	1.833	39.162	2.84%	-2.09%
			2500	1.901	38.294	1.855	39.136	2.48%	-2.15%
			2510	1.909	38.268	1.866	39.123	2.30%	-2.19%
			2535	1.931	38.214	1.893	39.092	2.01%	-2.25%
			2550	1.944	38.195	1.909	39.073	1.83%	-2.25%
			2560	1.953	38.180	1.920	39.060	1.72%	-2.25%
			2600	1.984	38.092	1.964	39.009	1.02%	-2.35%
			2650	2.028	37.982	2.018	38.945	0.50%	-2.47%
			2680	2.054	37.920	2.051	38.907	0.15%	-2.54%
			2700	2.069	37.878	2.073	38.882	-0.19%	-2.58%
11/22/2024	2450 Head	23.9	2300	1.681	38.820	1.670	39.500	0.66%	-1.72%
			2310	1.693	38.787	1.679	39.480	0.83%	-1.76%
			2320	1.704	38.750	1.687	39.460	1.01%	-1.80%
			2400	1.794	38.423	1.756	39.289	2.16%	-2.20%
			2450	1.850	38.234	1.800	39.200	2.78%	-2.46%
			2480	1.883	38.101	1.833	39.162	2.73%	-2.71%
			2500	1.908	38.025	1.855	39.136	2.86%	-2.84%
			2510	1.919	37.987	1.866	39.123	2.84%	-2.90%
			2535	1.948	37.887	1.893	39.092	2.91%	-3.08%
			2550	1.964	37.822	1.909	39.073	2.88%	-3.20%
			2560	1.975	37.777	1.920	39.060	2.86%	-3.28%
			2600	2.023	37.618	1.964	39.009	3.00%	-3.57%
			2650	2.081	37.420	2.018	38.945	3.12%	-3.92%
			2680	2.115	37.298	2.051	38.907	3.12%	-4.14%
			2700	2.136	37.212	2.073	38.882	3.04%	-4.30%
11/24/2024	2450 Head	24.7	2300	1.686	39.167	1.670	39.500	0.96%	-0.84%
			2310	1.699	39.132	1.679	39.480	1.19%	-0.88%
			2320	1.711	39.100	1.687	39.460	1.42%	-0.91%
			2400	1.801	38.779	1.756	39.289	2.56%	-1.30%
			2450	1.859	38.581	1.800	39.200	3.28%	-1.58%
			2480	1.892	38.454	1.833	39.162	3.22%	-1.81%
			2500	1.916	38.371	1.855	39.136	3.29%	-1.95%
			2510	1.928	38.331	1.866	39.123	3.32%	-2.02%
			2535	1.957	38.229	1.893	39.092	3.38%	-2.21%
			2550	1.973	38.175	1.909	39.073	3.35%	-2.30%
			2560	1.984	38.143	1.920	39.060	3.33%	-2.35%
			2600	2.030	37.968	1.964	39.009	3.36%	-2.67%
			2650	2.090	37.757	2.018	38.945	3.57%	-3.05%
			2680	2.124	37.636	2.051	38.907	3.56%	-3.27%
			2700	2.145	37.550	2.073	38.882	3.47%	-3.43%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/09/2024	3600 Head	19.0	3300	2.712	37.202	2.708	38.157	0.15%	-2.50%
			3350	2.749	37.090	2.759	38.100	-0.36%	-2.65%
			3450	2.830	36.938	2.861	37.986	-1.08%	-2.76%
			3500	2.879	36.868	2.913	37.929	-1.17%	-2.80%
			3550	2.917	36.791	2.964	37.871	-1.59%	-2.85%
			3560	2.926	36.757	2.974	37.860	-1.61%	-2.91%
			3600	2.961	36.706	3.015	37.814	-1.79%	-2.93%
			3650	3.004	36.645	3.066	37.757	-2.02%	-2.95%
			3690	3.043	36.573	3.107	37.711	-2.06%	-3.02%
			3700	3.053	36.552	3.117	37.700	-2.05%	-3.05%
			3750	3.093	36.486	3.169	37.643	-2.40%	-3.07%
			3900	3.236	36.270	3.323	37.471	-2.62%	-3.21%
			3930	3.262	36.218	3.353	37.437	-2.71%	-3.26%
			4100	3.427	35.958	3.528	37.243	-2.86%	-3.45%
			4150	3.469	35.920	3.579	37.186	-3.07%	-3.40%
			4350	3.678	35.565	3.781	36.943	-2.72%	-3.73%
			4400	3.728	35.487	3.833	36.886	-2.74%	-3.79%
			4450	3.777	35.375	3.884	36.829	-2.75%	-3.95%
			4500	3.827	35.322	3.936	36.771	-2.77%	-3.94%
			4550	3.879	35.210	3.987	36.714	-2.71%	-4.10%
			4600	3.926	35.170	4.039	36.657	-2.80%	-4.06%
			4650	3.983	35.064	4.090	36.600	-2.62%	-4.20%
			4700	4.032	35.009	4.141	36.543	-2.63%	-4.20%
			4750	4.082	34.903	4.193	36.486	-2.65%	-4.34%
			4800	4.145	34.789	4.244	36.429	-2.33%	-4.50%
			4850	4.199	34.718	4.296	36.371	-2.26%	-4.54%
			4900	4.243	34.638	4.347	36.314	-2.39%	-4.62%
			4950	4.290	34.552	4.399	36.257	-2.48%	-4.70%
			5000	4.337	34.426	4.450	36.200	-2.54%	-4.90%
11/21/2024	3600 Head	19.0	3300	2.671	38.925	2.708	38.157	-1.37%	2.01%
			3350	2.716	38.842	2.759	38.100	-1.56%	1.95%
			3450	2.809	38.627	2.861	37.986	-1.82%	1.69%
			3500	2.856	38.535	2.913	37.929	-1.96%	1.60%
			3550	2.904	38.450	2.964	37.871	-2.02%	1.53%
			3560	2.915	38.415	2.974	37.860	-1.98%	1.47%
			3600	2.953	38.362	3.015	37.814	-2.06%	1.45%
			3650	3.006	38.266	3.066	37.757	-1.96%	1.35%
			3690	3.045	38.189	3.107	37.711	-2.00%	1.27%
			3700	3.056	38.160	3.117	37.700	-1.96%	1.22%
			3750	3.110	38.087	3.169	37.643	-1.86%	1.18%
			3900	3.267	37.822	3.323	37.471	-1.69%	0.94%
			3930	3.294	37.767	3.353	37.437	-1.76%	0.88%
			4100	3.476	37.474	3.528	37.243	-1.47%	0.62%
			4150	3.527	37.413	3.579	37.186	-1.45%	0.61%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/24/2024	3600 Head	19.0	3300	2.633	38.489	2.708	38.157	-2.77%	0.87%
			3350	2.677	38.399	2.759	38.100	-2.97%	0.78%
			3450	2.760	38.228	2.861	37.986	-3.53%	0.64%
			3500	2.805	38.088	2.913	37.929	-3.71%	0.42%
			3550	2.857	38.018	2.964	37.871	-3.61%	0.39%
			3560	2.867	37.998	2.974	37.860	-3.60%	0.36%
			3600	2.905	37.928	3.015	37.814	-3.65%	0.30%
			3650	2.954	37.825	3.066	37.757	-3.65%	0.18%
			3690	2.998	37.742	3.107	37.711	-3.51%	0.08%
			3700	3.009	37.721	3.117	37.700	-3.46%	0.06%
			3750	3.067	37.629	3.169	37.643	-3.22%	-0.04%
			3900	3.224	37.395	3.323	37.471	-2.98%	-0.20%
			3930	3.262	37.342	3.353	37.437	-2.71%	-0.25%
			4100	3.442	37.075	3.528	37.243	-2.44%	-0.45%
			4150	3.494	37.004	3.579	37.186	-2.37%	-0.49%
11/26/2024	3600 Head	19.0	3300	2.682	37.023	2.708	38.157	-0.96%	-2.97%
			3350	2.721	36.959	2.759	38.100	-1.38%	-2.99%
			3450	2.800	36.812	2.861	37.986	-2.13%	-3.09%
			3500	2.844	36.731	2.913	37.929	-2.37%	-3.16%
			3550	2.885	36.665	2.964	37.871	-2.67%	-3.18%
			3560	2.892	36.643	2.974	37.860	-2.76%	-3.21%
			3600	2.925	36.571	3.015	37.814	-2.99%	-3.29%
			3650	2.969	36.501	3.066	37.757	-3.16%	-3.33%
			3690	3.002	36.442	3.107	37.711	-3.38%	-3.37%
			3700	3.012	36.416	3.117	37.700	-3.37%	-3.41%
			3750	3.054	36.354	3.169	37.643	-3.63%	-3.42%
			3900	3.184	36.141	3.323	37.471	-4.18%	-3.55%
			3930	3.214	36.089	3.353	37.437	-4.15%	-3.60%
			4100	3.365	35.855	3.528	37.243	-4.62%	-3.73%
			4150	3.413	35.808	3.579	37.186	-4.64%	-3.71%
			4400	3.668	35.410	3.833	36.886	-4.30%	-4.00%
			4350	3.607	35.482	3.781	36.943	-4.60%	-3.95%
			4400	3.668	35.410	3.833	36.886	-4.30%	-4.00%
			4450	3.708	35.324	3.884	36.829	-4.53%	-4.09%
			4500	3.765	35.252	3.936	36.771	-4.34%	-4.13%
			4550	3.808	35.170	3.987	36.714	-4.49%	-4.21%
			4600	3.8600	35.102	4.039	36.657	-4.43%	-4.24%
			4650	3.904	35.023	4.090	36.600	-4.55%	-4.31%
			4700	3.958	34.952	4.141	36.543	-4.42%	-4.35%
			4750	4.006	34.869	4.193	36.486	-4.46%	-4.43%
			4800	4.068	34.731	4.244	36.429	-4.15%	-4.66%
			4850	4.117	34.696	4.296	36.371	-4.17%	-4.61%
			4900	4.165	34.589	4.347	36.314	-4.19%	-4.75%
			4950	4.214	34.533	4.399	36.257	-4.21%	-4.75%
			5000	4.264	34.434	4.450	36.200	-4.18%	-4.88%

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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
11/12/2024	5200-5800 Head	19.4	5150	4.422	35.067	4.608	36.050	-4.04%	-2.73%
			5160	4.437	35.047	4.618	36.040	-3.92%	-2.76%
			5170	4.453	35.036	4.629	36.030	-3.80%	-2.76%
			5180	4.466	35.021	4.635	36.009	-3.65%	-2.74%
			5190	4.477	34.999	4.645	35.998	-3.62%	-2.78%
			5200	4.487	34.978	4.655	35.986	-3.61%	-2.80%
			5210	4.500	34.977	4.666	35.975	-3.56%	-2.77%
			5220	4.509	34.974	4.676	35.963	-3.57%	-2.75%
			5240	4.528	34.913	4.696	35.940	-3.58%	-2.86%
			5250	4.538	34.895	4.706	35.929	-3.57%	-2.88%
			5260	4.549	34.881	4.717	35.917	-3.56%	-2.88%
			5270	4.559	34.859	4.727	35.906	-3.55%	-2.92%
			5280	4.576	34.839	4.737	35.894	-3.40%	-2.94%
			5290	4.591	34.815	4.748	35.883	-3.31%	-2.98%
			5300	4.601	34.803	4.758	35.871	-3.30%	-2.98%
			5310	4.606	34.792	4.768	35.860	-3.40%	-2.98%
			5320	4.620	34.779	4.778	35.849	-3.31%	-2.98%
			5500	4.820	34.433	4.963	35.643	-2.88%	-3.39%
			5510	4.831	34.419	4.973	35.632	-2.86%	-3.40%
			5520	4.840	34.404	4.983	35.620	-2.87%	-3.41%
			5530	4.849	34.376	4.994	35.609	-2.90%	-3.46%
			5540	4.862	34.347	5.004	35.597	-2.84%	-3.51%
			5550	4.871	34.328	5.014	35.586	-2.85%	-3.54%
			5560	4.880	34.316	5.024	35.574	-2.87%	-3.54%
			5580	4.899	34.289	5.045	35.551	-2.89%	-3.55%
			5600	4.932	34.232	5.065	35.529	-2.63%	-3.65%
			5610	4.947	34.217	5.076	35.518	-2.54%	-3.66%
			5620	4.957	34.215	5.086	35.506	-2.54%	-3.64%
			5640	4.975	34.183	5.106	35.483	-2.57%	-3.66%
			5660	5.002	34.148	5.127	35.460	-2.44%	-3.70%
			5670	5.013	34.132	5.137	35.449	-2.41%	-3.72%
			5680	5.021	34.108	5.147	35.437	-2.45%	-3.75%
			5690	5.031	34.083	5.158	35.426	-2.46%	-3.79%
			5700	5.046	34.050	5.168	35.414	-2.36%	-3.85%
			5710	5.060	34.024	5.178	35.403	-2.28%	-3.90%
			5720	5.070	34.016	5.188	35.391	-2.27%	-3.89%
			5745	5.097	33.985	5.214	35.363	-2.24%	-3.90%
			5750	5.103	33.972	5.219	35.357	-2.22%	-3.92%
			5755	5.110	33.962	5.224	35.351	-2.18%	-3.93%
			5765	5.122	33.944	5.234	35.340	-2.14%	-3.95%
			5775	5.128	33.926	5.245	35.329	-2.23%	-3.97%
			5785	5.139	33.907	5.255	35.317	-2.21%	-3.99%
			5795	5.152	33.891	5.265	35.305	-2.15%	-4.01%
			5800	5.157	33.878	5.270	35.300	-2.14%	-4.03%
			5805	5.163	33.865	5.275	35.294	-2.12%	-4.05%
			5825	5.188	33.832	5.296	35.271	-2.04%	-4.08%
			5835	5.201	33.814	5.305	35.230	-1.96%	-4.02%
			5845	5.213	33.801	5.315	35.210	-1.92%	-4.00%
			5850	5.220	33.798	5.320	35.200	-1.88%	-3.98%
			5855	5.226	33.793	5.325	35.197	-1.86%	-3.99%
			5865	5.239	33.781	5.336	35.190	-1.82%	-4.00%
			5875	5.250	33.753	5.347	35.183	-1.81%	-4.06%
			5885	5.259	33.727	5.357	35.177	-1.83%	-4.12%
			5905	5.277	33.696	5.379	35.163	-1.90%	-4.17%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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 (%)
AM11	750	HEAD	11/06/2024	20.9	20.1	0.20	1097	7532	501	1.69	8.27	8.45	2.18%
AM1	750	HEAD	11/10/2024	20.0	20.8	0.20	1057	7416	701	1.63	8.51	8.15	-4.23%
AM1	750	HEAD	11/14/2024	22.3	21.0	0.20	1057	7416	701	1.79	8.51	8.95	5.17%
AM11	750	HEAD	11/18/2024	22.0	20.1	0.20	1097	7532	501	1.75	8.27	8.75	5.80%
AM13	835	HEAD	11/11/2024	20.2	20.0	0.20	460	7682	1683	2.03	9.72	10.15	4.42%
AM13	835	HEAD	11/13/2024	21.5	20.8	0.20	460	7682	1683	1.97	9.72	9.85	1.34%
AM13	835	HEAD	11/15/2024	21.5	20.6	0.20	460	7682	1683	1.97	9.72	9.85	1.34%
AM13	835	HEAD	11/18/2024	21.2	20.0	0.20	460	7682	1683	2.00	9.72	10.00	2.88%
AM14	1750	HEAD	11/11/2024	20.0	19.9	0.10	1104	7360	534	3.73	35.60	37.30	4.78%
AM14	1750	HEAD	11/24/2024	22.5	20.7	0.10	1083	7360	534	3.51	36.50	35.10	-3.84%
AM7	1900	HEAD	11/10/2024	21.1	21.5	0.10	5d131	7421	604	4.10	39.80	41.00	3.02%
AM7	1900	HEAD	11/14/2024	22.5	21.5	0.10	5d180	7421	604	4.22	39.20	42.20	7.65%
AM10	2300	HEAD	11/04/2024	22.8	22.8	0.10	1038	7546	1402	4.94	49.10	49.40	0.61%
AM10	2300	HEAD	11/12/2024	24.0	22.9	0.10	1038	7546	1402	4.71	49.10	47.10	-4.07%
AM6	2450	HEAD	11/09/2024	20.5	20.4	0.10	921	7639	1403	5.61	52.20	56.10	7.47%
AM16	2450	HEAD	11/14/2024	20.0	22.7	0.10	750	7552	1676	5.22	52.60	52.20	-0.76%
AM6	2450	HEAD	11/19/2024	21.4	20.9	0.10	921	7639	1403	5.43	52.20	54.30	4.02%
AM16	2450	HEAD	11/22/2024	21.5	22.3	0.10	750	7552	1676	5.21	52.60	52.10	-0.95%
AM16	2450	HEAD	11/24/2024	21.0	23.5	0.10	855	7552	1676	5.24	52.40	52.40	0.00%
AM16	2600	HEAD	11/14/2024	20.0	22.7	0.10	1042	7552	1676	5.59	55.80	55.90	0.18%
AM16	2600	HEAD	11/22/2024	21.5	22.3	0.10	1042	7552	1676	5.66	55.80	56.60	1.43%
AM16	2600	HEAD	11/24/2024	21.0	23.5	0.10	1068	7552	1676	5.62	56.50	56.20	-0.53%
AM3	3500	HEAD	11/09/2024	23.3	20.6	0.10	1126	7668	1681	6.84	66.20	68.40	3.32%
AM4	3500	HEAD	11/21/2024	23.0	21.0	0.10	1126	7357	1582	6.78	66.20	67.80	2.42%
AM4	3500	HEAD	11/24/2024	21.0	20.0	0.10	1126	7357	1582	6.67	66.20	66.70	0.76%
AM3	3500	HEAD	11/26/2024	22.8	20.5	0.10	1126	7668	1681	6.47	66.20	64.70	-2.27%
AM3	3700	HEAD	11/09/2024	23.3	20.6	0.10	1097	7668	1681	6.97	67.90	69.70	2.65%
AM4	3700	HEAD	11/21/2024	23.0	21.0	0.10	1097	7357	1582	6.94	67.90	69.40	2.21%
AM4	3700	HEAD	11/24/2024	21.0	20.0	0.10	1097	7357	1582	6.68	67.90	66.80	-1.62%
AM3	3700	HEAD	11/26/2024	22.8	20.5	0.10	1097	7668	1681	6.67	67.90	66.70	-1.77%
AM3	3900	HEAD	11/09/2024	23.3	20.6	0.10	1056	7668	1681	6.99	68.20	69.90	2.49%
AM3	3900	HEAD	11/26/2024	22.8	20.5	0.10	1056	7668	1681	6.90	68.20	69.00	1.17%
AM9	5250	HEAD	11/12/2024	22.6	20.6	0.05	1123	7782	1646	3.76	79.40	75.20	-5.29%
AM9	5600	HEAD	11/12/2024	22.6	20.6	0.05	1163	7782	1646	4.20	82.80	84.00	1.45%
AM9	5750	HEAD	11/12/2024	22.6	20.6	0.05	1163	7782	1646	3.90	81.10	78.00	-3.82%

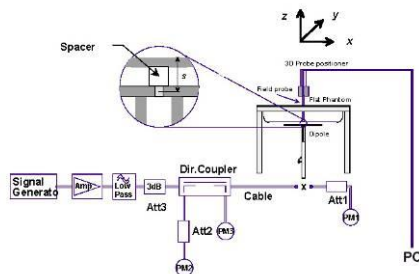


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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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)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.01	826.40	4132	17.00	16.05	Back	0	0.583	0.293	1.245	0.726	0.365	0.454		17.7	16.3
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.02	836.60	4183	17.00	16.06	Back	0	0.643	0.323	1.242	0.799	0.401	0.499		17.3	
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.00	846.60	4233	17.00	16.08	Back	0	0.697	0.348	1.236	0.861	0.430	0.538		16.9	
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.01	826.40	4132	17.00	16.05	Top	0	0.795	0.348	1.245	0.990	0.433	0.619	A1	16.3	
Body	UMTS 850	RMC	3b	ZXGK	1:1	-0.04	836.60	4183	17.00	16.06	Top	0	0.774	0.321	1.242	0.961	0.399	0.601		16.5	
Body	UMTS 850	RMC	3b	ZXGK	1:1	-0.09	846.60	4233	17.00	16.08	Top	0	0.740	0.311	1.236	0.915	0.384	0.572		16.7	
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.04	846.60	4233	17.00	16.08	Bottom	0	0.007	0.003	1.236	0.009	0.004	0.006		36.9	
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.05	846.60	4233	17.00	16.08	Right	0	0.107	0.052	1.236	0.132	0.064	0.083		25.1	
Body	UMTS 850	RMC	3b	ZXGK	1:1	0.08	846.60	4233	17.00	16.08	Left	0	0.024	0.011	1.236	0.030	0.014	0.019		31.6	
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]	Reported 10g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	4	GVGVK	1:1	-0.01	826.40	4132	19.20	18.11	Back	0	0.646	0.311	1.285	0.830	0.400	0.519		19.3	19.3
Body	UMTS 850	RMC	4	GVGVK	1:1	0.02	836.60	4183	19.20	18.21	Back	0	0.654	0.314	1.256	0.821	0.394	0.513		19.3	
Body	UMTS 850	RMC	4	GVGVK	1:1	0.01	846.60	4233	19.20	18.19	Back	0	0.626	0.300	1.262	0.790	0.379	0.494		19.5	
Body	UMTS 850	RMC	4	GVGVK	1:1	-0.02	836.60	4183	19.20	18.21	Top	0	0.587	0.250	1.256	0.737	0.314	0.461		19.8	
Body	UMTS 850	RMC	4	GVGVK	1:1	-0.07	836.60	4183	19.20	18.21	Bottom	0	0.018	0.010	1.256	0.023	0.013	0.014		35.0	
Body	UMTS 850	RMC	4	GVGVK	1:1	-0.01	836.60	4183	19.20	18.21	Right	0	0.029	0.014	1.256	0.036	0.018	0.023		32.9	
Body	UMTS 850	RMC	4	GVGVK	1:1	-0.03	836.60	4183	19.20	18.21	Left	0	0.600	0.255	1.256	0.754	0.320	0.471		19.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 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)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	1b	90VXG	1:1	-0.02	1712.40	1312	12.40	11.25	Back	0	0.734	0.289	1.303	0.956	0.377	0.598		11.6	11.6
Body	UMTS 1750	RMC	1b	90VXG	1:1	0.02	1732.40	1412	12.40	11.33	Back	0	0.742	0.294	1.279	0.949	0.376	0.593		11.6	
Body	UMTS 1750	RMC	1b	90VXG	1:1	0.00	1752.60	1513	12.40	11.35	Back	0	0.704	0.251	1.274	0.897	0.320	0.561		11.9	
Body	UMTS 1750	RMC	1b	90VXG	1:1	0.00	1752.60	1513	12.40	11.35	Top	0	0.000	0.000	1.274	0.000	0.000	0.000		50.3	
Body	UMTS 1750	RMC	1b	90VXG	1:1	0.02	1752.60	1513	12.40	11.35	Bottom	0	0.427	0.154	1.274	0.544	0.196	0.340		14.0	
Body	UMTS 1750	RMC	1b	90VXG	1:1	0.08	1752.60	1513	12.40	11.35	Right	0	0.004	0.001	1.274	0.005	0.001	0.003		34.3	
Body	UMTS 1750	RMC	1b	90VXG	1:1	-0.07	1752.60	1513	12.40	11.35	Left	0	0.070	0.030	1.274	0.089	0.038	0.056		21.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-4 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	2b	90VXG	1:1	0.01	1752.60	1513	13.90	12.70	Back	0	0.509	0.190	1.318	0.671	0.250	0.419		14.6	13.5
Body	UMTS 1750	RMC	2b	90VXG	1:1	0.02	1752.60	1513	13.90	12.70	Top	0	0.005	0.001	1.318	0.007	0.001	0.004		34.7	
Body	UMTS 1750	RMC	2b	90VXG	1:1	-0.02	1712.40	1312	13.90	12.65	Bottom	0	0.574	0.230	1.334	0.766	0.307	0.479		14.0	
Body	UMTS 1750	RMC	2b	90VXG	1:1	-0.01	1732.40	1412	13.90	12.69	Bottom	0	0.603	0.244	1.321	0.797	0.322	0.498		13.9	
Body	UMTS 1750	RMC	2b	90VXG	1:1	-0.03	1752.60	1513	13.90	12.70	Bottom	0	0.656	0.265	1.318	0.865	0.349	0.541		13.5	
Body	UMTS 1750	RMC	2b	90VXG	1:1	-0.04	1752.60	1513	13.90	12.70	Right	0	0.072	0.032	1.318	0.095	0.042	0.059		23.1	
Body	UMTS 1750	RMC	2b	90VXG	1:1	0.08	1752.60	1513	13.90	12.70	Left	0	0.001	0.000	1.318	0.001	0.000	0.001		41.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak												Body									
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram									

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Table 10-105 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]	Add'l info	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	MF42K	76.97	0.01	2402	0	1	13.50	12.89	Back	0	V1	0.532	0.241	1.151	1.007	0.617	0.279	0.386	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	-0.07	2402	0	1	13.50	12.89	Top	0	V1	0.499	0.151	1.151	1.007	0.509	0.175	0.318	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	-0.18	2402	0	1	13.50	12.89	Bottom	0	V1	0.033	0.004	1.151	1.007	0.038	0.016	0.024	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.01	2402	0	1	13.50	12.89	Right	0	V1	0.820	0.295	1.151	1.007	0.950	0.342	0.594	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.03	2441	39	1	13.50	12.67	Right	0	V1	0.891	0.319	1.211	1.007	1.086	0.389	0.679	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	-0.07	2480	78	1	13.50	12.60	Right	0	V1	0.961	0.342	1.230	1.007	1.190	0.427	0.764	A32
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	-0.18	2480	78	1	13.50	12.60	Right	0	V1	0.961	0.342	1.230	1.007	1.190	0.424	0.744	
Body	2.4 GHz Bluetooth	FHSS	3a	WDDQM	76.97	-0.02	2402	0	1	13.50	12.59	Right	0	V2	0.949	0.339	1.233	1.007	1.178	0.421	0.736	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.09	2402	0	1	13.50	12.89	Left	0	V1	0.000	0.000	1.151	1.007	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.01	2402	0	1	10.00	9.22	Back	0	V1	0.738	0.309	1.197	1.007	0.287	0.124	0.179	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	-0.01	2402	0	1	10.00	9.22	Top	0	V1	0.181	0.061	1.197	1.007	0.218	0.074	0.136	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	-0.12	2402	0	1	10.00	9.22	Right	0	V1	0.296	0.105	1.197	1.007	0.357	0.127	0.223	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.00	2402	0	1	8.00	6.68	Back	0	V1	0.129	0.057	1.355	1.007	0.176	0.078	0.110	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.06	2402	0	1	8.00	6.68	Top	0	V1	0.194	0.085	1.355	1.007	0.142	0.048	0.089	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.00	2402	0	1	8.00	6.68	Right	0	V1	0.161	0.060	1.355	1.007	0.220	0.082	0.138	
Body	2.4 GHz Bluetooth	FHSS	3a	MF42K	76.97	0.12	2402	0	1	6.50	5.35	Back	0	V1	0.087	0.038	1.303	1.007	0.114	0.050	0.071	
Body	2.4 GHz Bluetooth	FHSS	3a	MF24K	76.97	-0.07	2402	0	1	6.50	5.35	Top	0	V1	0.069	0.023	1.303	1.007	0.091	0.030	0.057	
Body	2.4 GHz Bluetooth	FHSS	3a	MF24K	76.97	0.06	2402	0	1	6.50	5.35	Right	0	V1	0.106	0.039	1.303	1.007	0.139	0.051	0.087	
ANSI/IEEE CS63.1-2005 - SAFETY LIMIT															Body 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak Uncontrolled Exposure/General Population																						

Note: Blue entry represents variability measurement

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

10.33 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, and FCC KDB Publication 447498 D04v01.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 11 for variability analysis.
- 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.
- This device uses Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.

UMTS Notes:

- 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.
- 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).

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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 a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure condition. Please see Section 12 for linearity results.
8. For LTE Band 5, LTE Band 7, LTE Band 41, and LTE Band 48, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. 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.

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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 a test configuration was > 0.4 W/kg for NR n77 C 1g evaluations, > 0.6 W/kg for NR n41 1g evaluations, and > 0.8 W/kg for NR n77 DoD, testing at the other channels was required for such test configurations.
3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 and Power Class 3 operations is 100.0 %. Per FCC Guidance, all SAR tests were performed using Power Class 2.

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WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

Bluetooth Notes

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 8.12 for the time domain plot and calculation for the duty factor of the device.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

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

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

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

Table 11-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS											
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)	
750	707.5	141500	NR Band n12, 15 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 3b	N/A	Top	0 mm	0.933	0.929	1.00
835	831.50	166300	NR Band n26, 20 MHz Bandwidth	DFT-s-OFDM, QPSK, 50 RB, 0 RB Offset	Ant 3b	N/A	Top	0 mm	0.930	0.921	1.01
1750	1770.00	132572	LTE Band 66, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Ant 3a	N/A	Right	0 mm	0.862	0.823	1.05
1900	1882.50	26365	LTE Band 25, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Ant 3a	N/A	Right	0 mm	0.894	0.893	1.00
2450	2480	78	2.4 GHz Bluetooth	FHSS	Ant 3a	1	Right	0 mm	0.961	0.960	1.00
2600	2549.50 2529.70	PCC: 40185 SCC: 39987	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 4	N/A	Back	0 mm	0.895	0.888	1.01
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant 4	N/A	Back	0 mm	0.892	0.789	1.13
3700	3624.99	641666	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 104 RB Offset	Ant 2a	N/A	Right	0 mm	0.837	0.727	1.15
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 135 RB, 0 RB Offset	Ant 2a	N/A	Right	0 mm	0.828	0.823	1.01
5250	5210	42	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 1b	29.3	Back	0 mm	1.020	1.000	1.02
5600	5530	106	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 1b	29.3	Back	0 mm	1.020	1.010	1.01
5750	5775	155	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 3a	29.3	Back	0 mm	1.110	1.050	1.06
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram		

11.2 Measurement Uncertainty

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

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12 ADDITIONAL TESTING PER FCC GUIDANCE

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

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

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.00	17.60
Measured Output Power (dBm)	15.12	16.55
Measured SAR (W/kg)	0.768	0.776
Measured Power (mW)	32.51	45.19
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	20.58	19.57
% deviation from expected linearity		6.27%

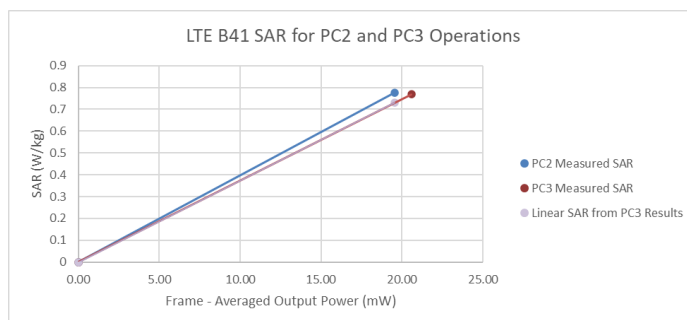


Figure 12-1
LTE Band 41 Body Linearity – Antenna 1b

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.00	17.60
Measured Output Power (dBm)	15.23	16.47
Measured SAR (W/kg)	0.825	0.766
Measured Power (mW)	33.34	44.36
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	21.11	19.21
% deviation from expected linearity		2.02%

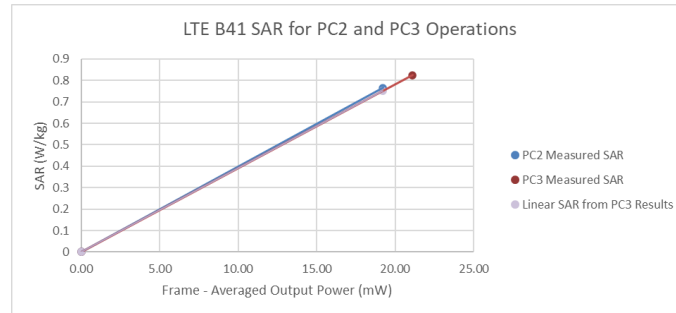


Figure 12-2
LTE Band 41 ULCA Body Linearity – Antenna 1b

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.20	17.80
Measured Output Power (dBm)	15.02	16.81
Measured SAR (W/kg)	0.716	0.711
Measured Power (mW)	31.77	47.97
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	20.11	20.77
% deviation from expected linearity		-3.87%

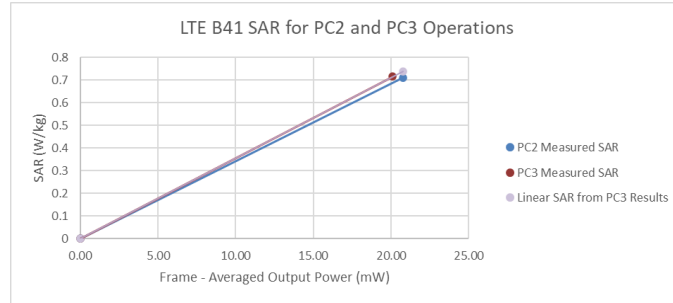


Figure 12-3
LTE Band 41 Body Linearity – Antenna 2b

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.20	17.80
Measured Output Power (dBm)	14.93	16.65
Measured SAR (W/kg)	0.701	0.698
Measured Power (mW)	31.12	46.24
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.70	20.02
% deviation from expected linearity		-2.04%

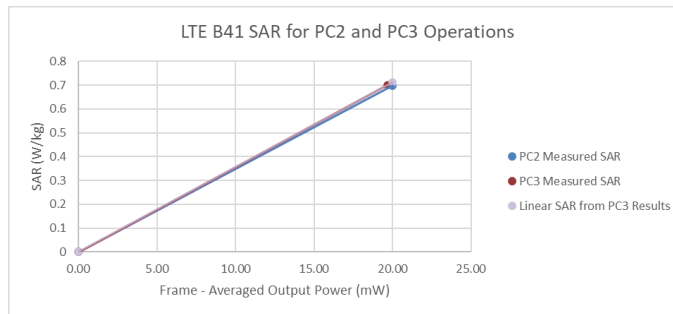


Figure 12-4
LTE Band 41 ULCA Body Linearity – Antenna 2b

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.30	15.90
Measured Output Power (dBm)	13.82	15.55
Measured SAR (W/kg)	0.886	0.857
Measured Power (mW)	24.10	35.89
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.25	15.54
% deviation from expected linearity		-5.06%

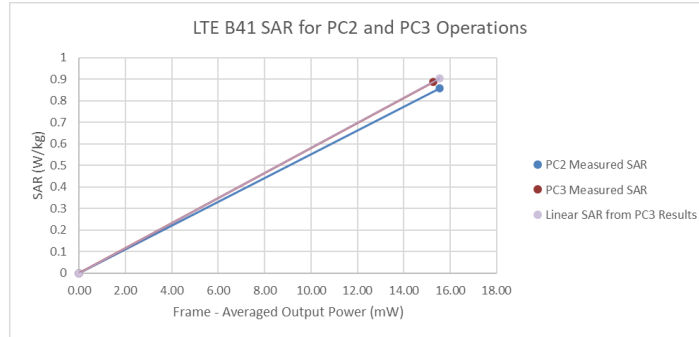


Figure 12-5
LTE Band 41 Body Linearity – Antenna 3a

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.30	15.90
Measured Output Power (dBm)	13.82	15.50
Measured SAR (W/kg)	0.889	0.883
Measured Power (mW)	24.10	35.48
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.25	15.36
% deviation from expected linearity		-1.38%

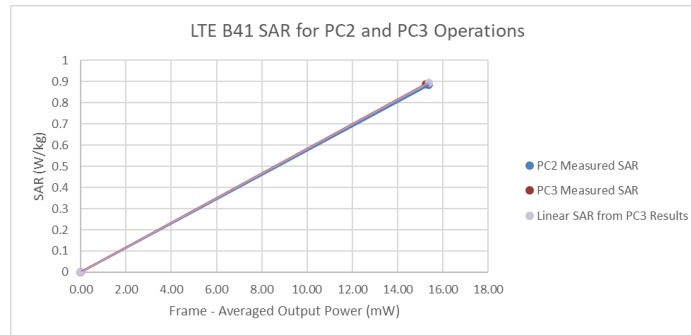


Figure 12-6
LTE Band 41 ULCA Body Linearity – Antenna 3a

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.70	15.30
Measured Output Power (dBm)	13.63	14.94
Measured SAR (W/kg)	0.864	0.831
Measured Power (mW)	23.07	31.19
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.60	13.50
% deviation from expected linearity		3.99%

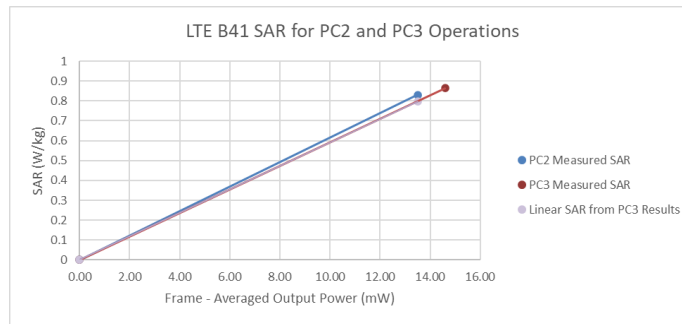


Figure 12-7
LTE Band 41 Body Linearity – Antenna 4

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.70	15.30
Measured Output Power (dBm)	13.60	15.00
Measured SAR (W/kg)	0.895	0.826
Measured Power (mW)	22.91	31.62
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.50	13.69
% deviation from expected linearity		-2.26%

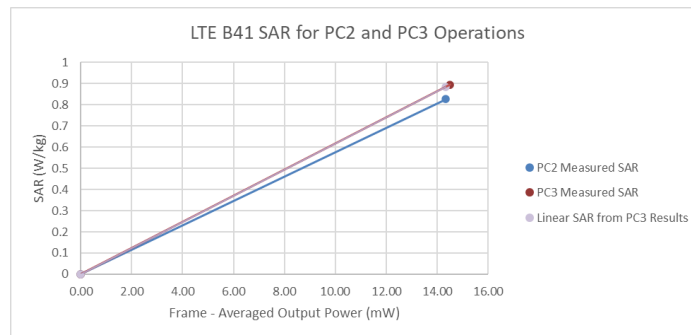


Figure 12-8
LTE Band 41 ULCA Body Linearity – Antenna 4

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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/25/2024	Annual	3/25/2025	MY47270002
Agilent	N5182A	MKG Vector Signal Generator	7/9/2024	Annual	7/9/2025	MY48180365
Agilent	N5182A	MKG Vector Signal Generator	3/7/2024	Annual	3/7/2025	MY47420603
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2024	Annual	1/10/2025	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MM6110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	MA2486A	Power Meter	7/25/2024	Annual	7/25/2025	1138001
Anritsu	MA2486A	Power Meter	6/24/2024	Annual	6/24/2025	1840005
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1736262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	12/15/2023	Annual	12/15/2024	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/15/2024	Annual	5/15/2025	6262150047
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/30/2024	Annual	5/30/2025	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	4/26/2024	Annual	4/26/2025	6201381794
Anritsu	MA24106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1827530
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Mini-Circuits	PWR-4GH5	USB Power Sensor	6/12/2024	Annual	6/12/2025	12001070013
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4040	Therm./Clock/Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./Clock/Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	566279	Therm./Clock/Humidity Monitor	2/16/2024	Biennial	2/16/2026	240140051
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N9020A	MKA Signal Analyzer	7/8/2024	Annual	7/8/2025	MY48010233
Agilent	N9020A	MKA Signal Analyzer	6/14/2024	Annual	6/14/2025	MY56470202
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/10/2024	Annual	7/10/2025	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2850
Narda	1772-S	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	4/27/2024	Biennial	4/27/2026	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/10/2024	Annual	1/10/2025	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/8/2024	Annual	7/8/2025	166818
SPEAG	DAK5-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MA1A	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MA1A	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MA1A	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAG	D750V3	750 MHz SAR Dipole	5/16/2022	Triennial	5/16/2025	1057
SPEAG	D885V2	885 MHz SAR Dipole	5/16/2022	Triennial	5/16/2025	449
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Triennial	5/10/2025	1082
SPEAG	D1750V2	1750 MHz SAR Dipole	9/6/2023	Biennial	9/6/2025	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2024	Annual	10/23/2025	54131
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2023	Biennial	8/8/2025	54180
SPEAG	D2300V2	2300 MHz SAR Dipole	3/11/2024	Annual	3/11/2025	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Annual	10/23/2025	921
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Triennial	5/11/2025	790
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Triennial	5/11/2025	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	6/10/2024	Annual	6/10/2025	1126
SPEAG	D3700V2	3700 MHz SAR Dipole	6/10/2024	Annual	6/10/2025	1097
SPEAG	D3800V2	3800 MHz SAR Dipole	10/19/2023	Biennial	10/19/2025	1056
SPEAG	D5GHV2	5 GHz SAR Dipole	3/12/2024	Annual	3/12/2025	1123
SPEAG	D5GHV2	5 GHz SAR Dipole	6/12/2024	Annual	6/12/2025	1163
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	534
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2024	Annual	4/9/2025	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2024	Annual	4/9/2025	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	1683
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	1676
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/8/2024	Annual	8/8/2025	1681
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2024	Annual	4/10/2025	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	1646
SPEAG	EX3DV4	SAR Probe	9/4/2024	Annual	9/4/2025	7668
SPEAG	EX3DV4	SAR Probe	4/16/2024	Annual	4/16/2025	7357
SPEAG	EX3DV4	SAR Probe	4/16/2024	Annual	4/16/2025	7532
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7360
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7552
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7416
SPEAG	EX3DV4	SAR Probe	4/16/2024	Annual	4/16/2025	7546
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7421
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7682
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	7639
SPEAG	EX3DV4	SAR Probe	9/12/2024	Annual	9/12/2025	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.

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14 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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

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15 CONCLUSION

15.1 Measurement Conclusion

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

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

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