



ELEMENT MATERIALS TECHNOLOGY

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RF EXPOSURE REPORT

Applicant Name:

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

Date of Testing:

06/23/2025 – 07/22/2025

Test Report Issue Date:

08/21/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2503270037-18.BCG-R1

FCC ID:
BCG-A3328
APPLICANT:
APPLE, INC.
DUT Type:

Watch

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

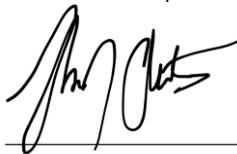
A3328, A3329

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	10g Extremity (W/kg)
PCT	LTE Band 7/1	686.5 - 695.5 MHz	<0.1	0.52
PCT	LTE Band 12	699.7 - 715.5 MHz	<0.1	0.56
PCT	LTE Band 13	778.5 - 784.5 MHz	<0.1	0.46
PCT	LTE Band 14	795.5 - 799.5 MHz	<0.1	0.50
PCT	LTE Band 17	800.0 - 805.0 MHz	<0.1	0.44
PCT	LTE Band 5 (Cell)	824.7 - 845.5 MHz	<0.1	0.37
PCT	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.49	0.12
PCT	NR Band 11 (Cell)	2575.5 - 2621.5 MHz	<0.1	0.52
PCT	NR Band 25 (PC5)	1885.7 - 1914.3 MHz	0.41	0.12
PCT	NR Band 2 (PC5)	1885.7 - 1920.3 MHz	0.40	0.12
PCT	NR Band 40 (Cell)	2425.5 - 2485.5 MHz	0.62	0.22
PCT	LTE Band 41	2498.5 - 2697.5 MHz	0.69	0.15
PCT	NR Band 10 (Cell)	2620.5 - 2657.5 MHz	0.69	0.15
PCT	NR Band 11/12	701.5 - 713.5 MHz	<0.1	0.60
PCT	NR Band 11/14	790.5 - 795.5 MHz	<0.1	0.53
PCT	NR Band 11/12 (Cell)	2620.5 - 2657.5 MHz	<0.1	0.60
PCT	NR Band 16 (Cell)	824.7 - 845.5 MHz	<0.1	0.42
PCT	NR Band 46 (AWS)	1712.5 - 1777.5 MHz	0.41	0.10
PCT	NR Band 47 (Cell)	2575.5 - 2621.5 MHz	0.41	0.12
PCT	NR Band 17	2592.5 - 2597.5 MHz	0.87	0.23
PCT	NR Band 11	2620.5 - 2657.5 MHz	1.05	0.23
DTS	2.4 GHz WiFi	2412 - 2472 MHz	0.36	0.01
DSSOTS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.36	0.01
D2D	Simultaneous SAR per KDB 699783 D01v1R0B3		1.42	0.62

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 watch 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 0 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 Ortanze
 Executive Vice President


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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Voice/Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Voice/Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Voice/Data	1852.5 - 1907.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

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1.2 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth operations. When Bluetooth is operating simultaneously with the Cellular antenna, the output power is permanently reduced. Per manufacturer, SAR evaluations at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

1.3 Nominal and Maximum Output Power Specifications

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

1.3.1

Maximum Output Power – LTE Mode

Mode / Band		Modulated Average Output Power (in dBm)
LTE FDD Band 71	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 12	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 17	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 13	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 14	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 26	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 5	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 4	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 66	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 2	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 25	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 7	Max allowed power	25.20
	Nominal	24.00
LTE TDD Band 41	Max allowed power	25.20
	Nominal	24.00

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1.3.2

Maximum Output Power – NR Mode

Mode / Band		Modulated Average Output Power (in dBm)
NR FDD Band n71	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n12	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n14	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n26	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n5	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n66	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n2	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n25	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n7	Max allowed power	25.20
	Nominal	24.00
NR TDD Band n41	Max allowed power	25.20
	Nominal	24.00

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1.3.3

Maximum Output Power – WiFi Mode

Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	1	19.00	18.00	17.00	16.00	17.00	16.00
		2	19.00	18.00	18.50	17.50	18.50	17.50
		3	19.00	18.00	18.50	17.50	18.50	17.50
		4	19.00	18.00	18.50	17.50	18.50	17.50
		5	19.00	18.00	18.50	17.50	18.50	17.50
		6	19.00	18.00	18.50	17.50	18.50	17.50
		7	19.00	18.00	18.50	17.50	18.50	17.50
		8	19.00	18.00	18.50	17.50	18.50	17.50
		9	19.00	18.00	18.50	17.50	18.50	17.50
		10	19.00	18.00	18.50	17.50	18.50	17.50
		11	19.00	18.00	15.50	14.50	15.50	14.50
		12	19.00	18.00	15.00	14.00	15.00	14.00
		13	18.00	17.00	5.50	4.50	5.50	4.50

1.3.4

Maximum Output Power – Bluetooth Mode

Mode / Band		Modulated Average - Single Tx Chain (dBm)	
Bluetooth BDR/LE		Maximum	
		Nominal	
Bluetooth EDR		Maximum	
		Nominal	
Bluetooth HDR		Maximum	
		Nominal	

1.4 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

1.5 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

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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 3.1.8 procedures.

Table 1-1
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	Cellular + 2.4 GHz WI-FI + NFC*	Yes*	Yes
2	Cellular + 2.4 GHz Bluetooth + NFC*	Yes*	Yes

Note: *NFC was evaluated for extremity based on expected usage conditions

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth cannot transmit simultaneously.
2. Licensed modes cannot transmit simultaneously.
3. This device supports VOLTE.
4. This device supports VOWIFI.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

This device supports channel 1-13 for 2.4 GHz WLAN. However, due to the reduced output power for channels 12 and 13, channels 1, 6, and 11 were considered for SAR testing per KDB 248227 D01v02r02.

(B) Licensed Transmitter(s)

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/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 is limited to 27 RB on the uplink for 16QAM modulation for LTE. Additional measurements were evaluated to support SAR test exclusion for 16 QAM as described in Section 7.5.4.

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1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance, Wrist-worn Device Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- IEEE 1528-2013
- April 2019 TCBC Workshop Notes
- SPEAG DASY6 System Handbook

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 Device Housing Types and Wrist Band Types

This device has one housing type that were evaluated independently for SAR: Aluminum. The device can also be used with different wristband accessories. The non-metallic wrist accessory, sport band, was evaluated for all exposure conditions. The available metallic wrist accessories, metal links band and metal loop band, were additionally evaluated.

1.11 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2503270037-17.BCG
RF Exposure Compliance Summary Report	1C2503270037-20.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz) LTE Band 12 (698.7 - 715.3 MHz) LTE Band 17 (705.5 - 713.5 MHz) LTE Band 13 (779.5 - 784.5 MHz) LTE Band 14 (790.5 - 795.5 MHz) LTE Band 26 (Cell) (814.7 - 848.3 MHz) LTE Band 5 (Cell) (824.7 - 848.3 MHz) LTE Band 66 (AWS) (1710.7 - 1779.3 MHz) LTE Band 4 (AWS) (1710.7 - 1754.3 MHz) LTE Band 25 (PCS) (1850.7 - 1914.3 MHz) LTE Band 2 (PCS) (1850.7 - 1909.3 MHz) LTE Band 7 (2502.5 - 2567.5 MHz) LTE Band 41 (2498.5 - 2687.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 17: 5 MHz, 10 MHz LTE Band 13: 5 MHz, 10 MHz LTE Band 14: 5 MHz, 10 MHz LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 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 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)		
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)		
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)		
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)		
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)		
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)		
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)		
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)		
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)		
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A		
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)		
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A		
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)		
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)		
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)		
LTE Band 5 (Cell): 1.4 MHz	819 (26740)	831.5 (26865)	844 (26990)		
LTE Band 5 (Cell): 3 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)		
LTE Band 5 (Cell): 5 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)		
LTE Band 5 (Cell): 10 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)		
LTE Band 66 (AWS): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)		
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132685)		
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132857)		
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)		
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)		
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)		
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)		
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19857)	1732.5 (20175)	1764.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1762.5 (20375)		
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)		
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)		
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)		
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)		
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)		
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)		
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)		
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)		
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)		
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)		
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)		
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)		
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)		
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)		
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	1				
Modulations Supported in UL	QPSK, 16QAM				
LTE MPR Permanently Implemented per	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Additional Information	This device does not support full CA features on 3GPP Release 17. All uplink communications are identical to the Release 17 Specifications. The following LTE Release 17 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eCIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Watch				
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz) NR Band n12 (701.5 - 713.5 MHz) NR Band n14 (790.5 - 795.5 MHz) NR Band n26 (Cell) (816.5 - 846.5 MHz) NR Band n5 (Cell) (826.5 - 846.5 MHz) NR Band n6 (AWS) (1712.5 - 1777.5 MHz) NR Band n25 (PCS) (1852.5 - 1912.5 MHz) NR Band n2 (PCS) (1852.5 - 1907.5 MHz) NR Band n7 (2502.5 - 2567.5 MHz) NR Band n41 (2501.01 - 2685 MHz)				
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n12: 5 MHz, 10 MHz, 15 MHz NR Band n14: 5 MHz, 10 MHz NR Band n26 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n6 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n41: 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)		693 (138600)
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)
NR Band n14: 10 MHz	N/A		793 (158600)		N/A
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)
NR Band n26 (Cell): 15 MHz	821.5 (164300)		831.5 (166300)		841.5 (168300)
NR Band n26 (Cell): 20 MHz	824 (164800)		831.5 (166300)		839 (167800)
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)
NR Band n6 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)
NR Band n6 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)
NR Band n6 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)
NR Band n6 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)	2637.75 (527550)	2682.48 (536496)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)	2679.99 (535998)
SCS for NR Band n71/n12/n14/n26/n5/n66/n25/n2/n7	15 kHz				
SCS for NR Band n41	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM CP-OFDM: QPSK, 16QAM, 64QAM				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				

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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:

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).
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). 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 ($10 \times 10 \times 10$) 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.

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{area}, \Delta y_{area}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{zoom}, \Delta y_{zoom}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid		Graded Grid	
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)^*$	$\Delta z_{zoom}(n>1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 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 $\delta = 0.02$. Additionally, a manufacturer provided low-loss foam was used to position the device for head SAR evaluations.

5.2 Positioning for Head

Devices that are designed to be worn on the wrist may operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. When next-to-mouth SAR evaluation is required, the device is positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The device is evaluated with wrist bands strapped together to represent normal use conditions.

5.3 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet, and ankles may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. When extremity SAR evaluation is required, the device is evaluated with the back of the device touching the flat phantom, which is filled with head tissue-equivalent medium. The device was evaluated with Sport wristband unstrapped and touching the phantom. For Metal Loop and Metal Links wristbands, the device was evaluated with wristbands strapped and the distance between wristbands and the phantom was minimized to represent the spacing created by actual use conditions.

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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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6.4 RF Exposure Limits for Frequencies Above 6 GHz

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

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

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

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

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

7.2 SAR Measurement Conditions for LTE

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

7.2.1 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.

7.2.2 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.

7.2.3 A-MPR

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

7.2.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with the highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.

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- 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.
- e. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. For 16QAM configurations with 10 MHz, 15 MHz and 20 MHz bandwidths, LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") with offsets to upper edge, middle, and lower edge of the channel are additionally measured for both QPSK and 16QAM modulations to support comparison and SAR test exclusion per Section 5.2.4 and 5.3.

7.2.5 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.

7.3 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.

7.3.1 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 a 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.3.2 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 $> 0.8 \text{ W/kg}$, SAR is required for that position using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel, i.e., all channels require testing.

2.4 GHz 802.11 g/n 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 $> 1.2 \text{ W/kg}$. 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.

7.3.3 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, and 802.11n 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 or 802.11g then 802.11n, is used for SAR measurement. 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.

7.3.4 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 $\leq 0.8 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$ 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 7.3.3). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.5 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 $\leq 1.2 \text{ W/kg}$, 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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8 RF CONDUCTED POWERS

8.1 LTE Conducted Powers

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 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.

8.1.1

LTE Band 71

Table 8-1

LTE Band 71 Measured Power - 20 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 71 20 MHz Bandwidth		
			Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
QPSK	1	0	24.85	0	0
	1	50	24.83		0
	1	99	24.70		0
	50	0	23.86	0-1	1
	50	25	23.83		1
	50	50	23.75		1
	100	0	23.79		1
	15	0	24.88	0-1	0
	15	42	24.87		0
	15	85	24.74		0
	27	0	23.81	0-2	1
	27	37	23.80		1
	27	73	23.68		1
16QAM	1	0	23.70	0-2	1
	1	50	23.67		1
	1	99	23.69		1
	15	0	23.79	0-3	1
	15	42	23.78		1
	15	85	23.74		1
	27	0	22.94	0-5	2
	27	37	22.91		2
	27	73	22.91		2

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8.1.2

LTE Band 12

Table 8-2

LTE Band 12 Measured Power - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.85	0	0
	1	25	24.82		0
	1	49	24.79		0
	25	0	23.87	0-1	1
	25	12	23.82		1
	25	25	23.81		1
	50	0	23.83		1
	15	0	23.84	0-1	1
	15	17	23.76		1
	15	35	23.78		1
	27	0	23.83	0-2	1
	27	12	23.77		1
	27	23	23.77		1
16QAM	1	0	23.74	0-2	1
	1	25	23.68		1
	1	49	23.69		1
	25	0	22.94	0-3	2
	25	12	22.90		2
	25	25	22.91		2
	15	0	22.90	0-5	2
	15	17	22.85		2
	15	35	22.86		2
	27	0	22.82		2
	27	12	22.79		2
	27	23	22.75		2

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8.1.3

LTE Band 13

Table 8-3

LTE Band 13 Measured Power - 10 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 13 10 MHz Bandwidth		MPR Allowed per 3GPP [dB]	MPR [dB]
			Mid Channel	23230 (782.0 MHz)		
			Conducted Power [dBm]			
QPSK	1	0	24.91	0	0	0
	1	25	24.90			0
	1	49	24.89			0
	25	0	23.87	0-1	1	1
	25	12	23.86			1
	25	25	23.90			1
	50	0	23.88			1
	15	0	23.87	0-1	1	1
	15	17	23.84			1
	15	35	23.89			1
	27	0	23.82	0-2	1	1
	27	12	23.83			1
	27	23	23.86			1
16QAM	1	0	23.70	0-2	1	1
	1	25	23.70			1
	1	49	23.72			1
	25	0	22.83	0-3	2	2
	25	12	22.84			2
	25	25	22.87			2
	15	0	22.82			2
	15	17	22.80	0-5	2	2
	15	35	22.88			2
	27	0	22.70			2
	27	12	22.73			2
	27	23	22.75			2

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8.1.4

LTE Band 14

Table 8-4

LTE Band 14 Measured Power - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.87	0	0
	1	25	24.89		0
	1	49	24.88		0
	25	0	23.82	0-1	1
	25	12	23.81		1
	25	25	23.83		1
	50	0	23.82		1
	15	0	23.81	0-1	1
	15	17	23.76		1
	15	35	23.83		1
	27	0	23.78	0-2	1
	27	12	23.76		1
	27	23	23.80		1
16QAM	1	0	23.80	0-2	1
	1	25	23.81		1
	1	49	23.92		1
	25	0	23.06	0-3	2
	25	12	23.07		2
	25	25	23.08		2
	15	0	23.04	0-5	2
	15	17	23.03		2
	15	35	23.09		2
	27	0	22.95		2
	27	12	22.95		2
	27	23	22.98		2

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8.1.5

LTE Band 26

Table 8-5
LTE Band 26 (Cell) Measured Power - 10 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 26 (Cell) 10 MHz Bandwidth			MPR Allowed per 3GPP [dB]	MPR [dB]
			Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.94	24.83	24.80	0	0
	1	25	24.85	24.81	24.76		0
	1	49	24.88	24.82	24.79		0
	25	0	23.90	23.88	23.77	0-1	1
	25	12	23.85	23.83	23.71		1
	25	25	23.85	23.84	23.70		1
	50	0	23.87	23.83	23.72	0-1	1
	15	0	23.89	23.83	23.73		1
	15	17	23.80	23.78	23.71		1
	15	35	23.84	23.80	23.74	0-2	1
	27	0	23.85	23.83	23.73		1
	27	12	23.80	23.78	23.69		1
	27	23	23.81	23.79	23.68	0-5	1
16QAM	1	0	23.88	23.64	23.40	0-2	1
	1	25	23.86	23.60	23.36		1
	1	49	23.92	23.62	23.42		1
	25	0	23.39	23.40	23.26	0-3	2
	25	12	23.38	23.35	23.21		2
	25	25	23.39	23.35	23.24		2
	15	0	23.29	23.28	23.11	0-5	2
	15	17	23.25	23.29	23.09		2
	15	35	23.27	23.31	23.10		2
	27	0	23.29	23.28	23.13		2
	27	12	23.26	23.24	23.12		2
	27	23	23.26	23.23	23.10		2

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8.1.6

LTE Band 5

Table 8-6
LTE Band 5 (Cell) Measured Power - 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	24.84	0	0
	1	25	24.85		0
	1	49	24.80		0
	25	0	23.92	0-1	1
	25	12	23.91		1
	25	25	23.90		1
	50	0	23.91		1
	15	0	23.91	0-1	1
	15	17	23.86		1
	15	35	23.88		1
	27	0	23.87	0-2	1
	27	12	23.86		1
	27	23	23.87		1
16QAM	1	0	24.18	0-2	1
	1	25	24.15		1
	1	49	24.14		1
	25	0	23.38	0-3	2
	25	12	23.30		2
	25	25	23.28		2
	15	0	23.34	0-5	2
	15	17	23.31		2
	15	35	23.35		2
	27	0	23.25		2
	27	12	23.24		2
	27	23	23.23		2

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8.1.7

LTE Band 66

Table 8-7
LTE Band 66 (AWS) Measured Power - 20 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 66 (AWS) 20 MHz Bandwidth			MPR Allowed per 3GPP [dB]	MPR [dB]
			Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.24	24.15	24.22	0	0
	1	50	24.20	24.22	24.19		0
	1	99	24.22	24.06	24.07		0
	50	0	23.77	23.72	23.66	0-1	1
	50	25	23.73	23.73	23.61		1
	50	50	23.74	23.69	23.53		1
	100	0	23.76	23.71	23.60		1
	15	0	24.23	24.22	24.16	0-1	0
	15	42	24.24	24.27	24.11		0
	15	85	24.22	24.13	23.99		0
	27	0	23.71	23.70	23.62	0-2	1
	27	37	23.70	23.74	23.58		1
	27	73	23.70	23.61	23.50		1
16QAM	1	0	23.41	23.74	23.71	0-2	1
	1	50	23.44	23.73	23.66		1
	1	99	23.45	23.71	23.65		1
	15	0	23.51	23.67	23.46	0-3	1
	15	42	23.56	23.76	23.41		1
	15	85	23.55	23.61	23.28		1
	27	0	22.68	22.56	22.38	0-5	2
	27	37	22.67	22.59	22.34		2
	27	73	22.66	22.45	22.22		2

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8.1.8

LTE Band 25

Table 8-8
LTE Band 25 (PCS) Measured Power - 20 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 25 (PCS) 20 MHz Bandwidth			MPR Allowed per 3GPP [dB]	MPR [dB]
			Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.98	24.35	24.12	0	0
	1	50	23.88	24.43	24.25		0
	1	99	24.18	24.28	23.89		0
	50	0	23.58	23.64	23.54	0-1	1
	50	25	23.60	23.65	23.58		1
	50	50	23.64	23.58	23.52		1
	100	0	23.62	23.61	23.55		1
	15	0	24.19	24.28	24.15	0-1	0
	15	42	24.30	24.33	24.29		0
	15	85	24.29	24.29	24.22		0
	27	0	23.42	23.58	23.48	0-2	1
	27	37	23.53	23.62	23.58		1
	27	73	23.54	23.56	23.52		1
16QAM	1	0	23.51	23.56	23.38	0-2	1
	1	50	23.54	23.61	23.40		1
	1	99	23.52	23.59	23.39		1
	15	0	23.45	23.55	23.35	0-3	1
	15	42	23.44	23.54	23.39		1
	15	85	23.48	23.58	23.34		1
	27	0	22.42	22.58	22.40	0-5	2
	27	37	22.43	22.53	22.38		2
	27	73	22.40	22.51	22.37		2

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8.1.9

LTE Band 7
Table 8-9
LTE Band 7 Measured Power - 20 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 7 20 MHz Bandwidth			MPR Allowed per 3GPP [dB]	MPR [dB]
			Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.03	24.10	24.06	0	0
	1	50	24.06	24.21	24.28		0
	1	99	24.10	24.16	24.18		0
	50	0	23.58	23.66	23.63	0-1	1
	50	25	23.60	23.68	23.69		1
	50	50	23.57	23.67	23.63		1
	100	0	23.59	23.68	23.67		1
	15	0	24.06	24.10	24.07	0-1	0
	15	42	24.07	24.22	24.23		0
	15	85	24.09	24.16	24.18		0
	27	0	23.51	23.61	23.59	0-2	1
	27	37	23.55	23.66	23.70		1
	27	73	23.56	23.64	23.62		1
16QAM	1	0	23.92	23.69	23.24	0-2	1
	1	50	23.75	23.63	23.31		1
	1	99	23.96	23.68	23.40		1
	15	0	23.66	23.65	23.72	0-3	1
	15	42	23.59	23.73	23.76		1
	15	85	23.64	23.75	23.82		1
	27	0	22.66	22.70	22.70	0-5	2
	27	37	22.58	22.67	22.74		2
	27	73	22.61	22.72	22.78		2

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8.1.10

LTE Band 41

Table 8-10

LTE Band 41 Measured Power - 20 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 41 20 MHz Bandwidth					MPR Allowed per 3GPP [dB]	MPR [dB]
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
			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	24.50	24.48	24.48	24.40	24.39	0	0
	1	50	24.56	24.54	24.51	24.49	24.47		0
	1	99	24.50	24.48	24.37	24.43	24.37		0
	50	0	23.51	23.54	23.52	23.45	23.45	0-1	1
	50	25	23.56	23.55	23.53	23.48	23.46		1
	50	50	23.54	23.55	23.49	23.46	23.42		1
	100	0	23.54	23.54	23.50	23.46	23.47	0-1	1
	15	0	24.55	24.55	24.55	24.40	24.47		0
	15	42	24.59	24.60	24.56	24.49	24.48		0
	15	85	24.52	24.53	24.48	24.43	24.38		0
	27	0	23.50	23.52	23.51	23.38	23.37	0-2	1
	27	37	23.54	23.55	23.49	23.43	23.39		1
	27	73	23.51	23.51	23.43	23.40	23.35		1
16QAM	1	0	23.50	23.61	23.54	23.45	23.47	0-2	1
	1	50	23.75	23.70	23.70	23.50	23.54		1
	1	99	23.63	23.63	23.54	23.52	23.44		1
	15	0	23.35	23.40	23.51	23.26	23.25	0-3	1
	15	42	23.55	23.47	23.55	23.33	23.34		1
	15	85	23.47	23.42	23.47	23.21	23.30		1
	27	0	22.45	22.46	22.46	22.24	22.36	0-5	2
	27	37	22.50	22.52	22.52	22.31	22.39		2
	27	73	22.46	22.48	22.44	22.30	22.37		2



Figure 8-1
Power Measurement Setup

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8.2 NR Conducted Powers

8.2.1 NR Band n71

Table 8-11
NR Band n71 Measured Power - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.11	0	0.0
	1	53	24.05		0.0
	1	104	23.86		0.0
	50	0	23.55	0-1	1.0
	50	28	24.10	0	0.0
	50	56	23.47	0-1	1.0
	100	0	23.53		1.0
DFT-s-OFDM 16QAM	1	1	23.21	0-1	1.0
CP-OFDM QPSK	1	1	23.03	0-1.5	1.5

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8.2.1

NR Band n12

Table 8-12
NR Band n12 Measured Power - 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)		
DFT-s-OFDM QPSK	1	1	24.90	0	0.0
	1	40	24.91		0.0
	1	77	24.97		0.0
	36	0	24.52	0-1	1.0
	36	22	25.03	0	0.0
	36	43	24.47	0-1	1.0
	75	0	24.48		1.0
DFT-s-OFDM 16QAM	1	1	24.23	0-1	1.0
CP-OFDM QPSK	1	1	24.03	0-1.5	1.5

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NR Band n14

Table 8-13
NR Band n14 Measured Power - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth				
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]
			158600 (793 MHz)	
DFT-s-OFDM QPSK	1	1	24.54	0
	1	26	24.45	
	1	50	24.48	
	25	0	23.52	0-1
	25	14	24.45	0
	25	27	23.46	0-1
	50	0	23.44	
DFT-s-OFDM 16QAM	1	1	23.35	0-1
CP-OFDM QPSK	1	1	22.94	0-1.5

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NR Band n26

Table 8-14
NR Band n26 Measured Power - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth				
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]
			166300 (831.5 MHz)	
DFT-s-OFDM QPSK	1	1	24.10	0
	1	53	24.00	
	1	104	23.85	
	50	0	23.50	0-1
	50	28	24.01	0
	50	56	23.97	0-1
	100	0	23.51	
DFT-s-OFDM 16QAM	1	1	23.23	0-1
CP-OFDM QPSK	1	1	22.92	0-1.5

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NR Band n5

Table 8-15
NR Band n5 Measured Power - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth				
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]
			167300 (836.5 MHz)	
DFT-s-OFDM QPSK	1	1	24.47	0
	1	53	24.43	
	1	104	24.37	
	50	0	23.51	0-1
	50	28	24.47	0
	50	56	23.44	0-1
	100	0	23.48	
DFT-s-OFDM 16QAM	1	1	23.12	0-1
CP-OFDM QPSK	1	1	23.05	0-1.5
				1.5

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8.2.5

NR Band n66

Table 8-16
NR Band n66 Measured Power - 20 MHz Bandwidth

NR Band n66							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
Conducted Power [dBm]							
DFT-s-OFDM QPSK	1	1	23.98	24.04	23.87	0	0.0
	1	53	24.04	23.97	23.62		0.0
	1	104	24.12	23.94	23.82		0.0
	50	0	23.07	23.05	22.79	0-1	1.0
	50	28	24.11	24.07	23.77	0	0.0
	50	56	23.15	23.01	22.74	0-1	1.0
	100	0	23.09	23.04	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.84	22.87	22.61	0-1	1.0
CP-OFDM QPSK	1	1	22.57	22.51	22.42	0-1.5	1.5

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8.2.6

NR Band n25

Table 8-17
NR Band n25 Measured Power - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
Conducted Power [dBm]							
DFT-s-OFDM QPSK	1	1	24.11	24.03	23.87	0	0.0
	1	53	24.13	24.01	24.00		0.0
	1	104	24.09	23.90	23.84		0.0
	50	0	23.39	23.13	22.91	0-1	1.0
	50	28	24.27	24.08	23.99	0	0.0
	50	56	23.25	23.01	22.91	0-1	1.0
	100	0	23.25	23.07	22.91		1.0
DFT-s-OFDM 16QAM	1	1	23.02	22.79	22.74	0-1	1.0
CP-OFDM QPSK	1	1	22.76	22.58	22.47	0-1.5	1.5

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NR Band n7

Table 8-18
NR Band n7 Measured Power - 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.27	24.07	24.17	0	0.0
	1	53	24.17	24.28	24.21		0.0
	1	104	24.22	24.09	24.22		0.0
	50	0	23.45	23.12	23.25	0-1	1.0
	50	28	24.25	24.32	24.27	0	0.0
	50	56	23.12	23.14	23.21	0-1	1.0
	100	0	23.10	23.12	23.07		1.0
DFT-s-OFDM 16QAM	1	1	23.08	23.13	23.01	0-1	1.0
CP-OFDM QPSK	1	1	23.02	22.77	22.75	0-1.5	1.5

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NR Band n41

Table 8-19
NR Band n41 Measured Power - 20 MHz Bandwidth

			NR Band n41 20 MHz Bandwidth					MPR Allowed per 3GPP [dB]	MPR [dB]		
Modulation	RB Size	RB Offset	Channel								
			501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)				
Conducted Power [dBm]											
DFT-s-OFDM QPSK	1	1	24.27	24.17	24.11	24.03	23.81	0	0.0		
	1	26	24.22	24.19	24.23	24.10	23.84		0.0		
	1	49	24.16	24.07	23.97	23.98	23.92		0.0		
	25	0	23.27	23.15	23.07	23.01	22.96	0-1	1.0		
	25	13	24.20	24.18	23.99	23.87	23.56	0	0.0		
	25	26	23.14	23.17	23.04	22.91	22.76	0-1	1.0		
	50	0	23.15	23.18	22.95	22.76	22.67		1.0		
DFT-s-OFDM 16QAM	1	1	23.14	22.99	22.91	22.78	22.61	0-1	1.0		
CP-OFDM QPSK	1	1	22.87	22.77	22.73	22.63	22.53	0-1.5	1.5		

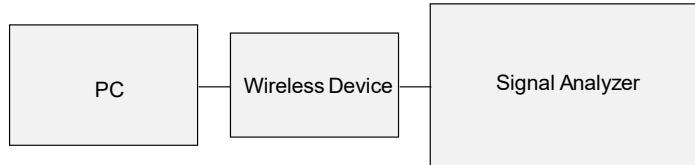


Figure 8-2
Power Measurement Setup

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8.3 WLAN Conducted Powers

Table 8-20
2.4 GHz WLAN Maximum Average RF Power

2.4GHz WIFI (20MHz 802.11b SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	18.22
2437	6	17.81
2462	11	18.10
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.78
2437	6	17.06
2462	11	14.44
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	15.84
2437	6	17.09
2462	11	14.51

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

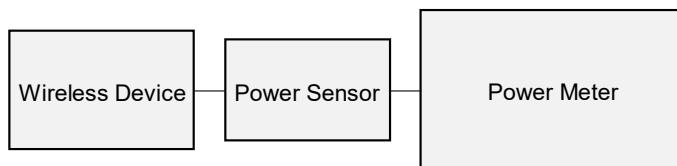


Figure 8-3
Power Measurement Setup

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8.4 Bluetooth Conducted Powers

Table 8-21
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.16	41.305
2441	GFSK	1.0	39	16.20	41.687
2480	GFSK	1.0	78	15.60	36.308

Note 1: Bluetooth was evaluated with a test mode with 100% transmission duty factor.

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
7/11/2025	30 Head	24.0	4	0.756	57.517	0.750	55.000	0.80%	4.58%
			6	0.756	56.718	0.750	55.000	0.80%	3.12%
			12	0.757	54.997	0.750	55.000	0.85%	-0.01%
			13	0.757	54.894	0.750	55.000	0.85%	-0.19%
			14	0.757	54.831	0.750	55.000	0.93%	-0.31%
			30	0.760	54.238	0.750	55.000	1.33%	-1.59%
			60	0.765	53.651	0.753	54.325	1.59%	-1.24%
			65	0.766	53.454	0.753	54.213	1.73%	-1.40%
			150	0.794	51.770	0.760	52.300	4.47%	-1.01%
			680	0.876	41.836	0.888	42.305	-1.35%	-1.11%
7/7/2025	750 Head	23.6	695	0.880	41.802	0.889	42.227	-1.00%	-1.01%
			700	0.882	41.793	0.889	42.201	-0.83%	-0.97%
			710	0.885	41.769	0.890	42.149	-0.61%	-0.90%
			725	0.890	41.720	0.891	42.071	-0.15%	-0.84%
			750	0.900	41.623	0.894	41.942	0.62%	-0.76%
			770	0.900	41.553	0.895	41.838	1.27%	-0.68%
			785	0.911	41.512	0.896	41.760	1.65%	-0.59%
			800	0.915	41.469	0.897	41.682	2.01%	-0.51%
			680	0.870	40.563	0.888	42.305	-2.03%	-4.12%
			695	0.875	40.519	0.889	42.227	-1.57%	-4.04%
7/7/2025	750 Head	20.8	700	0.877	40.498	0.889	42.201	-1.35%	-4.04%
			710	0.881	40.457	0.890	42.149	-1.01%	-4.01%
			725	0.888	40.415	0.891	42.071	-0.56%	-3.94%
			750	0.891	40.370	0.894	41.942	0.00%	-3.75%
			770	0.899	40.335	0.895	41.838	0.45%	-3.59%
			785	0.904	40.300	0.896	41.760	0.89%	-3.50%
			800	0.911	40.254	0.897	41.682	1.56%	-3.43%
			680	0.893	40.625	0.888	42.305	0.56%	-3.97%
			695	0.899	40.579	0.889	42.227	1.12%	-3.90%
			700	0.900	40.562	0.889	42.201	1.24%	-3.88%
7/11/2025	750 Head	22.0	710	0.900	40.535	0.890	42.149	1.57%	-3.83%
			725	0.900	40.499	0.891	42.071	1.91%	-3.74%
			750	0.915	40.395	0.894	41.942	2.35%	-3.69%
			770	0.921	40.318	0.895	41.838	2.91%	-3.63%
			785	0.927	40.289	0.896	41.760	3.46%	-3.52%
			800	0.934	40.262	0.897	41.682	4.12%	-3.41%
			700	0.900	40.562	0.887	42.167	1.47%	-3.81%
			680	0.852	40.982	0.888	42.305	-4.05%	-3.13%
			695	0.858	40.933	0.888	42.227	-3.49%	-3.06%
			700	0.859	40.915	0.888	42.201	-3.37%	-3.05%
7/13/2025	750 Head	20.1	710	0.863	40.883	0.890	42.149	-3.03%	-3.00%
			725	0.868	40.841	0.891	42.071	-2.58%	-2.92%
			750	0.875	40.762	0.894	41.942	-2.13%	-2.81%
			770	0.882	40.692	0.895	41.838	-1.45%	-2.74%
			785	0.887	40.650	0.896	41.760	-1.00%	-2.66%
			800	0.893	40.617	0.897	41.682	-0.45%	-2.56%
			680	0.871	41.506	0.888	42.305	-1.91%	-1.89%
			695	0.876	41.449	0.889	42.227	-1.46%	-1.84%
			700	0.877	41.425	0.889	42.201	-1.35%	-1.84%
			710	0.881	41.397	0.890	42.149	-1.01%	-1.78%
7/15/2025	750 Head	21.0	725	0.887	41.346	0.891	42.071	-0.45%	-1.72%
			750	0.895	41.270	0.892	41.942	0.21%	-1.60%
			770	0.901	41.188	0.895	41.838	0.67%	-1.55%
			785	0.906	41.142	0.896	41.760	1.12%	-1.48%
			800	0.912	41.100	0.897	41.682	1.67%	-1.40%
			680	0.853	41.023	0.888	42.305	-3.94%	-3.03%
			695	0.858	41.009	0.889	42.227	-3.49%	-2.88%
			700	0.860	41.006	0.889	42.201	-3.26%	-2.83%
			710	0.862	41.002	0.890	42.149	-3.15%	-2.72%
			725	0.866	40.982	0.891	42.071	-2.81%	-2.59%
7/17/2025	750 Head	24.0	750	0.873	40.874	0.891	41.942	-2.35%	-2.55%
			770	0.880	40.764	0.895	41.838	-1.68%	-2.57%
			785	0.885	40.704	0.896	41.760	-1.23%	-2.53%
			800	0.890	40.677	0.897	41.682	-0.78%	-2.41%
			680	0.846	42.054	0.888	42.305	-4.73%	-0.59%
			695	0.852	42.017	0.889	42.227	-4.16%	-0.50%
			700	0.854	42.011	0.889	42.201	-3.94%	-0.45%
			710	0.857	41.992	0.890	42.149	-3.71%	-0.37%
			725	0.862	41.958	0.891	42.071	-3.25%	-0.27%
			750	0.868	41.890	0.893	41.942	-2.80%	-0.20%
7/17/2025	750 Head	21.0	770	0.880	41.766	0.895	41.838	-2.12%	-0.17%
			785	0.882	41.713	0.896	41.760	-1.56%	-0.11%
			800	0.888	41.685	0.897	41.682	-1.00%	0.01%
			815	0.894	41.369	0.898	41.594	-0.49%	-0.55%
			820	0.898	41.286	0.899	41.578	-0.11%	-0.20%
			835	0.912	41.052	0.900	41.500	1.33%	-1.68%
			850	0.927	40.852	0.916	41.500	1.16%	-1.56%
			815	0.896	42.460	0.898	41.594	-1.34%	-2.08%
			820	0.891	42.397	0.899	41.578	-0.89%	-1.97%
			835	0.906	42.209	0.900	41.500	0.67%	-1.74%
7/9/2025	835 Head	20.8	850	0.921	42.023	0.916	41.500	0.55%	-1.26%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
7/3/2025	1750 Head	20.4	1700	1.388	39.583	1.343	40.145	1.12%	-1.40%
			1705	1.363	39.564	1.345	40.141	1.34%	-1.44%
			1710	1.367	39.544	1.348	40.136	1.41%	-1.47%
			1720	1.378	39.504	1.354	40.126	1.62%	-1.55%
			1745	1.399	39.396	1.368	40.087	2.27%	-1.75%
			1750	1.404	39.357	1.371	40.079	2.41%	-1.80%
			1770	1.426	39.242	1.383	40.047	3.11%	-2.01%
7/6/2025	1750 Head	20.6	1790	1.448	39.138	1.394	40.016	3.95%	-2.19%
			1700	1.289	41.742	1.343	40.145	-4.04%	3.98%
			1705	1.292	41.730	1.345	40.141	-3.97%	3.96%
			1710	1.296	41.717	1.348	40.136	-3.86%	3.94%
			1720	1.304	41.694	1.354	40.126	-3.69%	3.91%
			1745	1.324	41.655	1.368	40.087	-3.25%	3.91%
			1750	1.327	41.631	1.371	40.079	-3.07%	3.91%
7/20/2025	1750 Head	19.4	1790	1.348	41.589	1.383	40.047	-3.24%	3.97%
			1700	1.289	38.911	1.343	40.145	-4.10%	-3.07%
			1705	1.291	38.902	1.345	40.141	-4.01%	-3.09%
			1710	1.294	38.896	1.348	40.136	-4.01%	-3.11%
			1720	1.301	38.861	1.354	40.126	-3.91%	-3.15%
			1745	1.318	38.791	1.368	40.087	-3.65%	-3.23%
			1750	1.321	38.778	1.371	40.079	-3.65%	-3.25%
6/27/2025	1900 Head	20.7	1770	1.333	38.734	1.383	40.047	-3.69%	-3.28%
			1790	1.347	38.715	1.394	40.016	-3.73%	-3.25%
			1850	1.363	39.285	1.400	40.000	-2.77%	-1.79%
			1860	1.371	39.231	1.400	40.000	-2.07%	-1.92%
			1880	1.391	39.138	1.400	40.000	-0.64%	-2.16%
			1900	1.413	39.063	1.400	40.000	0.93%	-2.34%
			1905	1.415	39.048	1.400	40.000	1.36%	-2.34%
6/23/2025	2450 Head	24.7	1910	1.424	39.048	1.400	40.000	1.20%	-2.45%
			1920	1.425	38.989	1.400	40.000	2.50%	-2.51%
			2300	1.684	39.265	1.670	39.500	-0.96%	-0.59%
			2310	1.685	39.233	1.679	39.490	-0.83%	-0.63%
			2320	1.676	39.197	1.687	39.460	-0.65%	-0.67%
			2400	1.767	38.873	1.756	39.289	0.63%	-1.06%
			2450	1.828	38.699	1.800	39.200	1.44%	-1.28%
6/24/2025	2450 Head	20.7	2480	1.861	38.556	1.833	39.162	1.53%	-1.55%
			2500	1.884	38.471	1.855	39.136	1.56%	-1.70%
			2510	1.898	38.437	1.866	39.123	1.61%	-1.75%
			2535	1.925	38.358	1.893	39.092	1.69%	-1.88%
			2550	1.942	38.301	1.909	39.073	1.73%	-1.98%
			2560	1.954	38.256	1.920	39.060	1.77%	-2.06%
			2600	2.001	38.069	1.964	39.009	1.93%	-2.41%
6/25/2025	2450 Head	24.0	2650	2.062	37.891	2.018	38.945	2.18%	-2.71%
			2660	2.064	37.876	2.017	38.945	2.10%	-2.71%
			2700	2.118	37.770	2.073	38.892	2.52%	-3.12%
			2300	1.761	37.769	1.670	39.500	2.68%	-4.32%
			2310	1.740	37.768	1.679	39.490	2.63%	-4.34%
			2320	1.748	37.745	1.687	39.460	2.62%	-4.35%
			2400	1.810	37.606	1.756	39.289	3.09%	-4.28%
6/26/2025	2450 Head	21.0	2450	1.854	37.511	1.800	39.200	3.00%	-4.31%
			2480	1.875	37.478	1.833	39.162	2.29%	-4.30%
			2500	1.887	37.428	1.855	39.136	1.73%	-4.36%
			2510	1.894	37.399	1.866	39.123	1.50%	-4.41%
			2535	1.916	37.332	1.893	39.092	1.22%	-4.50%
			2550	1.931	37.305	1.909	39.073	1.15%	-4.52%
			2560	1.941	37.295	1.920	39.060	1.09%	-4.52%
6/27/2025	2450 Head	21.0	2600	1.970	37.234	1.964	39.009	0.31%	-4.55%
			2650	2.010	37.095	2.018	38.945	-0.40%	-4.75%
			2660	2.042	37.040	2.051	38.907	0.44%	-4.95%
			2700	2.054	37.011	2.073	38.862	0.52%	-5.05%
			2300	1.729	37.050	1.670	39.500	1.92%	-4.12%
			2310	1.713	38.919	1.679	39.490	2.03%	-4.08%
			2320	1.724	38.881	1.687	39.460	2.19%	-4.05%
6/28/2025	2450 Head	21.0	2400	1.818	38.135	1.756	39.289	3.53%	-3.39%
			2450	1.873	38.040	1.800	39.200	4.09%	-3.65%
			2480	1.900	38.796	1.833	39.162	4.09%	-3.95%
			2500	1.933	38.710	1.855	39.136	4.20%	-4.09%
			2510	1.948	38.677	1.866	39.123	4.29%	-4.14%
			2535	1.976	38.594	1.893	39.092	4.38%	-4.27%
			2550	1.991	38.532	1.909	39.073	4.30%	-4.38%
6/29/2025	2450 Head	21.0	2560	2.001	38.483	1.920	39.060	4.22%	-4.48%
			2600	2.046	38.302	1.964	39.009	4.33%	-4.81%
			2650	2.111	38.131	2.018	38.945	4.61%	-2.09%
			2660	2.142	37.991	2.051	38.907	4.44%	-2.35%
			2700	2.165	37.896	2.073	38.882	4.44%	-2.54%
			2300	1.722	37.850	1.670	39.500	2.94%	-4.22%
			2310	1.720	38.457	1.679	39.480	3.04%	-4.59%
6/30/2025	2450 Head	21.0	2320	1.728	38.447	1.687	39.460	3.02%	-4.57%
			2400	1.796	38.306	1.756	39.289	2.28%	-2.50%
			2450	1.834	38.242	1.800	39.200	1.89%	-2.44%
			2480	1.857	38.171	1.833	39.162	1.31%	-2.53%
			2500	1.873	38.140	1.855	39.136	0.97%	-2.54%
			2510	1.881	38.131	1.866	39.123	0.80%	-2.54%
			2535	1.900	38.109	1.893	39.092	0.49%	-2.51%
6/31/2025	2450 Head	21.0	2550	1.915	38.093	1.909	39.073	0.31%	-2.51%
			2560	1.923	38.075	1.920	39.060	0.16%	-2.52%
			2600	1.954	37.980	1.964	39.009	-0.51%	-2.64%
			2650	1.995	37.902	2.018	38.945	-1.14%	-2.68%
			2660	2.020	37.845	2.051	38.907	-1.51%	-2.73%
			2700	2.036	37.801	2.073	38.882	-1.76%	-2.76%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
7/2/2025	2450 Head	20.6	2400	1.746	39.971	1.756	39.289	-0.5%	1.74%
			2450	1.781	39.966	1.800	39.200	-1.6%	1.95%
			2480	1.807	39.888	1.833	39.162	-1.4%	1.85%
			2500	1.823	39.829	1.855	39.136	-1.3%	1.77%
			2510	1.830	39.808	1.866	39.123	-1.0%	1.75%
			2535	1.844	39.781	1.893	39.092	-2.3%	1.76%
			2550	1.860	39.773	1.909	39.073	-2.5%	1.79%
			2560	1.869	39.762	1.920	39.060	-2.6%	1.80%
			2600	1.903	39.852	1.964	39.009	-3.1%	1.67%
			2650	1.940	39.556	2.018	38.945	-3.8%	1.57%
			2680	1.968	39.532	2.051	38.907	-4.0%	1.61%
			2700	1.984	39.503	2.073	38.882	-4.2%	1.60%
			2300	1.667	39.969	1.670	39.500	-0.1%	1.19%
			2350	1.678	39.886	1.679	39.400	-0.1%	1.04%
			2380	1.685	39.841	1.687	39.490	-0.2%	1.22%
7/22/2025	2450 Head	20.0	2400	1.746	39.839	1.756	39.289	-0.5%	1.38%
			2450	1.762	39.763	1.800	39.200	-0.4%	1.45%
			2480	1.815	39.725	1.833	39.162	-0.8%	1.44%
			2500	1.831	39.696	1.855	39.136	-1.2%	1.41%
			2510	1.838	39.667	1.866	39.123	-1.6%	1.39%
			2535	1.862	39.616	1.893	39.092	-1.6%	1.34%
			2550	1.876	39.592	1.909	39.073	-1.7%	1.33%
			2560	1.884	39.579	1.920	39.060	-1.8%	1.33%
			2600	1.919	39.502	1.964	39.009	-2.3%	1.26%
			2650	1.966	39.413	2.018	38.945	-2.8%	1.20%
			2680	1.987	39.362	2.051	38.907	-3.1%	1.17%
			2700	2.009	39.306	2.073	38.882	-3.2%	1.09%
			2300	1.678	38.721	1.670	39.500	-0.4%	-1.9%
			2350	1.689	38.675	1.679	39.400	-0.6%	-2.0%
			2380	1.691	38.641	1.687	39.490	-0.6%	-2.1%
7/28/2025	2450 Head	24.5	2400	1.791	38.518	1.756	39.289	-1.0%	-2.4%
			2450	1.849	38.103	1.800	39.200	-2.2%	-2.8%
			2480	1.883	37.986	1.833	39.162	-2.2%	-3.0%
			2500	1.907	37.908	1.855	39.136	-2.8%	-3.14%
			2510	1.918	37.866	1.866	39.123	-2.7%	-3.21%
			2535	1.948	37.762	1.893	39.092	-2.8%	-3.40%
			2550	1.964	37.700	1.909	39.073	-2.8%	-3.51%
			2560	1.975	37.656	1.920	39.060	-2.8%	-3.59%
			2600	2.022	37.459	1.964	39.009	-2.9%	-3.87%
			2650	2.080	37.293	2.018	38.945	-3.0%	-4.24%
			2680	2.114	37.166	2.051	38.907	-3.0%	-4.47%
			2700	2.138	37.090	2.073	38.882	-3.14%	-4.61%

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

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 – 1g

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	System Verification		DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)
							Source SN	Probe SN					
AM1	750	HEAD	07/13/2025	21.7	20.0	0.20	1097	7357	1582	1.690	8.270	8.450	2.18%
AM1	750	HEAD	07/15/2025	21.7	21.0	0.20	1057	7357	1582	1.830	8.800	9.150	3.98%
AM10	750	HEAD	07/17/2025	20.5	22.1	0.20	1057	3837	793	1.700	8.800	8.500	-3.41%
AM1	750	HEAD	07/21/2025	21.7	20.7	0.20	1057	7357	1582	1.690	8.800	8.450	-3.98%
AM12	835	HEAD	07/06/2025	20.7	20.3	0.20	4d108	7427	1408	2.030	9.800	10.150	3.57%
AM12	835	HEAD	07/09/2025	21.9	19.6	0.20	4d108	7427	1408	1.950	9.800	9.750	-0.51%
AM14	1750	HEAD	07/03/2025	22.1	20.6	0.10	1040	3746	1237	3.480	36.400	34.800	-4.40%
AM7	1750	HEAD	07/20/2025	21.3	19.0	0.10	1104	7490	1644	3.570	35.600	35.700	0.28%
AM15	1900	HEAD	06/27/2025	22.7	21.0	0.10	5d180	7638	467	3.910	39.200	39.100	-0.26%
AM14	2450	HEAD	06/23/2025	21.3	22.8	0.10	750	3746	1237	5.300	53.300	53.000	-0.56%
AM1	2450	HEAD	06/24/2025	21.1	20.9	0.10	750	7357	1582	5.320	53.300	53.200	-0.19%
AM14	2450	HEAD	06/25/2025	22.5	23.5	0.10	855	3746	1237	5.060	52.400	50.600	-3.44%
AM1	2450	HEAD	06/26/2025	23.3	21.0	0.10	750	7357	1582	5.290	53.300	52.100	-2.25%
AM14	2450	HEAD	06/30/2025	21.8	20.6	0.10	750	3746	1237	5.290	53.300	52.900	-0.75%
AM14	2600	HEAD	06/23/2025	21.3	22.8	0.10	1042	3746	1237	5.480	54.900	54.800	-0.18%
AM1	2600	HEAD	06/24/2025	21.1	20.9	0.10	1042	7357	1582	5.360	54.900	53.600	-2.37%
AM14	2600	HEAD	06/25/2025	22.5	23.5	0.10	1068	3746	1237	5.620	56.500	56.200	-0.53%
AM1	2600	HEAD	06/26/2025	23.3	21.0	0.10	1042	7357	1582	5.700	54.900	57.000	3.83%

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Table 9-3
System Verification Results – 10g

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	System Verification		DAE	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
							Source SN	Probe SN					
AM14	13	HEAD	07/11/2025	20.2	22.3	1.00	1004	3746	1237	0.372	0.355	0.372	4.79%
AM10	750	HEAD	07/07/2025	22.1	22.3	0.20	1057	3837	793	1.160	5.730	5.800	1.22%
AM1	750	HEAD	07/07/2025	21.6	21.0	0.20	1057	7357	1582	1.230	5.730	6.150	7.33%
AM1	750	HEAD	07/11/2025	22.0	21.6	0.20	1057	7357	1582	1.220	5.730	6.100	6.46%
AM1	750	HEAD	07/13/2025	21.7	20.0	0.20	1097	7357	1582	1.120	5.380	5.600	4.09%
AM10	750	HEAD	07/17/2025	20.5	22.1	0.20	1057	3837	793	1.140	5.730	5.700	-0.52%
AM1	750	HEAD	07/17/2025	23.0	21.0	0.20	1057	7357	1582	1.220	5.730	6.100	6.46%
AM12	835	HEAD	07/06/2025	20.7	20.3	0.20	4d108	7427	1408	1.330	6.340	6.650	4.89%
AM12	835	HEAD	07/09/2025	21.9	19.6	0.20	4d108	7427	1408	1.280	6.340	6.400	0.95%
AM11	1750	HEAD	07/06/2025	22.0	20.6	0.10	1040	7551	1323	1.820	19.100	18.200	-4.71%
AM15	1900	HEAD	06/27/2025	22.7	21.0	0.10	5d180	7638	467	2.040	20.600	20.400	-0.97%
AM1	2450	HEAD	06/26/2025	23.3	21.0	0.10	750	7357	1582	2.460	25.100	24.600	-1.99%
AM14	2450	HEAD	06/30/2025	21.8	20.6	0.10	750	3746	1237	2.380	25.100	23.800	-5.18%
AM11	2450	HEAD	07/02/2025	19.6	19.5	0.10	750	7551	1323	2.360	25.100	23.600	-5.98%
AM10	2450	HEAD	07/22/2025	22.1	21.2	0.10	750	3837	793	2.650	25.100	26.500	5.58%
AM14	2450	HEAD	07/28/2025	22.8	23.5	0.10	855	3746	1237	2.370	24.600	23.700	-3.66%
AM1	2600	HEAD	06/26/2025	23.3	21.0	0.10	1042	7357	1582	2.580	24.500	25.800	5.31%
AM11	2600	HEAD	07/02/2025	19.6	19.5	0.10	1042	7551	1323	2.520	24.500	25.200	2.86%
AM10	2600	HEAD	07/22/2025	22.1	21.2	0.10	1069	3837	793	2.610	25.500	26.100	2.35%
AM14	2600	HEAD	07/28/2025	22.8	23.5	0.10	1068	3746	1237	2.390	25.400	23.900	-5.91%

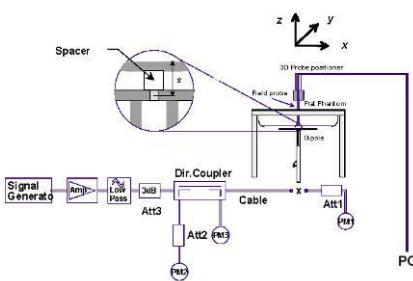


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 LTE Band 71 Standalone Head SAR

Table 10-1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 71	20	QPSK	Aluminum	Sport	V4GRY	1:1	-0.15	680.50	133297	0.0	25.70	24.85	1	0	Front	10	0.020	1.216	0.024	0.015	
Head	LTE Band 71	20	QPSK	Aluminum	Sport	V4GRY	1:1	0.07	680.50	133297	1.0	24.70	23.86	50	0	Front	10	0.015	1.213	0.018	0.011	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.03	680.50	133297	0.0	25.70	24.85	1	0	Front	10	0.024	1.216	0.029	0.016	A1
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.03	680.50	133297	1.0	24.70	23.86	50	0	Front	10	0.002	1.213	0.002	0.001	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	0.05	680.50	133297	0.0	25.70	24.85	1	0	Front	10	0.021	1.216	0.026	0.016	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	0.01	680.50	133297	1.0	24.70	23.86	50	0	Front	10	0.001	1.213	0.019	0.012	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.2 LTE Band 71 Standalone Extremity SAR

Table 10-2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	V4GRY	1:1	0.03	680.50	133297	0.0	25.70	24.85	1	0	Back	0	0.426	1.216	0.518	0.130	A2
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	V4GRY	1:1	0.08	680.50	133297	1.0	24.70	23.86	50	0	Back	0	0.265	1.213	0.321	0.080	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.07	680.50	133297	0.0	25.70	24.85	1	0	Back	0	0.376	1.216	0.457	0.114	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.01	680.50	133297	1.0	24.70	23.86	50	0	Back	0	0.285	1.213	0.346	0.087	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	0.04	680.50	133297	0.0	25.70	24.85	1	0	Back	0	0.404	1.216	0.491	0.123	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	-0.14	680.50	133297	1.0	24.70	23.86	50	0	Back	0	0.341	1.213	0.414	0.104	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

10.3 LTE Band 12 Standalone Head SAR

Table 10-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 12	10	QPSK	Aluminum	Sport	GROH9	1:1	-0.02	707.50	23095	0.0	25.70	24.85	1	0	Front	10	0.020	1.216	0.024	0.015	
Head	LTE Band 12	10	QPSK	Aluminum	Sport	GROH9	1:1	-0.04	707.50	23095	1.0	24.70	23.87	25	0	Front	10	0.018	1.211	0.022	0.014	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GROH9	1:1	0.07	707.50	23095	0.0	25.70	24.85	1	0	Front	10	0.026	1.216	0.032	0.020	A3
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GROH9	1:1	0.13	707.50	23095	1.0	24.70	23.87	25	0	Front	10	0.020	1.211	0.024	0.015	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	GROH9	1:1	0.05	707.50	23095	0.0	25.70	24.85	1	0	Front	10	0.024	1.216	0.029	0.018	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	GROH9	1:1	0.07	707.50	23095	1.0	24.70	23.87	25	0	Front	10	0.019	1.211	0.023	0.014	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.4 LTE Band 12 Standalone Extremity SAR

Table 10-4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	GROH9	1:1	0.04	707.50	23095	0.0	25.70	24.85	1	0	Back	0	0.363	1.216	0.441	0.110	
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	GROH9	1:1	-0.13	707.50	23095	1.0	24.70	23.87	25	0	Back	0	0.319	1.211	0.386	0.097	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GROH9	1:1	0.05	707.50	23095	0.0	25.70	24.85	1	0	Back	0	0.463	1.216	0.563	0.141	A4
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GROH9	1:1	-0.14	707.50	23095	1.0	24.70	23.87	25	0	Back	0	0.318	1.211	0.385	0.096	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	GROH9	1:1	0.07	707.50	23095	0.0	25.70	24.85	1	0	Back	0	0.409	1.216	0.497	0.124	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	GROH9	1:1	-0.16	707.50	23095	1.0	24.70	23.87	25	0	Back	0	0.356	1.211	0.443	0.111	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

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10.5 LTE Band 13 Standalone Head SAR

Table 10-5

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 13	10	QPSK	Aluminum	Sport	GROH9	1:1	0.06	782.00	23230	0.0	25.70	24.91	1	0	Front	10	0.008	1.199	0.010	0.006	A5
Head	LTE Band 13	10	QPSK	Aluminum	Sport	GROH9	1:1	0.05	782.00	23230	1.0	24.70	23.90	25	25	Front	10	0.004	1.202	0.005	0.003	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	GROH9	1:1	0.09	782.00	23230	0.0	25.70	24.91	1	0	Front	10	0.001	1.199	0.001	0.001	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	GROH9	1:1	0.08	782.00	23230	1.0	24.70	23.90	25	25	Front	10	0.000	1.202	0.000	0.000	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	GROH9	1:1	0.02	782.00	23230	0.0	25.70	24.91	1	0	Front	10	0.002	1.199	0.002	0.001	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	GROH9	1:1	0.09	782.00	23230	1.0	24.70	23.90	25	25	Front	10	0.000	1.202	0.000	0.000	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram				

10.6 LTE Band 13 Standalone Extremity SAR

Table 10-6

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	JRWHB	1:1	0.02	782.00	23230	0.0	25.70	24.91	1	0	Back	0	0.312	1.199	0.374	0.094	
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	JRWHB	1:1	0.03	782.00	23230	1.0	24.70	23.90	25	25	Back	0	0.227	1.202	0.273	0.058	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	JRWHB	1:1	0.07	782.00	23230	0.0	25.70	24.91	1	0	Back	0	0.302	1.199	0.362	0.091	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	JRWHB	1:1	0.08	782.00	23230	1.0	24.70	23.90	25	25	Back	0	0.296	1.202	0.356	0.089	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	JRWHB	1:1	0.02	782.00	23230	0.0	25.70	24.91	1	0	Back	0	0.342	1.199	0.410	0.103	A6
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	JRWHB	1:1	0.08	782.00	23230	1.0	24.70	23.90	25	25	Back	0	0.305	1.202	0.367	0.092	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.7 LTE Band 14 Standalone Head SAR

Table 10-7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 14	10	QPSK	Aluminum	Sport	J63HO	1:1	0.02	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.023	1.205	0.028	0.018	
Head	LTE Band 14	10	QPSK	Aluminum	Sport	J63HO	1:1	-0.04	793.00	23330	1.0	24.70	23.83	25	25	Front	10	0.018	1.222	0.022	0.014	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	J63HO	1:1	0.07	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.026	1.205	0.034	0.021	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	J63HO	1:1	0.03	793.00	23330	1.0	24.70	23.83	25	25	Front	10	0.022	1.222	0.027	0.017	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	J63HO	1:1	0.09	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.029	1.205	0.035	0.022	A7
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	J63HO	1:1	0.06	793.00	23330	1.0	24.70	23.83	25	25	Front	10	0.021	1.222	0.028	0.018	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram				

10.8 LTE Band 14 Standalone Extremity SAR

Table 10-8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	V4GRY	1:1	0.01	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.365	1.205	0.321	0.080	
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	V4GRY	1:1	0.01	793.00	23330	1.0	24.70	23.83	25	25	Back	0	0.219	1.222	0.268	0.067	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.03	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.389	1.205	0.469	0.117	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	V4GRY	1:1	-0.10	793.00	23330	1.0	24.70	23.83	25	25	Back	0	0.260	1.222	0.318	0.080	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	V4GRY	1:1	-0.04	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.414	1.205	0.499	0.125	A8
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	V4GRY	1:1	-0.09	793.00	23330	1.0	24.70	23.83	25	25	Back	0	0.333	1.222	0.407	0.102	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.9 LTE Band 26 (Cell) Standalone Head SAR

Table 10-9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 26	10	QPSK	Aluminum	Sport	CXF4X	1:1	0.05	819.00	26740	0.0	25.70	24.94	1	0	Front	10	0.000	1.191	0.000	0.000	A9
Head	LTE Band 26	10	QPSK	Aluminum	Sport	CXF4X	1:1	0.09	819.00	26740	1.0	24.70	23.90	25	0	Front	10	0.000	1.202	0.000	0.000	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	CXF4X	1:1	0.07	819.00	26740	0.0	25.70	24.94	1	0	Front	10	0.000	1.191	0.000	0.000	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	CXF4X	1:1	0.05	819.00	26740	1.0	24.70	23.90	25	0	Front	10	0.000	1.202	0.000	0.000	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	CXF4X	1:1	0.01	819.00	26740	0.0	25.70	24.94	1	0	Front	10	0.000	1.191	0.000	0.000	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	CXF4X	1:1	0.01	819.00	26740	1.0	24.70	23.90	25	0	Front	10	0.000	1.202	0.000	0.000	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram				

FCC ID: BCG-A3328

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Approved by:

Technical Manager

DUT Type:

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10.10 LTE Band 26 (Cell) Standalone Extremity SAR

Table 10-10

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	V1F6	1:1	-0.11	819.00	26740	0.0	25.70	24.94	1	0	Back	0	0.226	1.191	0.269	0.067	
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	V1F6	1:1	0.03	819.00	26740	1.0	24.70	23.90	25	0	Back	0	0.181	1.202	0.218	0.055	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.11	819.00	26740	0.0	25.70	24.94	1	0	Back	0	0.245	1.191	0.292	0.073	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	V1F6	1:1	-0.02	819.00	26740	1.0	24.70	23.90	25	0	Back	0	0.195	1.202	0.234	0.059	A10
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.08	819.00	26740	0.0	25.70	24.94	1	0	Back	0	0.341	1.191	0.406	0.102	A10
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.04	819.00	26740	1.0	24.70	23.90	25	0	Back	0	0.282	1.202	0.339	0.085	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

10.11 LTE Band 5 (Cell) Standalone Head SAR

Table 10-11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 5	10	QPSK	Aluminum	Sport	V1F6	1:1	0.01	836.50	20525	0.0	25.70	24.85	1	25	Front	10	0.002	1.216	0.002	0.001	A11
Head	LTE Band 5	10	QPSK	Aluminum	Sport	V1F6	1:1	0.01	836.50	20525	1.0	24.70	23.92	25	0	Front	10	0.000	1.197	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.02	836.50	20525	0.0	25.70	24.85	1	25	Front	10	0.002	1.216	0.002	0.001	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.01	836.50	20525	1.0	24.70	23.92	25	0	Front	10	0.002	1.197	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	V1F6	1:1	0.04	836.50	20525	0.0	25.70	24.85	1	25	Front	10	0.000	1.216	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	V1F6	1:1	0.05	836.50	20525	1.0	24.70	23.92	25	0	Front	10	0.000	1.197	0.000	0.000	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.12 LTE Band 5 (Cell) Standalone Extremity SAR

Table 10-12

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	CURY	1:1	0.03	836.50	20525	0.0	25.70	24.85	1	25	Back	0	0.215	1.216	0.261	0.005	
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	CURY	1:1	0.13	836.50	20525	1.0	24.70	23.92	25	0	Back	0	0.171	1.197	0.229	0.001	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	CURY	1:1	0.13	836.50	20525	0.0	25.70	24.85	1	25	Back	0	0.215	1.216	0.371	1.093	A12
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	CURY	1:1	0.06	836.50	20525	1.0	24.70	23.92	25	0	Back	0	0.245	1.197	0.293	0.073	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	CURY	1:1	0.13	836.50	20525	0.0	25.70	24.85	1	25	Back	0	0.263	1.216	0.243	0.086	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	CURY	1:1	-0.05	836.50	20525	1.0	24.70	23.92	25	0	Back	0	0.238	1.197	0.285	0.071	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

10.13 LTE Band 66 (AWS) Standalone Head SAR

Table 10-13

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Head	LTE Band 66	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.02	1720.00	132072	0.0	25.20	24.24	1	0	Front	10	0.198	1.247	0.247	0.154	
Head	LTE Band 66	20	QPSK	Aluminum	Sport	7G4WQ	1:1	-0.02	1720.00	132072	1.0	24.20	23.77	50	0	Front	10	0.180	1.104	0.199	0.124	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	-0.02	1720.00	132072	0.0	25.20	24.24	1	0	Front	10	0.394	1.247	0.491	0.307	A13
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.03	1720.00	132072	1.0	24.20	23.77	50	0	Front	10	0.354	1.104	0.391	0.244	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	7G4WQ	1:1	-0.11	1720.00	132072	0.0	25.20	24.24	1	0	Front	10	0.277	1.247	0.339	0.212	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	7G4WQ	1:1	0.01	1720.00	132072	1.0	24.20	23.77	50	0	Front	10	0.150	1.104	0.276	0.173	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.14 LTE Band 66 (AWS) Standalone Extremity SAR

Table 10-14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	CX4X	1:1	-0.07	1720.00	132072	0.0	25.20	24.24	1	0	Back	0	0.099	1.247	0.123	0.031	A14
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	CX4X	1:1	-0.11	1720.00	132072	1.0	24.20	23.77	50	0	Back	0	0.087	1.104	0.096	0.024	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	CX4X	1:1	-0.20	1720.00	132072	0.0	25.20	24.24	1	0	Back	0	0.026	1.247	0.032	0.008	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	CX4X	1:1	0.07	1720.00	132072	1.0	24.20	23.77	50	0	Back	0	0.019	1.104	0.021	0.005	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	CX4X	1:1	-0.18	1720.00	132072	0.0	25.20	24.24	1	0	Back	0	0.026	1.247	0.032	0.008	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	CX4X	1:1	0.08	1720.00	132072	1.0	24.20	23.77	50	0	Back	0	0.022	1.104	0.024	0.006	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

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10.15 LTE Band 25 (PCS) Standalone Head SAR

Table 10-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 25	20	QPSK	Aluminum	Sport	9NH5H	1:1	-0.01	1882.50	26365	0.0	25.20	24.43	1	50	Front	10	0.217	1.194	0.259	0.162	
Head	LTE Band 25	20	QPSK	Aluminum	Sport	9NH5H	1:1	-0.01	1882.50	26365	1.0	24.20	23.65	50	25	Front	10	0.182	1.135	0.207	0.129	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	9NH5H	1:1	-0.01	1882.50	26365	0.0	25.20	24.43	1	50	Front	10	0.341	1.194	0.407	0.254	A15
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	9NH5H	1:1	-0.03	1882.50	26365	1.0	24.20	23.65	50	25	Front	10	0.267	1.135	0.303	0.189	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	9NH5H	1:1	-0.07	1882.50	26365	0.0	25.20	24.43	1	50	Front	10	0.210	1.194	0.251	0.157	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	9NH5H	1:1	-0.04	1882.50	26365	1.0	24.20	23.65	50	25	Front	10	0.175	1.135	0.199	0.124	

ANSI/IEEE C95.1-1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

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

10.16 LTE Band 25 (PCS) Standalone Extremity SAR

Table 10-16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	J63HO	1:1	-0.12	1882.50	26365	0.0	25.20	24.43	1	50	Back	0	0.097	1.194	0.116	0.029	A16
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	J63HO	1:1	-0.13	1882.50	26365	1.0	24.20	23.65	50	25	Back	0	0.074	1.135	0.084	0.021	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	J63HO	1:1	0.01	1882.50	26365	0.0	25.20	24.43	1	50	Back	0	0.070	1.194	0.084	0.021	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	J63HO	1:1	-0.12	1882.50	26365	1.0	24.20	23.65	50	25	Back	0	0.042	1.135	0.048	0.012	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	J63HO	1:1	-0.21	1882.50	26365	0.0	25.20	24.43	1	50	Back	0	0.071	1.194	0.085	0.021	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	J63HO	1:1	-0.15	1882.50	26365	1.0	24.20	23.65	50	25	Back	0	0.056	1.135	0.064	0.016	

ANSI/IEEE C95.1-1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

Extremity
4.0 W/kg (mW/g)
averaged over 10 grams

10.17 LTE Band 7 Standalone Head SAR

Table 10-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	0.03	2510.00	20850	0.0	25.20	24.10	1	99	Front	10	0.533	1.288	0.637	0.429	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	0.09	2510.00	21300	0.0	25.20	24.10	1	50	Front	10	0.573	1.152	0.720	0.460	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	0.09	2500.00	21350	0.0	25.20	24.28	1	50	Front	10	0.560	1.235	0.645	0.510	A17
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	-0.01	2510.00	20850	1.0	24.20	23.60	50	25	Front	10	0.407	1.148	0.571	0.357	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	0.03	2535.00	21100	1.0	24.20	23.68	50	25	Front	10	0.407	1.127	0.560	0.350	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	0.04	2500.00	21350	1.0	24.20	23.69	50	25	Front	10	0.537	1.125	0.582	0.364	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	G67D0	1:1	0.01	2535.00	21100	1.0	24.20	23.68	100	0	Front	10	0.515	1.127	0.580	0.363	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	G67D0	1:1	-0.01	2500.00	21350	0.0	25.20	24.28	1	50	Front	10	0.418	1.236	0.517	0.323	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	G67D0	1:1	0.08	2500.00	21350	1.0	24.20	23.69	50	25	Front	10	0.377	1.125	0.424	0.265	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	G67D0	1:1	-0.02	2500.00	21350	0.0	25.20	24.28	1	50	Front	10	0.457	1.236	0.565	0.353	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	G67D0	1:1	-0.04	2500.00	21350	1.0	24.20	23.69	50	25	Front	10	0.408	1.125	0.459	0.287	

ANSI/IEEE C95.1-1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

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

10.18 LTE Band 7 Standalone Extremity SAR

Table 10-18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	V1F6	1:1	0.00	2560.00	21350	0.0	25.20	24.28	1	50	Back	0	0.090	1.236	0.111	0.028	
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	V1F6	1:1	-0.03	2560.00	21350	1.0	50	25	Back	0	0.090	1.125	0.100	0.023			
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.06	2560.00	21350	0.0	25.20	24.28	1	50	Back	0	0.100	1.236	0.135	0.034	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	V1F6	1:1	0.09	2560.00	21350	1.0	24.20	23.69	50	25	Back	0	0.095	1.125	0.107	0.027	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	V1F6	1:1	0.07	2560.00	21350	0.0	25.20	24.28	1	50	Back	0	0.183	1.236	0.226	0.057	A18
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	V1F6	1:1	0.03	2560.00	21350	1.0	24.20	23.69	50	25	Back	0	0.165	1.125	0.186	0.047	

ANSI/IEEE C95.1-1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

Extremity
4.0 W/kg (mW/g)
averaged over 10 grams

10.19 LTE Band 41 Standalone Head SAR

Table 10-19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	0.05	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.592	1.159	0.686	0.429	A19
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	0.02	2540.50	40185	0.0	25.20	24.54	1	50	Front	10	0.487	1.164	0.567	0.354	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	0.06	2590.00	40620	0.0	25.20	24.51	1	50	Front	10	0.485	1.172	0.568	0.355	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	0.03	2630.00	41055	0.0	25.20	24.49	1	50	Front	10	0.569	1.178	0.670	0.363	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	-0.03	2630.00	41490	0.0	25.20	24.47	1	50	Front	10	0.373	1.183	0.424	0.274	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	0.04	2626.00	39750	1.0	24.20	23.54	50	25	Front	10	0.424	1.164	0.533	0.377	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	V1F6	1:1.58	0.02	2506.00	39750	1.0	24.20	23.54	100	0	Front	10	0.507	1.164	0.590	0.369	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	V1F6	1:1.58	-0.01	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.395	1.159			

10.20 LTE Band 41 Standalone Extremity SAR

Table 10-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
ANS/IEEE C95.1-1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
Extremity																						
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	YTD99	1:1.58	0.05	2506.00	39750	0.0	25.20	24.56	1	50	Back	0	0.061	1.159	0.071	0.018	
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	YTD99	1:1.58	0.02	2506.00	39750	1.0	24.20	23.56	50	25	Back	0	0.047	1.159	0.054	0.014	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	YTD99	1:1.58	0.01	2506.00	39750	0.0	25.20	24.56	1	50	Back	0	0.110	1.159	0.127	0.032	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	YTD99	1:1.58	0.02	2506.00	39750	1.0	24.20	23.56	50	25	Back	0	0.063	1.159	0.096	0.024	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	YTD99	1:1.58	0.11	2506.00	39750	0.0	25.20	24.56	1	50	Back	0	0.131	1.159	0.152	0.038	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	YTD99	1:1.58	0.07	2506.00	39750	1.0	24.20	23.56	50	25	Back	0	0.105	1.159	0.122	0.031	
Extremity																						
4.0 W/kg (mW/g)																						
averaged over 10 grams																						

10.21 NR Band n71 Standalone Head SAR

Table 10-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
ANS/IEEE C95.1-1992 - SAFETY LIMIT																							
Spatial Peak																							
Uncontrolled Exposure/General Population																							
Head																							
Head	NR Band n71	20	QPSK	Aluminum	Sport	V4GRY	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	1	1	Front	10	0.002	1.442	0.003	0.002	
Head	NR Band n71	20	QPSK	Aluminum	Sport	V4GRY	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.10	50	28	Front	10	0.002	1.445	0.003	0.002	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	1	1	Front	10	0.000	1.442	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	V4GRY	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.10	50	28	Front	10	0.000	1.445	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	1	1	Front	10	0.003	1.442	0.004	0.003	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.10	50	28	Front	10	0.000	1.445	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	V4GRY	1:1	0.09	680.50	136100	CP-OFDM	1.5	24.20	23.03	1	1	Front	10	0.000	1.309	0.000	0.000	
Head																							
1.6 W/kg (mW/g)																							
averaged over 1 gram																							

10.22 NR Band n71 Standalone Extremity SAR

Table 10-22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
ANS/IEEE C95.1-1992 - SAFETY LIMIT																							
Spatial Peak																							
Uncontrolled Exposure/General Population																							
Extremity																							
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	J6H0H	1:1	-0.16	707.50	141500	DFT-s-OFDM	0.0	25.70	24.97	1	77	Front	10	0.000	1.183	0.000	0.000	
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	J6H0H	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	25.03	36	22	Front	10	0.001	1.167	0.001	0.001	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	J6H0H	1:1	-0.10	707.50	141500	DFT-s-OFDM	0.0	25.70	24.97	1	77	Front	10	0.000	1.040	0.000	0.000	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	J6H0H	1:1	0.01	707.50	141500	DFT-s-OFDM	1.5	24.20	24.03	1	77	Front	10	0.000	1.040	0.002	0.000	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	J6H0H	1:1	-0.18	707.50	141500	DFT-s-OFDM	0.0	25.70	24.97	1	77	Front	10	0.000	1.183	0.000	0.000	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	J6H0H	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.97	36	22	Front	10	0.000	1.183	0.000	0.000	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	J6H0H	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.97	1	77	Front	10	0.000	1.183	0.000	0.000	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	J6H0H	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	25.03	36	22	Front	10	0.000	0.425	1.167	0.496	0.124
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	J6H0H	1:1	-0.19	707.50	141500	CP-OFDM	1.5	24.20	24.03	1	77	Front	10	0.000	0.425	1.167	0.338	0.085
Extremity																							
4.0 W/kg (mW/g)																							
averaged over 10 grams																							

FCC ID: BCG-A3328
DUT Type:
Watch

RF EXPOSURE REPORT

Approved by:

Technical Manager

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REV 24.0

04/10/2025

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10.25 NR Band n14 Standalone Head SAR

Table 10-25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio 1g SAR	Plot #
Head	NR Band n14	10	GPSK	Aluminum	Sport	VJFY6	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.001	1.306	0.001	0.001	
Head	NR Band n14	10	GPSK	Aluminum	Sport	VJFY6	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	24.45	25	14	Front	10	0.003	1.334	0.004	0.003	A25
Head	NR Band n14	10	GPSK	Aluminum	Sport	VJFY6	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	22.98	1	1	Front	10	0.001	1.377	0.001	0.003	
Head	NR Band n14	10	GPSK	Aluminum	Metal Loop	VJFY6	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.003	1.334	0.005	0.000	
Head	NR Band n14	10	GPSK	Aluminum	Metal Loop	VJFY6	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.45	25	14	Front	10	0.000	1.334	0.009	0.000	
Head	NR Band n14	10	GPSK	Aluminum	Metal Links	VJFY6	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.002	1.306	0.003	0.002	
Head	NR Band n14	10	OPSK	Aluminum	Metal Links	VJFY6	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.45	25	14	Front	10	0.001	1.334	0.001	0.001	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
Head 1.6 W/kg (mW/g) averaged over 1 gram																							

10.26 NR Band n14 Standalone Extremity SAR

Table 10-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Extremity	NR Band n14	10	GPSK	Aluminum	Sport	6R09H	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.382	1.306	0.368	0.092	
Extremity	NR Band n14	10	GPSK	Aluminum	Sport	6R09H	1:1	-0.21	793.00	158600	DFT-s-OFDM	0.0	25.70	24.45	25	14	Back	0	0.277	1.334	0.370	0.093	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Loop	6R09H	1:1	-0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.333	1.306	0.435	0.109	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Loop	6R09H	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	24.45	25	14	Back	0	0.346	1.334	0.462	0.116	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Links	6R09H	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.404	1.306	0.528	0.132	A26
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Links	6R09H	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.45	25	14	Back	0	0.382	1.334	0.510	0.128	
Extremity	NR Band n14	10	OPSK	Aluminum	Metal Links	6R09H	1:1	-0.13	793.00	158600	CP-OFDM	1.5	24.20	22.94	1	1	Back	0	0.296	1.337	0.396	0.099	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
Extremity 4.0 W/kg (mW/g) averaged over 10 grams																							

10.27 NR Band n26 Standalone Head SAR

Table 10-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Head	NR Band n26	20	GPSK	Aluminum	Sport	XW1F9	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Front	10	0.001	1.445	0.001	0.001	A27
Head	NR Band n26	20	GPSK	Aluminum	Sport	XW1F9	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.01	1	1	Front	10	0.001	1.475	0.001	0.001	
Head	NR Band n26	20	GPSK	Aluminum	Metal Loop	XW1F9	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.10	1	1	Front	10	0.000	1.445	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Loop	XW1F9	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.10	50	28	Front	10	0.000	1.476	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Links	XW1F9	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.10	1	1	Front	10	0.000	1.445	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Links	XW1F9	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Front	10	0.000	1.476	0.000	0.000	
Head	NR Band n26	20	OPSK	Aluminum	Metal Links	XW1F9	1:1	0.06	831.50	166300	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.275	1.343	0.302	0.076	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
Head 1.6 W/kg (mW/g) averaged over 1 gram																							

10.28 NR Band n26 Standalone Extremity SAR

Table 10-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Extremity	NR Band n26	20	GPSK	Aluminum	Sport	VJFY6	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.10	1	1	Back	0	0.199	1.445	0.288	0.072	
Extremity	NR Band n26	20	GPSK	Aluminum	Sport	VJFY6	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Back	0	0.206	1.476	0.304	0.076	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Loop	VJFY6	1:1	0.13	831.50	166300	DFT-s-OFDM	0.0	25.70	24.10	1	1	Back	0	0.213	1.445	0.308	0.077	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Loop	VJFY6	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Back	0	0.231	1.476	0.341	0.085	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Links	VJFY6	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.10	1	1	Back	0	0.318	1.445	0.460	0.115	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Links	VJFY6	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Back	0	0.353	1.476	0.521	0.130	A28
Extremity	NR Band n26	20	OPSK	Aluminum	Metal Links	VJFY6	1:1	0.06	831.50	166300	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.275	1.343	0.302	0.076	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
Extremity 4.0 W/kg (mW/g) averaged over 10 grams																							

10.29 NR Band n5 Standalone Head SAR

Table 10-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported
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10.30 NR Band n5 Standalone Extremity SAR

Table 10-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n5	20	GPSK	Aluminum	Sport	VJFY6	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.47	1	1	Back	0	0.223	1.327	0.296	0.074	
Extremity	NR Band n5	20	GPSK	Aluminum	Sport	VJFY6	1:1	0.19	836.50	167300	DFT-s-OFDM	0.0	25.70	24.47	50	28	Back	0	0.240	1.327	0.318	0.080	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Loop	VJFY6	1:1	-0.18	836.50	167300	DFT-s-OFDM	0.0	25.70	24.47	1	1	Back	0	0.314	1.327	0.417	0.083	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Loop	VJFY6	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.47	50	28	Back	0	0.257	1.327	0.304	0.089	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Links	VJFY6	1:1	-0.13	836.50	167300	DFT-s-OFDM	0.0	25.70	24.47	1	1	Back	0	0.318	1.327	0.422	0.106	A30
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Links	VJFY6	1:1	-0.14	836.50	167300	DFT-s-OFDM	0.0	25.70	24.47	50	28	Back	0	0.315	1.327	0.418	0.105	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Links	VJFY6	1:1	0.03	836.50	167300	CP-OFDM	1.5	24.20	23.05	1	1	Back	0	0.211	1.303	0.275	0.069	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams					

10.31 NR Band n66 Standalone Head SAR

Table 10-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n66	20	OPSK	Aluminum	Sport	7G4WQ	1:1	0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Front	10	0.223	1.282	0.286	0.179	
Head	NR Band n66	20	OPSK	Aluminum	Sport	7G4WQ	1:1	0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.192	1.285	0.247	0.154	
Head	NR Band n66	20	OPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Front	10	0.479	1.282	0.614	0.384	A31
Head	NR Band n66	20	OPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.00	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.454	1.285	0.583	0.364	
Head	NR Band n66	20	OPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.09	1720.00	344000	CP-OFDM	1.5	23.70	22.57	1	1	Front	10	0.325	1.297	0.422	0.264	
Head	NR Band n66	20	OPSK	Aluminum	Metal Links	7G4WQ	1:1	0.00	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Front	10	0.302	1.282	0.387	0.242	
Head	NR Band n66	20	OPSK	Aluminum	Metal Links	7G4WQ	1:1	-0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.241	1.285	0.362	0.226	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram					

10.32 NR Band n66 Standalone Extremity SAR

Table 10-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n66	20	OPSK	Aluminum	Sport	CXFX4	1:1	-0.11	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Back	0	0.074	1.282	0.095	0.024	A32
Extremity	NR Band n66	20	OPSK	Aluminum	Sport	CXFX4	1:1	-0.14	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Back	0	0.071	1.285	0.091	0.023	
Extremity	NR Band n66	20	OPSK	Aluminum	Metal Loop	CXFX4	1:1	-0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Back	0	0.065	1.282	0.083	0.021	
Extremity	NR Band n66	20	OPSK	Aluminum	Metal Loop	CXFX4	1:1	-0.06	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Back	0	0.061	1.285	0.078	0.020	
Extremity	NR Band n66	20	OPSK	Aluminum	Metal Loop	CXFX4	1:1	-0.20	1720.00	344000	CP-OFDM	1.5	23.70	22.57	1	1	Back	0	0.038	1.297	0.049	0.012	
Extremity	NR Band n66	20	OPSK	Aluminum	Metal Links	CXFX4	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Back	0	0.047	1.282	0.060	0.015	
Extremity	NR Band n66	20	OPSK	Aluminum	Metal Links	CXFX4	1:1	-0.15	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Back	0	0.046	1.285	0.059	0.015	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams					

10.33 NR Band n25 Standalone Head SAR

Table 10-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n25	20	OPSK	Aluminum	Sport	J63H0	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.13	1	53	Front	10	0.166	1.279	0.212	0.133	
Head	NR Band n25	20	OPSK	Aluminum	Sport	J63H0	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Front	10	0.175	1.239	0.217	0.136	
Head	NR Band n25	20	OPSK	Aluminum	Metal Loop	J63H0	1:1	-0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.13	1	53	Front	10	0.271	1.279	0.347	0.217	
Head	NR Band n25	20	OPSK	Aluminum	Metal Loop	J63H0	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Front	10	0.283	1.239	0.351	0.219	A33
Head	NR Band n25	20	OPSK	Aluminum	Metal Loop	J63H0	1:1	0.00	1860.00	372000	CP-OFDM	1.5	23.70	22.76	1	1	Front	10	0.198	1.242	0.246	0.154	
Head	NR Band n25	20	OPSK	Aluminum	Metal Links	J63H0	1:1	-0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.13	1	53	Front	10	0.276	1.279	0.353	0.221	
Head	NR Band n25	20	OPSK	Aluminum	Metal Links	J63H0	1:1	-0.06	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Front	10	0.241	1.239	0.349	0.218	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram					

10.34 NR Band n25 Standalone Extremity SAR

Table 10-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n25	20	OPSK	Aluminum	Sport	J63H0	1:1	-0.11	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.13	1	53	Back	0	0.104	1.279	0.133	0.033	
Extremity	NR Band n25	20	OPSK	Aluminum	Sport	J63H0	1:1	0.07	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Back	0	0.112	1.239	0.139	0.033	A34
Extremity	NR Band n25	20	OPSK	Aluminum	Metal Loop	J63H0	1:1	-0.15	1860.00	372000	DFT-s-OFDM	1.5	24.00	23.00	1	53	Back	0	0.172	1.239	0.268	0.172	
Extremity	NR Band n25	20	OPSK	Aluminum	Metal Loop	J63H0	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.13	1	53	Back	0	0.061				

10.35 NR Band n7 Standalone Head SAR

Table 10-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n7	20	QPSK	Aluminum	Sport	7G4WQ	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.28	1	53	Front	10	0.551	1.236	0.681	0.426	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.14	2530.00	502000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Front	10	0.682	1.245	0.849	0.531	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.12	2530.00	502000	DFT-s-OFDM	0.0	25.20	24.28	50	28	Front	10	0.708	1.250	0.867	0.531	A35
Head	NR Band n7	20	QPSK	Aluminum	Sport	7G4WQ	1:1	-0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Front	10	0.653	1.239	0.772	0.453	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.12	2530.00	503000	DFT-s-OFDM	1.0	24.20	23.12	100	0	Front	10	0.630	1.282	0.808	0.505	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.06	2530.00	502000	CP-OFDM	1.5	23.70	23.02	1	1	Front	10	0.472	1.169	0.552	0.345	
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.28	1	53	Front	10	0.617	1.236	0.763	0.477	
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.581	1.225	0.712	0.445	
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	7G4WQ	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.529	1.225	0.648	0.405	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram					

10.36 NR Band n7 Standalone Extremity SAR

Table 10-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	VJF6	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.28	1	53	Back	0	0.113	1.236	0.140	0.05	
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	VJF6	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.115	1.225	0.141	0.05	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	VJF6	1:1	0.13	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.28	1	53	Back	0	0.090	1.236	0.111	0.028	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	VJF6	1:1	0.12	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.28	50	28	Back	0	0.130	1.236	0.130	0.030	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	VJF6	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.28	1	53	Back	0	0.140	1.236	0.173	0.043	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	VJF6	1:1	0.18	2535.00	503000	DFT-s-OFDM	0.0	25.20	24.28	50	28	Back	0	0.184	1.235	0.225	0.056	A36
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	VJF6	1:1	0.08	2510.00	502000	CP-OFDM	1.5	23.70	23.02	1	1	Back	0	0.123	1.169	0.144	0.036	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams					

10.37 NR Band n41 Standalone Head SAR

Table 10-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.07	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.27	1	1	Front	10	0.785	1.239	0.973	0.608	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	-0.04	2549.49	509698	DFT-s-OFDM	0.0	25.20	24.19	1	26	Front	10	0.557	1.262	0.709	0.439	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.03	2529.99	515998	DFT-s-OFDM	0.0	25.20	24.23	1	26	Front	10	0.569	1.250	0.711	0.444	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.02	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.30	1	26	Front	10	0.834	1.288	1.074	0.671	A37
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.01	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.30	1	26	Front	10	0.716	1.298	1.002	0.626	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.03	2676.99	535998	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.620	1.343	0.833	0.524	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.11	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.20	25	13	Front	10	0.676	1.259	0.851	0.532	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.01	2636.49	509698	DFT-s-OFDM	0.0	25.20	24.18	25	13	Front	10	0.638	1.265	0.807	0.504	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	25.20	23.99	25	13	Front	10	0.664	1.321	0.877	0.548	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.05	2636.49	509698	DFT-s-OFDM	0.0	25.20	24.08	25	13	Front	10	0.624	1.321	1.119	0.509	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.06	2679.99	525098	DFT-s-OFDM	0.0	25.20	24.26	25	13	Front	10	0.759	1.321	1.028	0.725	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.05	2636.49	509698	DFT-s-OFDM	1.0	24.20	23.18	50	0	Front	10	0.560	1.265	0.708	0.443	
Head	NR Band n41	20	QPSK	Aluminum	Sport	W12PH	1:1	0.05	2636.49	502004	CP-OFDM	1.5	23.70	22.67	1	1	Front	10	0.526	1.211	0.637	0.398	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	W12PH	1:1	0.06	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.27	1	1	Front	10	0.560	1.239	0.694	0.434	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	W12PH	1:1	0.02	2549.49	509698	DFT-s-OFDM	0.0	25.20	24.29	1	26	Front	10	0.641	1.262	0.809	0.506	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	W12PH	1:1	0.03	2529.99	518598	DFT-s-OFDM	0.0	25.20	24.23	1	26	Front	10	0.452	1.250	0.565	0.353	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.03	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.10	1	26	Front	10	0.726	1.286	0.935	0.584	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.08	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.731	1.343	0.982	0.614	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.03	2636.49	509698	DFT-s-OFDM	0.0	25.20	24.20	25	13	Front	10	0.697	1.295	0.878	0.548	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.06	2679.99	501204	DFT-s-OFDM	0.0	25.20	24.18	25	13	Front	10	0.659	1.321	1.085	0.634	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.03	2636.49	509698	DFT-s-OFDM	0.0	25.20	24.26	25	13	Front	10	0.562	1.321	0.742	0.464	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.05	2636.49	518598	DFT-s-OFDM	0.0	25.20	23.87	25	13	Front	10	0.712	1.358	0.967	0.604	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.04	2679.99	509698	DFT-s-OFDM	0.0	25.20	23.56	25	13	Front	10	0.758	1.459	1.106	0.691	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.06	2636.49	509698	DFT-s-OFDM	1.0	24.20	23.18	50	0	Front	10	0.379	1.265	0.479	0.299	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.07	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.27	1	1	Front	10	0.731	1.239	0.906	0.566	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	W12PH	1:1	0.01	2636.49	509698	DFT-s-OFDM	0.0	25.20	24.19	1	26	Front	10</					

10.38 NR Band n41 Standalone Extremity SAR

Table 10-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio 10g SAR	Plot #
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.27	1	1	Back	0	0.117	1.239	0.145	0.036	
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	7G4WQ	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.20	25	13	Back	0	0.124	1.259	0.156	0.039	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	-0.14	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.27	1	1	Back	0	0.183	1.239	0.227	0.057	A38
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.06	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.20	25	13	Back	0	0.169	1.259	0.180	0.043	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	7G4WQ	1:1	0.14	2506.02	501204	CP-OFDM	1.5	23.70	22.67	1	1	Back	0	0.149	1.211	0.189	0.045	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Link	7G4WQ	1:1	-0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.27	1	1	Back	0	0.178	1.239	0.221	0.055	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Link	7G4WQ	1:1	0.08	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.20	25	13	Back	0	0.154	1.259	0.194	0.049	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.39 2.4 GHz WIFI SISO Standalone Head SAR

Table 10-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Sport	49W1D	99.76	-0.01	2412	1	1.0	19.00	18.22	Front	10	0.204	1.197	1.002	0.245	0.153	A39
Head	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	49W1D	99.76	-0.17	2412	1	1.0	19.00	18.22	Front	10	0.149	1.197	1.002	0.179	0.112	
Head	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Links	49W1D	99.76	0.10	2412	1	1.0	19.00	18.22	Front	10	0.150	1.197	1.002	0.180	0.113	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram		

10.40 2.4 GHz WIFI SISO Standalone Extremity SAR

Table 10-40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Sport	CXF44	99.76	-0.04	2412	1	1.0	19.00	18.22	Back	0	0.024	1.197	1.002	0.029	0.007	
Extremity	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	CXF44	99.76	0.05	2412	1	1.0	19.00	18.22	Back	0	0.018	1.197	1.002	0.022	0.006	
Extremity	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Links	CXF44	99.76	-0.01	2412	1	1.0	19.00	18.22	Back	0	0.026	1.197	1.002	0.031	0.008	A40
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams		

10.41 2.4 GHz Bluetooth SISO Standalone Head SAR

Table 10-41

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	WL2PH	100.00	0.05	2441	39	1	17.50	16.20	Front	10	0.189	1.349	1.000	0.255	0.159	A41	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	WL2PH	100.00	0.04	2441	39	1	17.50	16.20	Front	10	0.154	1.349	1.000	0.208	0.130		
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	WL2PH	100.00	0.03	2441	39	1	17.50	16.20	Front	10	0.154	1.349	1.000	0.208	0.130		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram		

10.42 2.4 GHz Bluetooth SISO Standalone Extremity SAR

Table 10-42

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	3XQLM	100.00	0.20	2441	39	1	17.50	16.20	Back	0	0.020	1.349	1.000	0.027	0.007		
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	3XQLM	100.00	0.02	2441	39	1	17.50	16.20	Back	0	0.019	1.349	1.000	0.026	0.007		
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	3XQLM	100.00	-0.02	2441	39	1	17.50	16.20	Back	0	0.023	1.349	1.000	0.031	0.008	A42	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams		

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Approved by:

Technical Manager

DUT Type:
Watch

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10.43 NFC Standalone Extremity SAR

Table 10-43

Exposure	Band / Mode	Signal Type	Ant.	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NFC	B	NFC	Aluminum	Sport	XW1F9	0.04	13.60	Back	0	0.000	0.000	
Extremity	NFC	B	NFC	Aluminum	Metal Loop	XW1F9	0.07	13.60	Back	0	0.000	0.000	A43
Extremity	NFC	B	NFC	Aluminum	Metal Links	XW1F9	0.01	13.60	Back	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													
Extremity 4.0 W/kg (mW/g) averaged over 10 grams													

10.44 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. This device has one housing type: Aluminum. The non-metallic wrist accessory, sport band, was evaluated for all exposure conditions. The available metallic wrist accessories, metal links band and metal loop band, were additionally evaluated.
7. This device is a portable wrist-worn device and does not support any other use conditions. Therefore, the procedures in FCC KDB Publication 447498 D04v01 Section 3.3.3/3.3.1 have been applied for extremity and next to mouth (head) conditions.
8. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
9. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

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LTE Notes:

1. LTE Considerations: 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 7.2.4.
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 SAR measured at the highest output power channel in a given a test configuration was $> 0.6 \text{ W/kg}$ for 1g evaluations and $> 1.5 \text{ W/kg}$ for 10g SAR, 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. This device can only operate with 16 QAM on the uplink with less than or equal to 27 RB. QPSK and 16QAM LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") were additionally measured to support comparison and SAR test exclusion per KDB 941225 D05v02r04 Section 5.2.4 and 5.3.

NR Notes:

1. NR implementation supports SA mode.
2. 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.
3. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given test configuration was $> 0.6 \text{ W/kg}$ for 1g SAR evaluations and $> 1.5 \text{ W/kg}$ for 10g SAR evaluations for NR n41, testing at the other channels was required for such test configurations.

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) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.3.2 for more information.
2. When the maximum reported 1g averaged SAR is $\leq 0.8 \text{ W/kg}$, 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 $\leq 1.20 \text{ W/kg}$ for 1g evaluations or all test channels were measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
3. 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.
4. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

1. To determine compliance, Bluetooth SAR was measured with the maximum power condition. Bluetooth was evaluated with a test mode with 100% transmission duty factor.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01, SAR measurement variability was not assessed for each frequency band since all measured SAR values are < 0.8 W/kg for 1g SAR and < 2.0 W/kg for 10g SAR.

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)		
2600	2636.49	527298	NR Band n41, 20 MHz Bandwidth	QPSK, 1 RB, 26 RB Offset	Ant FCM	N/A	Front	10 mm	0.834	0.778	1.07	
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 was not required.

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12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MV45111242
Agilent	E4408C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MV45091382
Agilent	E4408C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MV45091078
Agilent	E5312A	Model 5312A Network Analyzer	8/15/2025	Annual	8/15/2026	MV40001428
Agilent	8753S	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MV40001472
Agilent	8753S	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MV40001384
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB44500775
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46110464
Amplifier Research	15516S	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15516S	Attenuator	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747981
Anritsu	M2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	M2495A	Power Meter	7/3/2025	Annual	7/3/2026	1039008
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/29/2024	Annual	10/29/2025	1039003
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Mini-Circuits	PWR-4H5	9-kHz-4000-MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12532710057
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	240174396
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174399
Control Company	4040	Therm / Clock Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm / Clock Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763003
Control Company	4040	Therm / Clock / Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MV4801023
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MV6447002
Agilent	N9020A	MXA Signal Analyzer	N/A	N/A	CBT	N/A
Mini-Circuits	VLF-4000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-4000+	Low Pass Filter DC to 6000 MHz	7/31/2025	Annual	7/31/2026	31634
Mini-Circuits	BW-N20W+	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-2500	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUC020-5+	Attenuator (5dB)	CBT	N/A	CBT	9406
Narda	477-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	105004
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	105005
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	105118
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102000
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	107112
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAK-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	DAK-3.5	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1227
SPEAG	DAK-4	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	DAK-4	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	CLA-13	Confined Loop Antennas	11/11/2024	Annual	11/11/2025	1004
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Triennial	11/17/2025	1040
SPEAG	D1750V2	1750 MHz SAR Dipole	8/20/2023	Biennial	8/6/2025	1040
SPEAG	D1750V2	1750 MHz SAR Dipole	8/20/2023	Biennial	8/6/2025	54193
SPEAG	D240V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D240V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D260V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D260V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1068
SPEAG	D260V2	2600 MHz SAR Dipole	9/12/2023	Biennial	9/12/2025	1069
SPEAG	D750V2	750 MHz SAR Dipole	3/10/2023	Biennial	9/6/2025	1057
SPEAG	D750V2	750 MHz SAR Dipole	5/29/2025	Annual	5/29/2026	1057
SPEAG	D83V2	835 MHz SAR Dipole	11/18/2022	Triennial	11/18/2025	41098
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1321
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1321
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	EX30V4	SAR Probe	12/9/2024	Annual	12/9/2025	7490
SPEAG	EX30V4	SAR Probe	9/9/2024	Annual	9/9/2025	3837
SPEAG	EX30V4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX30V4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX20V4	SAR Probe	3/10/2024	Annual	3/10/2025	7421
SPEAG	EX30V4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
SPEAG	EX30V4	SAR Probe	3/6/2026	Annual	3/6/2026	7638

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

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13 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	∞	
Hemispherical 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	191
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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14 CONCLUSION

14.1 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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