



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:

06/25/2025 – 07/17/2025

Test Report Issue Date:

08/04/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2503270036-18.BCG-R1

FCC ID:**BCG-A3326****APPLICANT:****APPLE, INC.****DUT Type:**

Watch

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

A3326, A3327

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head	10g Extremity (W/kg)
PCT	LTE Band 71	695.5 - 696.5 MHz	0.47	0.47
PCT	LTE Band 12	699.7 - 715.5 MHz	>0.1	0.50
PCT	LTE Band 17	705.5 - 715.5 MHz	N/A	N/A
PCT	LTE Band 25	790.5 - 795.5 MHz	>0.1	0.50
PCT	LTE Band 14	790.5 - 795.5 MHz	>0.1	0.50
PCT	LTE Band 26 (Cell)	814.7 - 848.3 MHz	>0.1	0.52
PCT	LTE Band 28	842.0 - 859.0 MHz	>0.1	0.51
PCT	LTE Band 66 (AWS3)	1710.7 - 1779.3 MHz	0.80	0.17
PCT	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A
PCT	LTE Band 29 (PCS)	1880.7 - 1914.3 MHz	0.37	0.31
PCT	LTE Band 34 (PCS)	2515.0 - 2690.0 MHz	N/A	N/A
PCT	LTE Band 7	2602.5 - 2697.5 MHz	0.74	0.15
PCT	LTE Band 41	2498.5 - 2607.5 MHz	0.54	<0.1
PCT	NR Band 1	700.5 - 715.5 MHz	>0.1	0.50
PCT	NR Band 0/2	701.5 - 715.5 MHz	>0.1	0.40
PCT	NR Band 14	790.5 - 795.5 MHz	>0.1	0.50
PCT	NR Band 2/4 (Cell)	824.0 - 848.0 MHz	>0.1	0.54
PCT	NR Band n6 (AWS)	826.5 - 848.5 MHz	>0.1	0.58
PCT	NR Band n6 (Cell)	1712.5 - 1777.5 MHz	0.73	0.17
PCT	NR Band n2 (PCS)	1882.5 - 1907.5 MHz	N/A	N/A
PCT	NR Band n7	2602.5 - 2697.5 MHz	1.05	0.18
PCT	NR Band n8	2698.5 - 2707.5 MHz	0.15	0.15
DTS	2.4 GHz WiFi	2412 - 2472 MHz	0.17	0.17
DSS/DTS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.16	<0.1
DOX	NFC	13.56 MHz	N/A	<0.1
Simultaneous SARs per KDB 880793.D01.v1/03			0.56	0.56

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing 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	16.50	15.50	16.50	15.50
		12	18.50	17.50	13.50	12.50	13.50	12.50
		13	17.00	16.00	6.50	5.50	6.50	5.50

1.3.4

Maximum Output Power – Bluetooth Mode

Mode / Band		Modulated Average - Single Tx Chain (dBm)	
Bluetooth BDR		Maximum	
		Nominal	
Bluetooth EDR		Maximum	
		Nominal	
Bluetooth LE		Maximum	
		Nominal	
Bluetooth LE2M		Maximum	
		Nominal	
Bluetooth HDR4		Maximum	
		Nominal	
Bluetooth HDR8		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 4.3.2 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

*NFC was evaluated for extremity only 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 was 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.

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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: 3 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, 6 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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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 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

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

7.3.3 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 ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.3.3). 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 ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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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 - 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	24.52	0	0
	1	50	24.57		0
	1	99	24.46		0
	50	0	23.62	0-1	1
	50	25	23.60		1
	50	50	23.51		1
	100	0	23.59		1
	15	0	24.92	0-1	0
	15	42	24.93		0
	15	85	25.04		0
	27	0	23.61	0-2	1
	27	37	23.55		1
	27	73	23.47		1
16QAM	1	0	23.69	0-2	1
	1	50	23.66		1
	1	99	23.67		1
	15	0	23.45	0-3	1
	15	42	23.47		1
	15	85	23.46		1
	27	0	22.47	0-5	2
	27	37	22.45		2
	27	73	22.48		2

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8.1.2

LTE Band 12
Table 8-2
LTE Band 12 - 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	24.73	0	0
	1	25	24.71		0
	1	49	24.69		0
	25	0	23.71	0-1	1
	25	12	23.66		1
	25	25	23.62		1
	50	0	23.65		1
	15	0	23.70	0-1	1
	15	17	23.65		1
	15	35	23.60		1
	27	0	23.61	0-2	1
	27	12	23.62		1
	27	23	23.54		1
16QAM	1	0	23.93	0-2	1
	1	25	23.88		1
	1	49	23.90		1
	25	0	23.10	0-3	2
	25	12	23.08		2
	25	25	23.08		2
	15	0	23.09	0-5	2
	15	17	23.03		2
	15	35	23.07		2
	27	0	22.99		2
	27	12	22.97		2
	27	23	22.95		2

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8.1.3

LTE Band 13
Table 8-3
LTE Band 13 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.75	0	0
	1	25	24.66		0
	1	49	24.67		0
	25	0	23.85	0-1	1
	25	12	23.84		1
	25	25	23.83		1
	50	0	23.84		1
	15	0	23.84	0-1	1
	15	17	23.86		1
	15	35	23.86		1
	27	0	23.80	0-2	1
	27	12	23.83		1
	27	23	23.83		1
16QAM	1	0	23.94	0-2	1
	1	25	23.86		1
	1	49	23.88		1
	25	0	23.00	0-3	2
	25	12	23.05		2
	25	25	23.06		2
	15	0	23.06	0-5	2
	15	17	23.04		2
	15	35	23.07		2
	27	0	22.90		2
	27	12	22.95		2
	27	23	22.95		2

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8.1.4

LTE Band 14
Table 8-4
LTE Band 14 - 10 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 14 10 MHz Bandwidth		
			Mid Channel	23330 (793.0 MHz)	MPR Allowed per 3GPP [dB]
			Conducted Power [dBm]		
			1	24.42	
QPSK	1	25	24.46	0	0
		49	24.25		0
		0	23.52		1
		12	23.59		1
		25	23.63		1
		50	23.58		1
		0	23.55	0-1	1
		17	23.49		1
		35	23.59		1
		0	23.58	0-2	1
		12	23.56		1
		23	23.64		1
		0	23.39	0-2	1
		25	23.38		1
		49	23.41		1
16QAM	1	0	22.56	0-3	2
		12	22.54		2
		25	22.50		2
		0	22.56	0-5	2
		17	22.52		2
		35	22.49		2
		0	22.39		2
		12	22.35		2
		23	22.38		2

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8.1.4 LTE Band 26
Table 8-5
LTE Band 26 (Cell) - 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	24.69	24.49	24.31	0	0
	1	25	24.65	24.46	24.30		0
	1	49	24.70	24.46	24.33		0
	25	0	23.70	23.60	23.46		1
	25	12	23.58	23.59	23.41	0-1	1
	25	25	23.58	23.54	23.45		1
	50	0	23.62	23.53	23.45		1
	15	0	23.77	23.54	23.45		1
	15	17	23.59	23.53	23.51	0-1	1
	15	35	23.66	23.62	23.39		1
	27	0	23.58	23.54	23.47		1
	27	12	23.53	23.56	23.36	0-2	1
	27	23	23.55	23.48	23.37		1
16QAM	1	0	23.36	23.46	23.84	0-2	1
	1	25	23.30	23.43	23.77		1
	1	49	23.34	23.42	23.79		1
	25	0	22.87	22.45	22.56	0-3	2
	25	12	22.95	22.42	22.54		2
	25	25	22.99	22.46	22.60		2
	15	0	22.97	22.41	22.52		2
	15	17	22.94	22.39	22.49	0-5	2
	15	35	22.96	22.35	22.51		2
	27	0	22.98	22.36	22.47		2
	27	12	22.95	22.38	22.45		2
	27	23	22.93	22.40	22.42		2

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LTE Band 5
Table 8-6
LTE Band 5 (Cell) - 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	24.71	0	0
	1	25	24.68		0
	1	49	24.72		0
	25	0	23.93	0-1	1
	25	12	23.85		1
	25	25	23.86		1
	50	0	23.62		1
	15	0	23.98	0-1	1
	15	17	23.84		1
	15	35	23.88		1
	27	0	23.89	0-2	1
	27	12	23.81		1
	27	23	23.80		1
16QAM	1	0	24.16	0-2	1
	1	25	24.12		1
	1	49	24.11		1
	25	0	23.05	0-3	2
	25	12	23.04		2
	25	25	23.07		2
	15	0	23.15	0-5	2
	15	17	23.12		2
	15	35	23.13		2
	27	0	22.98		2
	27	12	22.93		2
	27	23	22.96		2

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8.1.1

LTE Band 66
Table 8-7
LTE Band 66 (AWS)- 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	24.21	24.20	24.22	0	0
	1	50	24.25	24.24	24.04		0
	1	99	24.34	24.12	23.67		0
	50	0	23.66	23.54	23.51		1
	50	25	23.66	23.53	23.47	0-1	1
	50	50	23.67	23.51	23.39		1
	100	0	23.57	23.54	23.46		1
	15	0	24.60	24.66	24.03	0-1	0
	15	42	24.67	24.70	23.97		0
	15	85	24.68	24.59	23.88		0
16QAM	27	0	23.59	23.66	23.31	0-2	1
	27	37	23.62	23.65	23.44		1
	27	73	23.63	23.59	23.36		1
	1	0	23.22	23.23	23.47	0-2	1
	1	50	23.24	23.19	23.37		1
	1	99	23.27	23.17	23.41		1
	15	0	23.41	23.49	23.44	0-3	1
	15	42	23.43	23.46	23.33		1
	15	85	23.48	23.47	23.35		1
	27	0	22.52	22.57	22.34	0-5	2
	27	37	22.51	22.54	22.24		2
	27	73	22.57	22.52	22.23		2

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8.1.2

LTE Band 25
Table 8-8
LTE Band 25 (PCS)- 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	24.14	23.65	24.07	0	0
	1	50	24.20	23.63	24.13		0
	1	99	24.19	23.67	24.08		0
	50	0	23.16	23.16	23.01	0-1	1
	50	25	23.11	23.12	23.02		1
	50	50	23.20	23.10	23.01		1
	100	0	23.14	23.13	23.00		1
	15	0	24.16	23.69	24.02	0-1	0
	15	42	24.12	23.63	24.05		0
	15	85	24.20	23.60	24.03		0
	27	0	23.10	23.13	23.05	0-2	1
	27	37	23.09	23.08	22.97		1
	27	73	23.14	23.06	22.96		1
16QAM	1	0	23.37	23.52	23.62	0-2	1
	1	50	23.43	23.56	23.72		1
	1	99	23.52	23.59	23.59		1
	15	0	23.71	23.17	23.68	0-3	1
	15	42	23.68	23.25	23.63		1
	15	85	23.76	23.03	23.66		1
	27	0	22.66	22.53	22.59	0-5	2
	27	37	22.61	22.58	22.57		2
	27	73	22.64	22.44	22.56		2

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8.1.3

LTE Band 7
Table 8-9
LTE Band 7- 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	24.40	24.34	24.45	0	0
	1	50	24.35	24.39	24.52		0
	1	99	24.49	24.40	24.66		0
	50	0	23.51	23.58	23.57		1
	50	25	23.50	23.59	23.59	0-1	1
	50	50	23.56	23.60	23.61		1
	100	0	23.54	23.59	23.60		1
	15	0	24.61	24.29	24.53	0-1	0
	15	42	24.52	24.30	24.73		0
	15	85	24.58	24.34	24.68		0
16QAM	27	0	23.51	23.54	23.49	0-2	1
	27	37	23.45	23.53	23.57		1
	27	73	23.50	23.57	23.61		1
	1	0	23.39	23.78	23.62	0-2	1
	1	50	23.36	23.71	23.65		1
	1	99	23.45	23.79	23.72		1
	15	0	23.38	23.45	23.46		1
	15	42	23.39	23.44	23.51	0-3	1
	15	85	23.30	23.47	23.52		1
	27	0	22.32	22.43	22.54		2
	27	37	22.33	22.44	22.53	0-5	2
	27	73	22.36	22.50	22.56		2

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8.1.4

LTE Band 41
Table 8-10
LTE Band 41- 20 MHz Bandwidth

Modulation	RB Size	RB Offset	LTE Band 41 20 MHz Bandwidth					MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	23.71	23.99	23.90	23.77	23.84	0	0
	1	50	24.03	24.00	23.90	23.82	23.88		0
	1	99	23.96	23.92	23.77	23.85	23.79		0
	50	0	23.13	23.23	23.15	23.04	23.15	0-1	1
	50	25	23.24	23.17	23.17	23.09	23.16		1
	50	50	23.18	23.21	23.12	23.13	23.12		1
	100	0	23.18	23.23	23.18	23.10	23.15	0-1	1
	15	0	23.83	23.98	23.93	23.76	23.88		0
	15	42	23.98	24.02	23.94	23.84	23.94		0
	15	85	23.92	23.94	23.85	23.80	23.86	0-2	0
	27	0	23.10	23.20	23.14	23.00	23.13		1
	27	37	23.19	23.22	23.16	23.04	23.11		1
	27	73	23.15	23.16	23.08	23.02	23.08	0-5	1
16QAM	1	0	23.21	23.31	22.98	23.32	23.24	0-2	1
	1	50	23.43	23.39	22.95	23.33	23.27		1
	1	99	23.47	23.37	22.84	23.36	23.22		1
	15	0	23.11	23.16	23.35	23.18	23.15	0-3	1
	15	42	23.22	23.23	23.26	23.14	23.10		1
	15	85	23.28	23.25	23.23	23.13	23.13		1
	27	0	22.1	22.28	22.28	22.12	22.19	0-5	2
	27	37	22.2	22.29	22.24	22.09	22.17		2
	27	73	22.29	22.26	22.22	22.10	22.16		2



Figure 8-1
Power Measurement Setup

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8.2 NR Conducted Powers

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

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

8.2.1

NR Band n71

Table 8-11
NR Band n71 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz)		
DFT-s-OFDM QPSK	1	1	24.35	0	0.0
	1	53	24.31		0.0
	1	104	24.21		0.0
	50	0	23.76	0-1	1.0
	50	28	24.62	0	0.0
	50	56	23.73	0-1	1.0
	100	0	23.75		1.0
DFT-s-OFDM 16QAM	1	1	23.25	0-1	1.0
CP-OFDM QPSK	1	1	23.11	0-1.5	1.5

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8.2.2

NR Band n12

Table 8-12
NR Band n12 - 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	24.54	0	0.0
	1	40	24.55		0.0
	1	77	24.56		0.0
	36	0	23.57	0-1	1.0
	36	22	24.57	0	0.0
	36	43	23.67	0-1	1.0
	75	0	23.71		1.0
DFT-s-OFDM 16QAM	1	1	23.74	0-1	1.0
CP-OFDM QPSK	1	1	23.35	0-1.5	1.5

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8.2.3

NR Band n14

Table 8-13
NR Band n14 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
DFT-s-OFDM QPSK	1	1	24.32	0	0.0
	1	26	24.41		0.0
	1	50	24.37		0.0
	25	0	23.47	0-1	1.0
	25	14	24.47	0	0.0
	25	27	23.54	0-1	1.0
	50	0	23.49		1.0
DFT-s-OFDM 16QAM	1	1	23.32	0-1	1.0
CP-OFDM QPSK	1	1	23.12	0-1.5	1.5

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8.2.4

NR Band n26

Table 8-14
NR Band n26 - 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	24.07	0
	1	53	24.01	
	1	104	24.04	
	50	0	23.61	0-1
	50	28	24.09	0
	50	56	23.60	0-1
	100	0	23.63	
DFT-s-OFDM 16QAM	1	1	23.40	0-1
CP-OFDM QPSK	1	1	23.22	0-1.5

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8.2.5

NR Band n5

Table 8-15
NR Band n5 - 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	23.94	0
	1	53	23.97	
	1	104	23.93	
	50	0	23.52	0-1
	50	28	24.01	0
	50	56	23.50	0-1
	100	0	23.54	
DFT-s-OFDM 16QAM	1	1	23.16	0-1
CP-OFDM QPSK	1	1	22.89	0-1.5

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8.2.6

NR Band n66

Table 8-16
NR Band n66 - 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	23.85	23.85	23.63	0	0.0
	1	53	23.86	23.74	23.58		0.0
	1	104	24.12	23.65	23.56		0.0
	50	0	22.85	22.83	22.61	0-1	1.0
	50	28	24.11	23.80	23.62	0	0.0
	50	56	22.82	22.74	22.58	0-1	1.0
	100	0	22.84	22.80	22.60		1.0
DFT-s-OFDM 16QAM	1	1	22.61	22.68	22.42	0-1	1.0
CP-OFDM QPSK	1	1	22.57	22.34	22.25	0-1.5	1.5

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NR Band n25

Table 8-17
NR Band n25 - 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	23.59	23.48	23.27	0	0.0
	1	53	23.55	23.42	23.07		0.0
	1	104	23.49	23.30	23.00		0.0
	50	0	22.60	22.39	22.14	0-1	1.0
	50	28	23.60	23.48	23.13	0	0.0
	50	56	22.58	22.36	22.04	0-1	1.0
	100	0	22.59	22.40	22.09		1.0
DFT-s-OFDM 16QAM	1	1	22.33	22.13	22.89	0-1	1.0
CP-OFDM QPSK	1	1	22.09	21.89	21.67	0-1.5	1.5

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8.2.8

NR Band n7

Table 8-18
NR Band n7 - 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
Conducted Power [dBm]							
DFT-s-OFDM QPSK	1	1	23.88	23.85	24.18	0	0.0
	1	53	23.68	23.79	24.03		0.0
	1	104	23.69	23.74	24.00		0.0
	50	0	22.76	22.97	23.05	0-1	1.0
	50	28	23.77	24.01	24.19	0	0.0
	50	56	22.66	22.94	22.74	0-1	1.0
	100	0	22.70	22.98	22.99		1.0
DFT-s-OFDM 16QAM	1	1	22.56	22.45	22.74	0-1	1.0
CP-OFDM QPSK	1	1	22.31	22.22	22.54	0-1.5	1.5

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8.2.1

NR Band n41

Table 8-19
NR Band n41 - 20 MHz Bandwidth

Modulation	RB Size	RB Offset	NR Band n41 20 MHz Bandwidth					MPR Allowed per 3GPP [dB]	MPR [dB]		
			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	24.16	24.35	24.20	24.21	24.12	0	0.0		
	1	26	24.19	24.29	24.27	24.08	24.20		0.0		
	1	49	24.15	24.30	24.17	24.07	24.16		0.0		
	25	0	23.78	23.46	23.37	23.19	23.22	0-1	1.0		
	25	13	24.26	24.34	24.24	24.16	24.26	0	0.0		
	25	26	23.37	23.43	23.36	23.23	23.09	0-1	1.0		
	50	0	23.46	23.45	23.26	23.19	23.13		1.0		
DFT-s-OFDM 16QAM	1	1	23.61	23.41	23.47	23.37	23.38	0-1	1.0		
CP-OFDM QPSK	1	1	23.22	23.47	23.52	23.36	23.13	0-1.5	1.5		

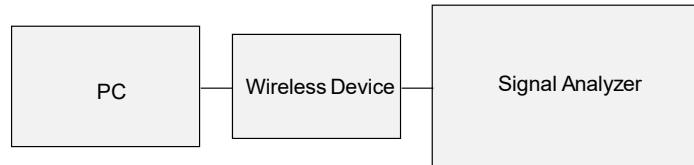


Figure 8-2
Power Measurement Setup

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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	18.09
2437	6	17.96
2462	11	18.02
2.4GHz WIFI (20MHz 802.11g SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.14
2437	6	17.33
2462	11	15.41
2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.09
2437	6	17.18
2462	11	15.32

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.

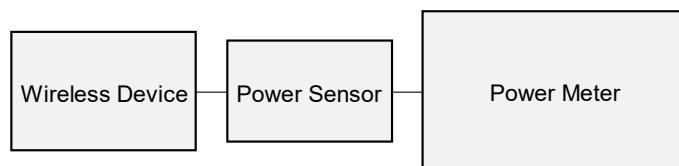


Figure 8-3
Power Measurement Setup

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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	16.05	40.272
2441	GFSK	1.0	39	16.04	40.179
2480	GFSK	1.0	78	15.90	38.905

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

Table 8-22

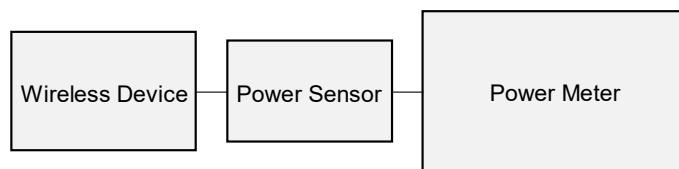


Figure 8-4
Power Measurement Setup

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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 Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/13/2025	30 Head	24.0	4 0.760	55.564	0.750	55.000	-1.33%	-1.03%
			6 0.760	55.301	0.750	55.000	-1.33%	-0.55%
			12 0.760	54.698	0.750	55.000	-1.33%	-0.57%
			13 0.761	54.622	0.750	55.000	-1.47%	-0.69%
			14 0.761	54.557	0.750	55.000	-1.47%	-0.81%
			30 0.761	54.525	0.750	54.500	-0.40%	-0.71%
			60 0.760	53.115	0.753	54.325	-1.89%	-2.23%
			65 0.760	53.022	0.753	54.213	-2.12%	-2.20%
			150 0.760	51.439	0.760	52.300	-4.74%	-1.65%
			680 0.671	41.874	0.888	42.305	-5.91%	-1.02%
7/9/2025	750 Head	24.1	695 0.676	41.830	0.889	42.227	-4.46%	-0.94%
			700 0.676	41.815	0.889	42.151	-3.24%	-0.92%
			710 0.676	41.747	0.890	42.149	-0.67%	-0.76%
			725 0.686	41.743	0.891	42.071	-0.67%	-0.36%
			750 0.693	41.673	0.894	41.942	-0.11%	-0.64%
			770 0.699	41.624	0.895	41.838	-0.45%	-0.51%
			785 0.905	41.593	0.896	41.760	1.00%	-0.40%
			800 0.910	41.552	0.897	41.682	1.45%	-0.31%
			680 0.896	40.900	0.888	42.305	-2.46%	-0.03%
			695 0.896	40.880	0.889	42.227	-2.40%	-0.26%
7/11/2025	750 Head	24.2	700 0.872	40.542	0.889	42.201	-5.91%	-3.89%
			710 0.875	40.517	0.890	42.149	-1.69%	-3.67%
			725 0.879	40.477	0.891	42.071	-1.35%	-3.79%
			750 0.888	40.403	0.894	41.942	-0.67%	-3.67%
			770 0.895	40.327	0.895	41.838	0.00%	-3.61%
			785 0.890	40.276	0.896	41.760	0.33%	-3.56%
			800 0.904	40.230	0.897	41.682	0.40%	-3.50%
			680 0.893	40.769	0.888	42.305	-4.17%	1.07%
			695 0.896	40.721	0.889	42.227	-3.71%	1.17%
			700 0.857	42.710	0.889	42.201	-3.60%	1.21%
7/13/2025	750 Head	22.7	710 0.860	42.686	0.890	42.149	-3.37%	1.27%
			725 0.865	42.646	0.891	42.071	-2.92%	1.37%
			750 0.872	42.564	0.894	41.942	-2.46%	1.48%
			770 0.876	42.489	0.895	41.838	-3.90%	1.53%
			785 0.889	42.387	0.896	41.760	-3.22%	1.52%
			800 0.899	42.387	0.897	41.682	-3.89%	1.74%
			680 0.847	43.639	0.888	42.305	-4.62%	3.15%
			695 0.852	43.601	0.889	42.227	-4.16%	3.25%
			700 0.854	43.585	0.889	42.201	-3.94%	3.28%
			710 0.856	43.556	0.890	42.149	-3.69%	3.34%
7/14/2025	750 Head	20.6	725 0.863	43.513	0.891	42.071	-3.14%	3.43%
			750 0.871	43.429	0.894	41.942	-2.42%	3.55%
			770 0.876	43.321	0.895	41.838	-2.05%	3.58%
			785 0.885	43.324	0.896	41.760	-1.23%	3.75%
			800 0.891	43.294	0.897	41.682	-0.67%	3.87%
			680 0.884	40.677	0.888	42.305	-0.45%	-3.86%
			695 0.889	40.640	0.889	42.227	0.00%	-3.76%
			700 0.891	40.630	0.889	42.201	0.22%	-3.72%
			710 0.894	40.616	0.890	42.149	0.45%	-3.67%
			725 0.894	40.549	0.891	42.071	-0.76%	-3.76%
7/15/2025	750 Head	24.0	750 0.904	40.461	0.894	41.942	1.12%	-3.53%
			770 0.910	40.380	0.895	41.838	1.68%	-3.48%
			785 0.916	40.355	0.896	41.760	2.23%	-3.38%
			800 0.922	40.332	0.897	41.682	2.79%	-3.24%
			680 0.846	43.650	0.888	42.305	-4.73%	3.20%
			695 0.889	40.640	0.889	42.227	0.00%	-3.76%
			700 0.891	40.630	0.889	42.201	0.22%	-3.72%
			710 0.894	40.616	0.890	42.149	0.45%	-3.67%
			725 0.894	40.549	0.891	42.071	-0.76%	-3.76%
			750 0.870	40.482	0.894	41.942	-2.69%	3.70%
7/18/2025	750 Head	21.0	770 0.910	40.380	0.895	41.838	1.68%	-3.81%
			785 0.883	43.393	0.896	41.760	-1.45%	3.91%
			800 0.889	43.330	0.897	41.682	-0.89%	3.86%
			680 0.851	43.623	0.889	42.305	-4.27%	3.21%
			695 0.853	43.612	0.889	42.227	-4.25%	3.24%
			700 0.856	43.583	0.890	42.149	-3.71%	3.40%
			725 0.863	43.549	0.891	42.071	-3.14%	3.51%
			750 0.870	43.482	0.894	41.942	-2.69%	3.70%
			770 0.877	43.431	0.895	41.838	-2.01%	3.81%
			785 0.883	43.393	0.896	41.760	-1.45%	3.91%
7/17/2025	750 Head	24.0	800 0.885	43.330	0.897	41.682	-0.89%	3.86%
			680 0.851	41.754	0.888	42.305	-3.40%	-3.60%
			695 0.856	41.059	0.889	42.227	-3.45%	-2.89%
			700 0.860	41.006	0.889	42.201	-3.26%	-2.89%
			710 0.862	41.002	0.890	42.149	-3.15%	-2.22%
			725 0.868	40.965	0.891	42.071	-2.81%	-2.59%
			750 0.873	40.874	0.894	41.942	-2.35%	-2.56%
			770 0.880	40.764	0.895	41.838	-1.69%	-2.57%
			785 0.885	40.704	0.896	41.760	-1.23%	-2.53%
			800 0.890	40.647	0.897	41.682	-1.45%	-2.41%
7/9/2025	835 Head	20.8	815 0.886	42.460	0.898	41.594	-3.34%	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%	1.71%
			850 0.921	42.023	0.916	41.500	0.55%	1.26%

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Approved by:

Technical Manager

DUT Type:
Watch

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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
7/11/2025	835 Head	22.4	815	0.884	43.277	0.899	41.594	-1.56%	4.05%
			820	0.901	43.429	0.899	41.578	-0.54%	3.49%
			825	0.902	43.017	0.900	41.500	-0.22%	3.66%
			850	0.918	42.840	0.916	41.500	-0.22%	3.23%
			815	0.871	40.941	0.898	41.594	-3.01%	1.57%
7/13/2025	835 Head	20.5	820	0.875	40.875	0.899	41.578	-2.67%	1.69%
			835	0.889	40.673	0.900	41.500	-1.22%	1.99%
			850	0.904	40.495	0.916	41.500	-1.31%	2.45%
			815	0.873	40.100	0.898	41.594	-2.03%	2.26%
7/14/2025	835 Head	21.0	820	0.883	40.310	0.899	41.500	-3.34%	3.04%
			835	0.893	40.111	0.900	41.500	-0.76%	3.26%
			850	0.908	39.914	0.916	41.500	-0.87%	3.26%
			1700	1.286	41.742	1.343	40.145	-4.02%	3.98%
7/8/2025	1750 Head	20.6	1705	1.292	41.730	1.345	40.141	-3.94%	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	41.580	1.380	40.075	-3.27%	3.78%
			1750	1.327	41.681	1.371	40.079	-3.21%	3.92%
			1770	1.338	41.639	1.383	40.047	-3.29%	3.98%
			1790	1.347	41.619	1.384	40.016	-3.37%	4.01%
7/8/2025	1750 Head	23.0	1700	1.325	38.713	1.343	40.145	-1.56%	-3.57%
			1705	1.327	38.690	1.345	40.141	-1.34%	-3.61%
			1710	1.332	38.699	1.348	40.136	-1.19%	-3.66%
			1720	1.341	38.676	1.354	40.126	-1.02%	-3.67%
			1745	1.360	38.489	1.388	40.075	-0.15%	-3.97%
			1750	1.371	38.470	1.371	40.079	0.00%	-4.01%
			1770	1.391	38.370	1.383	40.047	0.58%	-4.19%
6/25/2025	1900 Head	20.7	1790	1.410	38.281	1.384	40.016	1.15%	-4.34%
			1850	1.376	39.386	1.400	40.000	-1.57%	1.50%
			1860	1.388	39.347	1.400	40.000	-0.86%	1.63%
			1880	1.401	39.261	1.400	40.000	0.00%	1.58%
			1900	1.420	39.201	1.400	40.000	-0.50%	2.09%
			1905	1.440	39.184	1.400	40.000	2.86%	2.44%
			1910	1.448	39.196	1.400	40.000	3.29%	2.09%
6/27/2025	1900 Head	20.7	1920	1.456	39.124	1.400	40.000	-4.00%	-2.19%
			1950	1.362	39.285	1.400	40.000	-2.71%	1.79%
			1860	1.371	39.231	1.400	40.000	-2.07%	1.92%
			1870	1.381	39.138	1.400	40.000	-3.64%	1.56%
			1890	1.393	39.053	1.400	40.000	-2.34%	1.56%
			1900	1.403	39.023	1.400	40.000	-2.09%	1.56%
			1910	1.419	39.046	1.400	40.000	1.36%	2.39%
6/25/2025	2450 Head	20.5	1920	1.438	39.056	1.400	40.000	2.50%	-2.51%
			2300	1.669	38.495	1.670	39.500	-0.06%	-0.01%
			2310	1.677	39.491	1.679	39.480	-0.12%	0.03%
			2320	1.683	39.476	1.687	39.460	-0.24%	0.05%
			2400	1.748	38.327	1.756	39.289	-0.57%	0.10%
			2450	1.789	38.243	1.800	39.200	-0.45%	0.15%
			2480	1.802	38.169	1.833	39.162	-1.69%	0.02%
6/25/2025	2450 Head	24.7	2500	1.821	39.145	1.855	39.136	-1.83%	0.02%
			2510	1.831	39.142	1.866	39.123	-1.88%	0.05%
			2535	1.851	39.126	1.893	39.092	-2.22%	0.09%
			2550	1.860	39.101	1.909	39.073	-2.57%	0.07%
			2560	1.868	39.072	1.920	39.060	-2.81%	0.05%
			2570	1.877	39.050	1.924	39.050	-2.74%	0.04%
			2580	1.891	38.933	2.018	38.945	-3.82%	-0.09%
6/25/2025	2450 Head	24.7	2580	1.900	38.858	2.051	38.907	-4.44%	0.23%
			2700	1.978	38.801	2.073	38.882	-4.68%	-0.21%
			2300	1.696	38.636	1.670	39.500	1.56%	-2.19%
			2310	1.707	38.603	1.679	39.480	1.67%	-2.22%
			2320	1.710	38.595	1.687	39.460	1.90%	-2.27%
			2400	1.786	38.456	1.792	39.356	-0.76%	0.01%
			2450	1.805	38.626	1.800	39.200	-3.61%	2.97%
6/27/2025	2450 Head	20.5	2480	1.898	38.791	1.833	39.162	3.55%	-3.26%
			2500	1.922	38.809	1.855	39.136	3.61%	-3.39%
			2510	1.934	37.771	1.866	39.123	3.64%	-3.46%
			2535	1.964	37.676	1.893	39.092	3.75%	-3.62%
			2550	1.980	37.614	1.909	39.073	3.72%	-3.79%
			2560	1.987	37.601	1.924	39.073	3.74%	-3.74%
			2580	1.991	37.461	1.964	39.098	3.72%	-4.12%
6/27/2025	2450 Head	20.5	2580	2.006	37.213	2.018	38.945	3.76%	-4.65%
			2600	2.128	37.078	2.051	38.907	3.75%	-4.70%
			2700	2.151	36.992	2.073	38.882	3.76%	-4.86%
			2300	1.687	39.614	1.670	39.500	1.02%	0.29%
			2310	1.695	39.600	1.679	39.480	0.95%	0.33%
			2320	1.702	39.593	1.687	39.460	0.90%	0.35%
			2400	1.767	38.771	1.756	39.300	-0.01%	4.24%
6/30/2025	2450 Head	21.0	2450	1.793	38.400	1.800	39.200	-0.39%	0.51%
			2480	1.813	39.331	1.833	39.162	-1.09%	0.43%
			2500	1.831	39.307	1.855	39.136	-1.29%	0.44%
			2510	1.840	39.301	1.866	39.123	-1.39%	0.45%
			2535	1.865	39.287	1.893	39.092	-1.58%	0.50%
			2550	1.874	39.271	1.909	39.073	-1.83%	0.51%
			2560	1.881	39.251	1.920	39.060	-2.01%	0.48%
6/30/2025	2450 Head	21.0	2580	1.900	39.184	1.924	39.088	-2.89%	0.47%
			2600	1.956	39.089	2.018	38.945	-3.07%	0.37%
			2680	1.977	39.028	2.051	38.907	-3.61%	0.31%
			2700	1.992	38.972	2.073	38.882	-3.91%	0.23%
			2300	1.659	41.242	1.670	39.500	-0.66%	4.41%
			2310	1.666	41.226	1.679	39.480	-0.77%	4.43%
			2320	1.673	41.213	1.687	39.460	-0.83%	4.47%
6/30/2025	2450 Head	21.0	2400	1.749	40.664	1.756	39.289	-1.24%	4.57%
			2450	1.772	41.007	1.800	39.200	-1.56%	4.61%
			2480	1.797	40.949	1.833	39.162	-1.96%	4.56%
			2500	1.814	40.924	1.855	39.136	-2.21%	4.57%
			2510	1.821	40.914	1.866	39.123	-2.36%	4.58%
			2535	1.840	40.887	1.893	39.092	-2.80%	4.59%
			2550	1.851	40.862	1.909	39.073	-2.99%	4.61%
6/30/2025	2450 Head	21.0	2550	1.870	40.813	1.924	39.000	-3.20%	4.62%
			2600	1.894	40.753	1.964	38.939	-3.56%	4.47%
			2680	1.904	40.699	2.018	38.945	-4.16%	4.50%
			2690	1.957	40.640	2.051	38.907	-4.59%	4.45%
			2700	1.974	40.597	2.073	38.882	-4.78%	4.41%

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

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)
AM10	750	HEAD	07/15/2025	20.5	23.9	0.20	1097	3837	793	1.740	8.270	8.700	5.20%
AM6	750	HEAD	07/16/2025	20.5	19.1	0.20	1057	7682	1683	1.740	8.800	8.700	-1.14%
AM10	750	HEAD	07/17/2025	20.5	22.1	0.20	1057	3837	793	1.700	8.800	8.500	-3.41%
AM12	835	HEAD	07/09/2025	21.9	19.6	0.20	4d108	7427	1408	1.950	9.800	9.750	-0.51%
AM15	835	HEAD	07/11/2025	22.0	21.6	0.20	4d108	7638	467	2.030	9.800	10.150	3.57%
AM15	835	HEAD	07/13/2025	21.7	20.0	0.20	4d108	7638	467	1.900	9.800	9.500	-3.06%
AM12	835	HEAD	07/14/2025	23.2	20.8	0.20	4d108	7427	1408	1.920	9.800	9.600	-2.04%
AM11	1750	HEAD	07/06/2025	22.0	20.6	0.10	1040	7551	1323	3.360	36.400	33.600	-7.69%
AM15	1750	HEAD	07/08/2025	23.0	22.0	0.10	1104	7638	467	3.770	35.600	37.700	5.90%
AM15	1900	HEAD	06/25/2025	22.1	21.5	0.10	5d180	7638	467	4.070	39.200	40.700	3.83%
AM11	2450	HEAD	06/25/2025	23.1	20.4	0.10	750	7551	1323	5.340	53.300	53.400	0.19%
AM16	2450	HEAD	06/25/2025	22.5	23.4	0.10	855	7532	501	5.080	52.400	50.800	-3.05%
AM11	2450	HEAD	06/27/2025	22.2	20.5	0.10	855	7551	1323	4.950	52.400	49.500	-5.53%
AM11	2450	HEAD	06/30/2025	23.1	21.0	0.10	750	7551	1323	5.330	53.300	53.300	0.00%
AM11	2600	HEAD	06/25/2025	23.1	20.4	0.10	1068	7551	1323	5.600	56.500	56.000	-0.88%
AM16	2600	HEAD	06/25/2025	22.5	23.4	0.10	1068	7532	501	5.630	56.500	56.300	-0.35%
AM11	2600	HEAD	06/27/2025	22.2	20.5	0.10	1068	7551	1323	5.340	56.500	53.400	-5.49%

Table 9-3
System Verification Results – 10g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
AM14	13	HEAD	07/13/2025	21.4	22.8	1.00	1004	3746	1237	0.350	0.355	0.350	-1.41%
AM10	750	HEAD	07/09/2025	20.9	23.0	0.20	1057	3837	793	1.090	5.730	5.450	-4.89%
AM10	750	HEAD	07/11/2025	23.1	24.2	0.20	1097	3837	793	1.150	5.380	5.750	6.88%
AM10	750	HEAD	07/13/2025	22.0	21.0	0.20	1057	3837	793	1.160	5.730	5.800	1.22%
AM6	750	HEAD	07/14/2025	20.3	19.0	0.20	1057	7682	1683	1.160	5.730	5.800	1.22%
AM10	750	HEAD	07/15/2025	20.5	23.9	0.20	1097	3837	793	1.160	5.380	5.800	7.81%
AM6	750	HEAD	07/16/2025	20.5	19.1	0.20	1057	7682	1683	1.170	5.730	5.850	2.09%
AM15	835	HEAD	07/11/2025	22.0	21.6	0.20	4d108	7638	467	1.260	6.340	6.300	-0.63%
AM12	835	HEAD	07/14/2025	23.2	20.8	0.20	4d108	7427	1408	1.260	6.340	6.300	-0.63%
AM11	1750	HEAD	07/06/2025	22.0	20.6	0.10	1040	7551	1323	1.820	19.100	18.200	-4.71%
AM15	1750	HEAD	07/08/2025	23.0	22.0	0.10	1104	7638	467	1.990	18.800	19.900	5.85%
AM15	1900	HEAD	06/25/2025	22.1	21.5	0.10	5d180	7638	467	2.110	20.600	21.100	2.43%
AM15	1900	HEAD	06/27/2025	22.7	21.0	0.10	5d180	7638	467	2.040	20.600	20.400	-0.97%
AM11	2450	HEAD	06/25/2025	23.1	20.4	0.10	750	7551	1323	2.500	25.100	25.000	-0.40%
AM11	2450	HEAD	06/27/2025	22.2	20.5	0.10	855	7551	1323	2.320	24.600	23.200	-5.69%
AM11	2450	HEAD	06/30/2025	23.1	21.0	0.10	750	7551	1323	2.500	25.100	25.000	-0.40%
AM11	2600	HEAD	06/25/2025	23.1	20.4	0.10	1068	7551	1323	2.540	25.400	25.400	0.00%
AM11	2600	HEAD	06/27/2025	22.2	20.5	0.10	1068	7551	1323	2.420	25.400	24.200	-4.72%
AM11	2600	HEAD	06/30/2025	23.1	21.0	0.10	1042	7551	1323	2.470	24.500	24.700	-0.82%

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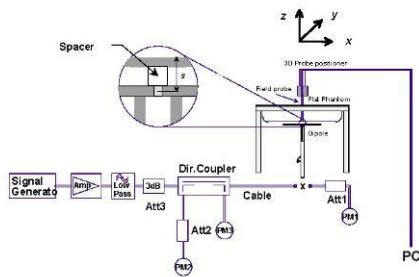


Figure 9-1
System Verification Setup Diagram



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	3W9NM	1:1	0.05	680.50	133297	0.0	25.70	24.57	1	50	Front	10	0.000	1.297	0.000	0.000	A1
Head	LTE Band 71	20	QPSK	Aluminum	Sport	3W9NM	1:1	0.03	680.50	133297	1.0	24.70	23.62	50	0	Front	10	0.000	1.297	0.000	0.000	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	3W9NM	1:1	0.04	680.50	133297	0.0	25.70	24.57	1	50	Front	10	0.000	1.297	0.000	0.000	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	3W9NM	1:1	0.03	680.50	133297	1.0	24.70	23.62	50	0	Front	10	0.000	1.282	0.000	0.000	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	3W9NM	1:1	0.07	680.50	133297	0.0	25.70	24.57	1	50	Front	10	0.000	1.297	0.000	0.000	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	3W9NM	1:1	0.01	680.50	133297	1.0	24.70	23.62	50	0	Front	10	0.000	1.282	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								

10.2 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	2FK9V	1:1	0.01	680.50	133297	0.0	25.70	24.57	1	50	Back	0	0.298	1.297	0.387	0.097	
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	2FK9V	1:1	0.01	680.50	133297	1.0	24.70	23.62	50	0	Back	0	0.227	1.282	0.291	0.073	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	2FK9V	1:1	0.02	680.50	133297	0.0	25.70	24.57	1	50	Back	0	0.275	1.297	0.357	0.089	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	2FK9V	1:1	0.09	680.50	133297	1.0	24.70	23.62	50	0	Back	0	0.256	1.282	0.331	0.083	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	2FK9V	1:1	0.04	680.50	133297	0.0	25.70	24.57	1	50	Back	0	0.359	1.297	0.466	0.117	A2
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	2FK9V	1:1	0.02	680.50	133297	1.0	24.70	23.62	50	0	Back	0	0.253	1.282	0.324	0.081	
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	GLF9X	1:1	0.07	707.50	23095	0.0	25.70	24.73	1	0	Front	10	0.000	1.250	0.000	0.000	A3
Head	LTE Band 12	10	QPSK	Aluminum	Sport	GLF9X	1:1	0.01	707.50	23095	1.0	24.70	23.71	25	0	Front	10	0.000	1.256	0.000	0.000	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GLF9X	1:1	0.06	707.50	23095	0.0	25.70	24.73	1	0	Front	10	0.000	1.250	0.000	0.000	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GLF9X	1:1	0.04	707.50	23095	1.0	24.70	23.71	25	0	Front	10	0.000	1.256	0.000	0.000	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	GLF9X	1:1	0.06	707.50	23095	0.0	25.70	24.73	1	0	Front	10	0.000	1.250	0.000	0.000	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	GLF9X	1:1	0.03	707.50	23095	1.0	24.70	23.71	25	0	Front	10	0.000	1.256	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								

10.4 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	FQYK6	1:1	0.02	707.50	23095	0.0	25.70	24.73	1	0	Back	0	0.310	1.250	0.388	0.097	
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	FQYK6	1:1	0.02	707.50	23095	1.0	24.70	23.71	25	0	Back	0	0.238	1.256	0.299	0.075	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	FQYK6	1:1	0.09	707.50	23095	0.0	25.70	24.73	1	0	Back	0	0.343	1.250	0.429	0.107	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	FQYK6	1:1	0.08	707.50	23095	1.0	24.70	23.71	25	0	Back	0	0.332	1.256	0.417	0.104	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	FQYK6	1:1	0.09	707.50	23095	0.0	25.70	24.73	1	0	Back	0	0.469	1.250	0.586	0.147	A4
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	FQYK6	1:1	0.09	707.50	23095	1.0	24.70	23.71	25	0	Back	0	0.366	1.256	0.522	0.131	
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	61KXP	1:1	0.08	782.00	23230	0.0	25.70	24.75	1	0	Front	10	0.002	1.245	0.002	0.001	A5
Head	LTE Band 13	10	QPSK	Aluminum	Sport	61KXP	1:1	0.02	782.00	23230	1.0	24.70	23.85	25	0	Front	10	0.001	1.216	0.001	0.001	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	61KXP	1:1	0.04	782.00	23230	0.0	25.70	24.75	1	0	Front	10	0.000	1.245	0.000	0.000	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	61KXP	1:1	0.01	782.00	23230	1.0	24.70	23.85	25	0	Front	10	0.000	1.216	0.000	0.000	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	61KXP	1:1	0.06	782.00	23230	0.0	25.70	24.75	1	0	Front	10	0.001	1.245	0.001	0.001	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	61KXP	1:1	0.02	782.00	23230	1.0	24.70	23.85	25	0	Front	10	0.000	1.216	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	YH9CF	1:1	0.07	782.00	23230	0.0	25.70	24.75	1	0	Back	0	0.320	1.245	0.398	0.100	
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	YH9CF	1:1	0.09	782.00	23230	1.0	24.70	23.85	25	0	Back	0	0.229	1.216	0.278	0.070	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	YH9CF	1:1	0.01	782.00	23230	0.0	25.70	24.75	1	0	Back	0	0.363	1.245	0.477	0.119	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	YH9CF	1:1	0.06	782.00	23230	1.0	24.70	23.85	25	0	Back	0	0.329	1.216	0.400	0.100	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	YH9CF	1:1	0.02	782.00	23230	0.0	25.70	24.75	1	0	Back	0	0.468	1.245	0.583	0.146	A6
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	YH9CF	1:1	-0.02	782.00	23230	1.0	24.70	23.85	25	0	Back	0	0.414	1.216	0.503	0.126	
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	FQYK6	1:1	0.04	793.00	23330	0.0	25.70	24.46	1	25	Front	10	0.002	1.330	0.003	0.002	A7
Head	LTE Band 14	10	QPSK	Aluminum	Sport	FQYK6	1:1	0.08	793.00	23330	1.0	24.70	23.63	25	25	Front	10	0.000	1.279	0.000	0.000	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	FQYK6	1:1	0.09	793.00	23330	0.0	25.70	24.46	1	25	Front	10	0.000	1.330	0.000	0.000	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	FQYK6	1:1	0.04	793.00	23330	1.0	24.70	23.63	25	25	Front	10	0.000	1.279	0.000	0.000	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	FQYK6	1:1	0.07	793.00	23330	0.0	25.70	24.46	1	25	Front	10	0.000	1.330	0.000	0.000	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	FQYK6	1:1	0.07	793.00	23330	1.0	24.70	23.63	25	25	Front	10	0.000	1.279	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								

10.8 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	61KXP	1:1	0.01	793.00	23330	0.0	25.70	24.46	1	25	Back	0	0.353	1.330	0.469	0.117	
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	61KXP	1:1	-0.15	793.00	23330	1.0	24.70	23.63	25	25	Back	0	0.347	1.279	0.316	0.079	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	61KXP	1:1	0.01	793.00	23330	0.0	25.70	24.46	1	25	Back	0	0.378	1.330	0.503	0.126	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	61KXP	1:1	0.03	793.00	23330	1.0	24.70	23.63	25	25	Back	0	0.357	1.279	0.457	0.114	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	61KXP	1:1	0.06	793.00	23330	0.0	25.70	24.46	1	25	Back	0	0.412	1.330	0.548	0.137	A8
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	61KXP	1:1	0.03	793.00	23330	1.0	24.70	23.63	25	25	Back	0	0.399	1.279	0.509	0.127	
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	YH9CF	1:1	0.07	819.00	26740	0.0	25.70	24.70	1	49	Front	10	0.002	1.259	0.003	0.002	A9
Head	LTE Band 26	10	QPSK	Aluminum	Sport	YH9CF	1:1	0.01	819.00	26740	1.0	24.70	23.70	25	0	Front	10	0.001	1.259	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	YH9CF	1:1	0.08	819.00	26740	0.0	25.70	24.70	1	49	Front	10	0.000	1.259	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	YH9CF	1:1	0.05	819.00	26740	1.0	24.70	23.70	25	0	Front	10	0.000	1.259	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	YH9CF	1:1	0.05	819.00	26740	0.0	25.70	24.70	1	49	Front	10	0.000	1.259	0.000	0.000	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	YH9CF	1:1	0.04	819.00	26740	1.0	24.70	23.70	25	0	Front	10	0.000	1.259	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								

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Technical Manager

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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 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	PV9NN	1:1	0.10	819.00	26740	0.0	25.70	24.70	1	49	Back	0	0.256	1.259	0.322	0.081	
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	PV9NN	1:1	0.19	819.00	26740	1.0	24.70	23.70	25	0	Back	0	0.188	1.259	0.237	0.059	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	PV9NN	1:1	0.03	819.00	26740	0.0	25.70	24.70	1	49	Back	0	0.364	1.259	0.458	0.115	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	PV9NN	1:1	-0.07	819.00	26740	1.0	24.70	23.70	25	0	Back	0	0.242	1.259	0.305	0.076	A10
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	PV9NN	1:1	0.20	819.00	26740	0.0	25.70	24.70	1	49	Back	0	0.411	1.259	0.517	0.129	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	PV9NN	1:1	-0.11	819.00	26740	1.0	24.70	23.70	25	0	Back	0	0.294	1.259	0.370	0.093	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

10.11 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	WVM7	1:1	0.01	836.50	20252	0.0	25.70	24.72	1	49	Front	10	0.000	1.253	0.000	0.000	A11
Head	LTE Band 5	10	QPSK	Aluminum	Sport	WVM7	1:1	0.05	836.50	20252	1.0	24.70	23.93	25	0	Front	10	0.000	1.194	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	WVM7	1:1	0.02	836.50	20252	0.0	25.70	24.72	1	49	Front	10	0.000	1.253	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	WVM7	1:1	0.02	836.50	20252	1.0	24.70	23.93	25	0	Front	10	0.000	1.194	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	WVM7	1:1	0.05	836.50	20252	0.0	25.70	24.72	1	49	Front	10	0.000	1.253	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	WVM7	1:1	0.01	836.50	20252	1.0	24.70	23.93	25	0	Front	10	0.000	1.194	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								

10.12 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 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	0RK1	1:1	-0.03	836.50	20252	0.0	25.70	24.72	1	49	Back	0	0.282	1.253	0.353	0.088	
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	0RK1	1:1	0.03	836.50	20252	1.0	24.70	23.93	25	0	Back	0	0.211	1.194	0.252	0.063	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	0RK1	1:1	-0.07	836.50	20252	0.0	25.70	24.72	1	49	Back	0	0.354	1.253	0.444	0.111	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	0RK1	1:1	0.16	836.50	20252	1.0	24.70	23.93	25	0	Back	0	0.245	1.194	0.293	0.073	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	0RK1	1:1	-0.04	836.50	20252	0.0	25.70	24.72	1	49	Back	0	0.359	1.253	0.450	0.113	A12
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	0RK1	1:1	0.05	836.50	20252	1.0	24.70	23.93	25	0	Back	0	0.308	1.194	0.368	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								

10.13 LTE Band 66 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 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Head	LTE Band 66	20	QPSK	Aluminum	Sport	WFF7D	1:1	0.00	1720.00	132072	0.0	25.20	24.34	1	99	Front	10	0.313	1.219	0.360	0.163	
Head	LTE Band 66	20	QPSK	Aluminum	Sport	WFF7D	1:1	0.04	1720.00	132072	1.0	24.20	23.67	50	50	Front	10	0.189	1.130	0.214	0.134	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	WFF7D	1:1	0.02	1720.00	132072	0.0	25.20	24.34	1	99	Front	10	0.655	1.219	0.298	0.499	A13
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	WFF7D	1:1	-0.21	1720.00	132072	1.0	24.20	23.67	50	50	Front	10	0.565	1.130	0.638	0.399	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	WFF7D	1:1	0.06	1720.00	132072	0.0	25.20	24.34	1	99	Front	10	0.349	1.219	0.425	0.266	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	WFF7D	1:1	-0.02	1720.00	132072	1.0	24.20	23.67	50	50	Front	10	0.313	1.130	0.354	0.221	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.14 LTE Band 66 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 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	4PPXH	1:1	-0.09	1720.00	132072	0.0	25.20	24.34	1	99	Back	0	0.110	1.219	0.134	0.034	
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	4PPXH	1:1	-0.07	1720.00	132072	1.0	24.20	23.67	50	50	Back	0	0.059	1.130	0.104	0.026	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.07	1720.00	132072	0.0	25.20	24.34	1	99	Back	0	0.120	1.219	0.146	0.037	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.09	1720.00	132072	1.0	24.20	23.67	50	50	Back	0	0.111	1.130	0.125	0.031	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	4PPXH	1:1	0.05	1720.00	132072	0.0	25.20	24.34	1	99	Back	0	0.136	1.219	0.166	0.042	A14
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	4PPXH	1:1	0.02	1720.00	132072	1.0	24.20	23.67	50	50	Back	0	0.120	1.130	0.127	0.032	
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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10.15 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	4PPXH	1:1	-0.02	1860.00	26140	0.0	25.20	24.20	1	50	Front	10	0.136	1.259	0.171	0.107	
Head	LTE Band 25	20	QPSK	Aluminum	Sport	4PPXH	1:1	-0.01	1860.00	26140	1.0	24.20	23.20	50	50	Front	10	0.120	1.259	0.151	0.094	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.08	1860.00	26140	0.0	25.20	24.20	1	50	Front	10	0.294	1.259	0.370	0.231	A15
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.00	1860.00	26140	1.0	24.20	23.20	50	50	Front	10	0.261	1.259	0.329	0.206	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.04	1860.00	26140	0.0	25.20	24.20	1	50	Front	10	0.206	1.259	0.259	0.162	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.03	1860.00	26140	1.0	24.20	23.20	50	50	Front	10	0.188	1.259	0.237	0.148	
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	4PPXH	1:1	-0.05	1860.00	26140	0.0	25.20	24.20	1	50	Back	0	0.186	1.259	0.234	0.059	
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	4PPXH	1:1	-0.01	1860.00	26140	1.0	24.20	23.20	50	50	Back	0	0.160	1.259	0.201	0.050	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	-0.12	1860.00	26140	0.0	25.20	24.20	1	50	Back	0	0.240	1.259	0.395	0.075	A16
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	4PPXH	1:1	0.02	1860.00	26140	1.0	24.20	23.20	50	50	Back	0	0.201	1.259	0.253	0.063	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	4PPXH	1:1	0.03	1860.00	26140	0.0	25.20	24.20	1	50	Back	0	0.189	1.259	0.238	0.060	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	4PPXH	1:1	-0.15	1860.00	26140	1.0	24.20	23.20	50	50	Back	0	0.158	1.259	0.199	0.050	
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	V2Y14	1:1	0.02	2560.00	21350	0.0	25.20	24.66	1	99	Front	10	0.657	1.132	0.744	0.465	A17
Head	LTE Band 7	20	QPSK	Aluminum	Sport	V2Y14	1:1	-0.06	2560.00	21350	1.0	24.20	23.61	50	50	Front	10	0.560	1.146	0.642	0.401	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	V2Y14	1:1	-0.13	2560.00	21350	0.0	25.20	24.66	1	99	Front	10	0.475	1.132	0.538	0.336	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	V2Y14	1:1	-0.03	2560.00	21350	1.0	24.20	23.61	50	50	Front	10	0.399	1.146	0.448	0.280	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	V2Y14	1:1	0.01	2560.00	21350	0.0	25.20	24.66	1	99	Front	10	0.489	1.132	0.554	0.346	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	V2Y14	1:1	-0.01	2560.00	21350	1.0	24.20	23.61	50	50	Front	10	0.416	1.146	0.470	0.294	
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	V2Y14	1:1	0.05	2560.00	21350	0.0	25.20	24.66	1	99	Back	0	0.133	1.132	0.139	0.035	
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	V2Y14	1:1	-0.08	2560.00	21350	1.0	24.20	23.61	50	50	Back	0	0.103	1.146	0.118	0.030	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	V2Y14	1:1	-0.19	2560.00	21350	0.0	25.20	24.66	1	99	Back	0	0.091	1.132	0.103	0.026	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	V2Y14	1:1	-0.07	2560.00	21350	1.0	24.20	23.61	50	50	Back	0	0.077	1.146	0.088	0.022	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	V2Y14	1:1	-0.09	2560.00	21350	0.0	25.20	24.66	1	99	Back	0	0.131	1.132	0.148	0.037	A18
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	V2Y14	1:1	0.03	2560.00	21350	1.0	24.20	23.61	50	50	Back	0	0.109	1.146	0.125	0.031	
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	N9V7	1:1.58	0.04	2506.00	39750	0.0	25.20	24.03	1	50	Front	10	0.409	1.309	0.535	0.334	A19
Head	LTE Band 41	20	QPSK	Aluminum	Sport	N9V7	1:1.58	0.02	2506.00	39750	1.0	24.20	23.24	50	25	Front	10	0.359	1.247	0.448	0.280	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	N9V7	1:1.58	-0.01	2506.00	39750	0.0	25.20	24.03	1	50	Front	10	0.332	1.309	0.435	0.272	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	N9V7	1:1.58	0.02	2506.00	39750	1.0	24.20	23.24	50	25	Front	10	0.313	1.247	0.390	0.244	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	N9V7	1:1.58	0.01	2506.00	39750	0.0	25.20	24.03	1	50	Front	10	0.285	1.309	0.373	0.233	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	N9V7	1:1.58	-0.05	2506.00	39750	1.0	24.20	23.24	50	25	Front	10	0.261	1.247	0.325	0.203	
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-A3326

RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:
Watch

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REV 24.0

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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	LTE Band 41	20	QPSK	Aluminum	Sport	V2Y14	1:1.58	0.05	2506.00	39750	0.0	25.20	24.03	1	50	Back	0	0.064	1.309	0.084	0.021	A20
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	V2Y14	1:1.58	0.05	2506.00	39750	1.0	24.20	23.24	50	25	Back	0	0.056	1.247	0.070	0.018	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	V2Y14	1:1.58	-0.04	2506.00	39750	0.0	25.20	24.03	1	50	Back	0	0.045	1.309	0.059	0.015	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	V2Y14	1:1.58	0.01	2506.00	39750	1.0	24.20	23.24	50	25	Back	0	0.038	1.247	0.047	0.012	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	V2Y14	1:1.58	-0.03	2506.00	39750	0.0	25.20	24.03	1	50	Back	0	0.047	1.309	0.062	0.016	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	V2Y14	1:1.58	-0.02	2506.00	39750	1.0	24.20	23.24	50	25	Back	0	0.041	1.247	0.051	0.013	

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	NR Band n71	20	QPSK	Aluminum	Sport	2FK9V	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.70	24.35	1	1	Front	10	0.000	1.365	0.000	0.000	A21
Head	NR Band n71	20	QPSK	Aluminum	Sport	2FK9V	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.70	24.62	50	28	Front	10	0.000	1.282	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Sport	2FK9V	1:1	0.01	680.50	136100	CP-OFDM	1.5	24.20	23.11	1	1	Front	10	0.000	1.285	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	2FK9V	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.70	24.35	1	1	Front	10	0.000	1.365	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	2FK9V	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.62	50	28	Front	10	0.000	1.282	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	2FK9V	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.35	1	1	Front	10	0.000	1.365	0.000	0.000	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	2FK9V	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.70	24.62	50	28	Front	10	0.000	1.282	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	NR Band n71	20	QPSK	Aluminum	Sport	WVM7	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.35	1	1	Back	0	0.246	1.365	0.336	0.084	
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	WVM7	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.62	50	28	Back	0	0.293	1.282	0.376	0.094	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	WVM7	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	25.70	24.35	1	1	Back	0	0.361	1.365	0.493	0.128	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	WVM7	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.70	24.62	50	28	Back	0	0.370	1.297	0.503	0.130	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	WVM7	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.35	1	1	Back	0	0.337	1.365	0.460	0.115	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	WVM7	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	25.70	24.56	1	1	Back	0	0.427	1.282	0.547	0.137	A22
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	WVM7	1:1	0.07	680.50	136100	CP-OFDM	1.5	24.20	23.11	1	1	Back	0	0.313	1.285	0.402	0.101	

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

10.23 NR Band n12 Standalone Head SAR

Table 10-23

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																							
Head	NR Band n12	15	QPSK	Aluminum	Sport	WFF7D	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.56	1	77	Front	10	0.000	1.300	0.000	0.000	
Head	NR Band n12	15	QPSK	Aluminum	Sport	WFF7D	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.57	36	22	Front	10	0.000	1.297	0.000	0.000	A23
Head	NR Band n12	15	QPSK	Aluminum	Sport	WFF7D	1:1	0.02	707.50	141500	CP-OFDM	1.5	24.20	23.35	1	1	Front	10	0.000	1.216	0.000	0.000	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	WFF7D	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.56	1	77	Front	10	0.000	1.300	0.000	0.000	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	WFF7D	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.57	36	22	Front	10	0.000	1.297	0.000	0.000	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	WFF7D	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.70	24.56	1	77	Front	10	0.000	1.300	0.000	0.000	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	WFF7D	1:1	0.09	707.50	141500	DFT-s-OFDM	1.5	24.20	23.35	1	1	Front	10	0.000	1.297	0.000	0.000	

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

10.24 NR Band n12 Standalone Extremity SAR

Table 10-24

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	NR Band n12	15	QPSK	Aluminum	Sport	GLFPX	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.56	1	77	Back	0	0.239	1.300	0.311	0.078	
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	GLFPX	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.57	36	22	Back	0	0.254	1.297	0.329	0.082	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	GLFPX	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.56	1	77	Back	0	0.307	1.300	0.399	0.100	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	GLFPX	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.70	24.56	36								

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	HB1CF	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.41	1	26	Front	10	0.000	1.346	0.000	0.000	A25
Head	NR Band n14	10	GPSK	Aluminum	Sport	HB1CF	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.47	25	14	Front	10	0.000	1.327	0.000	0.000	
Head	NR Band n14	10	GPSK	Aluminum	Metal Loop	HB1CF	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	23.32	1	1	Front	10	0.000	1.282	0.000	0.000	
Head	NR Band n14	10	GPSK	Aluminum	Metal Loop	HB1CF	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.41	1	26	Front	10	0.000	1.327	0.000	0.000	
Head	NR Band n14	10	GPSK	Aluminum	Metal Links	HB1CF	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.41	1	26	Front	10	0.000	1.346	0.000	0.000	
Head	NR Band n14	10	GPSK	Aluminum	Metal Links	HB1CF	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.47	25	14	Front	10	0.000	1.327	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					

10.26 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	GLPFX	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.41	1	26	Back	0	0.203	1.346	0.273	0.068	
Extremity	NR Band n14	10	GPSK	Aluminum	Sport	GLPFX	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.47	25	14	Back	0	0.284	1.327	0.377	0.094	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Loop	GLPFX	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.41	1	26	Back	0	0.317	1.346	0.427	0.107	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Loop	GLPFX	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.47	25	14	Back	0	0.338	1.327	0.449	0.112	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Links	GLPFX	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.41	1	26	Back	0	0.418	1.346	0.563	0.141	A26
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Links	GLPFX	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.47	25	14	Back	0	0.424	1.327	0.563	0.141	
Extremity	NR Band n14	10	GPSK	Aluminum	Metal Links	GLPFX	1:1	0.01	793.00	158600	CP-OFDM	1.5	24.20	23.12	1	1	Back	0	0.334	1.282	0.428	0.107	
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 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio 1g SAR	Plot #
Head	NR Band n26	20	GPSK	Aluminum	Sport	124N1	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.07	1	1	Front	10	0.000	1.455	0.000	0.000	A27
Head	NR Band n26	20	GPSK	Aluminum	Sport	124N1	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.09	50	28	Front	10	0.000	1.449	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Loop	124N1	1:1	0.01	831.50	166300	CP-OFDM	1.5	24.20	23.22	1	1	Front	10	0.000	1.253	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Loop	124N1	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.70	24.07	1	1	Front	10	0.000	1.449	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Links	124N1	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.07	1	1	Front	10	0.000	1.455	0.000	0.000	
Head	NR Band n26	20	GPSK	Aluminum	Metal Links	124N1	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.09	50	28	Front	10	0.000	1.449	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					

10.28 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	9303F	1:4	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.07	1	1	Back	0	0.237	1.455	0.245	0.095	
Extremity	NR Band n26	20	GPSK	Aluminum	Sport	9303F	1:4	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.09	50	28	Back	0	0.239	1.449	0.332	0.093	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Loop	9303F	1:4	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.07	1	1	Back	0	0.303	1.455	0.441	0.110	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Loop	9303F	1:4	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.09	50	28	Back	0	0.312	1.449	0.452	0.113	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Links	9303F	1:4	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.07	1	1	Back	0	0.368	1.455	0.335	0.134	A28
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Links	9303F	1:4	0.11	831.50	166300	DFT-s-OFDM	0.0	25.70	24.09	50	28	Back	0	0.325	1.449	0.471	0.118	
Extremity	NR Band n26	20	GPSK	Aluminum	Metal Links	9303F	1:4	0.06	831.50	166300	CP-OFDM	1.5	24.20	23.22	1	1	Back	0	0.375	1.253	0.345	0.086	
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 1g SAR [W/kg]	Exposure Ratio 1g SAR	Plot #
Head	NR Band n5	20	GPSK	Aluminum	Sport	HB1CF	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	23.97	1	53	Front	10	0.000	1.489	0.000	0.000	A29
Head	NR Band n5	20	GPSK	Aluminum	Sport	HB1CF	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Front	10	0.000	1.476	0.000	0.000	
Head	NR Band n5	20	GPSK	Aluminum	Sport	HB1CF	1:1	0.01	836.50	167300	CP-OFDM	1.5	24.20	22.89	1	1	Front	10	0.000	1.352	0.000	0.000	
Head	NR Band n5	20	GPSK	Aluminum	Metal Loop	HB1CF	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	23.97	1	53	Front	10	0.000	1.489	0.000	0.000	
Head	NR Band n5	20	GPSK	Aluminum	Metal Loop	HB1CF	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Front	10	0.000	1.475	0.000	0.000	
Head	NR Band n5	20	GPSK	Aluminum	Metal Links	HB1CF	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	23.97	1	53	Front	10	0.000	1.489	0.000	0.000	
Head																							

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 SAR	Plot #
Extremity	NR Band n5	20	GPSK	Aluminum	Sport	3W6NM	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	23.97	1	53	Back	0	0.204	1.489	0.304	0.076	
Extremity	NR Band n5	20	GPSK	Aluminum	Sport	3W6NM	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Back	0	0.253	1.476	0.373	0.093	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Loop	3W6NM	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	23.97	1	53	Back	0	0.293	1.489	0.436	0.105	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Loop	3W6NM	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Back	0	0.268	1.465	0.368	0.089	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Links	3W6NM	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	23.97	1	53	Back	0	0.392	1.489	0.584	0.146	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Links	3W6NM	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.01	50	28	Back	0	0.361	1.476	0.533	0.133	
Extremity	NR Band n5	20	GPSK	Aluminum	Metal Links	3W6NM	1:1	0.01	836.50	167300	CP-OFDM	1.5	24.20	22.89	1	1	Back	0	0.277	1.352	0.375	0.094	
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	GPSK	Aluminum	Sport	61KXP	1:1	0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Front	10	0.207	1.282	0.265	0.166	
Head	NR Band n66	20	GPSK	Aluminum	Sport	61KXP	1:1	-0.01	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.198	1.285	0.254	0.159	
Head	NR Band n66	20	GPSK	Aluminum	Metal Loop	61KXP	1:1	0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Front	10	0.369	1.282	0.729	0.456	
Head	NR Band n66	20	GPSK	Aluminum	Metal Loop	61KXP	1:1	0.06	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.491	1.288	0.631	0.394	
Head	NR Band n66	20	GPSK	Aluminum	Metal Loop	61KXP	1:1	0.04	1720.00	344000	CP-OFDM	1.5	23.70	22.57	1	1	Front	10	0.385	1.297	0.499	0.312	
Head	NR Band n66	20	GPSK	Aluminum	Metal Links	61KXP	1:1	-0.11	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Front	10	0.394	1.288	0.505	0.316	
Head	NR Band n66	20	GPSK	Aluminum	Metal Links	61KXP	1:1	0.00	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.368	1.285	0.473	0.296	
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	GPSK	Aluminum	Sport	61KXP	1:1	0.10	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Back	0	0.117	1.282	0.150	0.038	
Extremity	NR Band n66	20	GPSK	Aluminum	Sport	61KXP	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Back	0	0.111	1.285	0.143	0.036	
Extremity	NR Band n66	20	GPSK	Aluminum	Metal Loop	61KXP	1:1	0.10	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Back	0	0.108	1.282	0.138	0.035	
Extremity	NR Band n66	20	GPSK	Aluminum	Metal Loop	61KXP	1:1	0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Back	0	0.094	1.282	0.121	0.030	
Extremity	NR Band n66	20	GPSK	Aluminum	Metal Links	61KXP	1:1	0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.12	1	104	Back	0	0.114	1.282	0.168	0.042	
Extremity	NR Band n66	20	GPSK	Aluminum	Metal Links	61KXP	1:1	0.01	1720.00	344000	CP-OFDM	1.5	23.70	22.57	1	1	Back	0	0.127	1.285	0.163	0.041	
Extremity	NR Band n66	20	GPSK	Aluminum	Metal Links	61KXP	1:1	-0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.11	50	28	Front	10	0.084	1.297	0.109	0.027	
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	GPSK	Aluminum	Sport	3W6NM	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.69	1	1	Front	10	0.454	1.445	0.223	0.139	
Head	NR Band n25	20	GPSK	Aluminum	Sport	3W6NM	1:1	0.07	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.60	50	28	Front	10	0.471	1.445	0.247	0.154	
Head	NR Band n25	20	GPSK	Aluminum	Metal Loop	3W6NM	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.59	1	1	Front	10	0.388	1.449	0.417	0.261	
Head	NR Band n25	20	GPSK	Aluminum	Metal Loop	3W6NM	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.60	50	28	Front	10	0.310	1.445	0.448	0.280	
Head	NR Band n25	20	GPSK	Aluminum	Metal Links	3W6NM	1:1	0.04	1860.00	372000	CP-OFDM	1.5	23.70	22.09	1	1	Front	10	0.232	1.446	0.336	0.210	
Head	NR Band n25	20	GPSK	Aluminum	Metal Links	3W6NM	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.59	1	1	Front	10	0.206	1.449	0.298	0.186	
Head	NR Band n25	20	GPSK	Aluminum	Metal Links	3W6NM	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.60	50	28	Front	10	0.218	1.445	0.315	0.197	
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	GPSK	Aluminum	Sport	4PPXH	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.69	1	1	Back	0	0.219	1.445	0.244	0.079	
Extremity	NR Band n25	20	GPSK	Aluminum	Sport	4PPXH	1:1	0.05	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.60	50	28	Back	0	0.215	1.445	0.311	0.078	
Extremity	NR Band n25	20	GPSK	Aluminum	Metal Loop	4PPXH	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.59	1	1	Back	0	0.238	1.449	0.345	0.086	
Extremity	NR Band n25	20	GPSK	Aluminum	Metal Loop	4PPXH	1:1	-0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.60	50	28	Back	0	0.171	1.445	0.247	0.062	
Extremity	NR Band n25	20	GPSK	Aluminum	Metal Links	4PPXH	1:1	-0.09	1860.00	372000	CP-OFDM	1.5	23.70</td										

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	GPSK	Aluminum	Sport	V2Y74	1:1	0.12	2510.00	502000	DFT-s-OFDM	0.0	25.20	23.88	1	1	Front	10	0.724	1.355	0.981	0.613	
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.85	1	1	Front	10	0.759	1.365	1.036	0.648	
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	0.10	2520.00	512000	DFT-s-OFDM	0.0	25.20	24.48	1	1	Front	10	0.827	1.285	1.045	0.654	A35
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y75	1:1	0.11	2510.00	507000	DFT-s-OFDM	0.0	25.20	24.47	50	28	Front	10	0.769	1.350	1.033	0.637	
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	0.01	2535.00	509300	DFT-s-OFDM	0.0	25.20	24.01	50	28	Front	10	0.766	1.315	1.037	0.629	
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	0.10	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.49	50	28	Front	10	0.731	1.262	0.923	0.577	
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	0.03	2560.00	512000	DFT-s-OFDM	1.0	24.20	22.99	100	0	Front	10	0.641	1.321	0.847	0.529	
Head	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	0.08	2560.00	512000	CP-OFDM	1.5	23.70	22.54	1	1	Front	10	0.558	1.300	0.729	0.456	
Head	NR Band n7	20	GPSK	Aluminum	Metal Loop	V2Y74	1:1	0.04	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.18	1	1	Front	10	0.510	1.265	0.645	0.403	
Head	NR Band n7	20	GPSK	Aluminum	Metal Loop	V2Y74	1:1	0.02	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.49	50	28	Front	10	0.489	1.262	0.617	0.386	
Head	NR Band n7	20	GPSK	Aluminum	Metal Links	V2Y74	1:1	0.03	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.48	1	1	Front	10	0.631	1.265	0.798	0.499	
Head	NR Band n7	20	GPSK	Aluminum	Metal Links	V2Y74	1:1	0.06	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.49	50	28	Front	10	0.510	1.262	0.681	0.426	
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	GPSK	Aluminum	Sport	V2Y74	1:1	-0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.48	1	1	Back	0	0.994	1.265	0.119	0.030	
Extremity	NR Band n7	20	GPSK	Aluminum	Sport	V2Y74	1:1	-0.07	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.49	50	28	Back	0	0.099	1.262	0.125	0.031	
Extremity	NR Band n7	20	GPSK	Aluminum	Metal Loop	V2Y74	1:1	0.02	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.48	1	1	Back	0	0.095	1.265	0.120	0.030	
Extremity	NR Band n7	20	GPSK	Aluminum	Metal Links	V2Y74	1:1	0.04	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.49	50	28	Back	0	0.100	1.265	0.125	0.031	
Extremity	NR Band n7	20	GPSK	Aluminum	Metal Links	V2Y74	1:1	0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.48	1	1	Back	0	0.138	1.265	0.175	0.044	A36
Extremity	NR Band n7	20	GPSK	Aluminum	Metal Links	V2Y74	1:1	0.02	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.49	50	28	Back	0	0.126	1.262	0.159	0.040	
Extremity	NR Band n7	20	GPSK	Aluminum	Metal Links	V2Y74	1:1	0.01	2560.00	512000	CP-OFDM	1.5	23.70	22.54	1	1	Back	0	0.098	1.306	0.128	0.032	
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	GPSK	Aluminum	Sport	PH055	1:1	0.09	2505.02	501204	DFT-s-OFDM	0.0	25.20	24.49	1	26	Front	10	0.644	1.262	0.913	0.508	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.09	2509.49	509308	DFT-s-OFDM	0.0	25.20	24.45	1	26	Front	10	0.610	1.216	0.742	0.464	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.15	2520.99	518598	DFT-s-OFDM	0.0	25.20	24.77	1	26	Front	10	0.606	1.239	0.753	0.471	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.04	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.21	1	1	Front	10	0.621	1.256	0.780	0.488	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.10	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.20	1	26	Front	10	0.830	1.259	1.045	0.653	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.11	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.26	25	13	Front	10	0.705	1.242	0.876	0.548	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.04	2540.49	509698	DFT-s-OFDM	0.0	25.20	24.34	25	13	Front	10	0.611	1.219	0.745	0.466	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.09	2520.99	518598	DFT-s-OFDM	0.0	25.20	24.24	25	13	Front	10	0.578	1.247	0.771	0.451	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.02	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.16	25	13	Front	10	0.676	1.271	0.859	0.527	
Head	NR Band n41	20	GPSK	Aluminum	Sport	PH055	1:1	0.06	2520.99	518598	DFT-s-OFDM	0.0	25.20	24.26	25	13	Front	10	0.593	1.243	0.843	0.510	A37
Head	NR Band n41	20	GPSK	Aluminum	Metal Loop	PH055	1:1	0.08	2520.99	518598	DFT-s-OFDM	0.0	25.20	24.27	1	26	Front	10	0.682	1.262	0.963	0.603	
Head	NR Band n41	20	GPSK	Aluminum	Metal Loop	PH055	1:1	0.02	2506.02	501204	DFT-s-OFDM	1.0	24.20	23.46	50	0	Front	10	0.573	1.186	0.620	0.388	
Head	NR Band n41	20	GPSK	Aluminum	Metal Loop	PH055	1:1	0.07	2520.99	518598	CP-OFDM	1.5	23.70	23.52	1	1	Front	10	0.498	1.042	0.519	0.324	
Head	NR Band n41	20	GPSK	Aluminum	Metal Loop	PH055	1:1	-0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.49	1	26	Front	10	0.575	1.262	0.726	0.454	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.01	2540.49	509698	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.573	1.216	0.697	0.436	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.05	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.21	1	1	Front	10	0.623	1.256	0.782	0.488	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	-0.08	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.20	1	26	Front	10	0.702	1.259	0.884	0.553	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.01	2520.99	518598	DFT-s-OFDM	0.0	25.20	24.28	25	13	Front	10	0.651	1.245	0.809	0.506	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.09	2540.49	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Front	10	0.559	1.249	0.748	0.488	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	-0.01	2501.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Front	10	0.545	1.247	0.680	0.425	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.03	2536.49	527298	DFT-s-OFDM	0.0	25.20	24.16	25	13	Front	10	0.680	1.271	0.954	0.540	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.01	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.26	25	13	Front	10	0.660	1.242	0.820	0.513	
Head	NR Band n41	20	GPSK	Aluminum	Metal Links	PH055	1:1	0.10	2506.02	501204	DFT-s-OFDM	1.0	24.20	23.46	50	0	Front	10	0.499	1.186	0.592	0.370	

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	GPSK	Aluminum	Sport	3W6NM	1:1	-0.19	2549.49	50998	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.122	1.216	0.148	0.037	A38
Extremity	NR Band n41	20	GPSK	Aluminum	Sport	3W6NM	1:1	0.10	2549.49	50998	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.110	1.219	0.134	0.034	
Extremity	NR Band n41	20	GPSK	Aluminum	Sport	3W6NM	1:1	0.17	2549.49	518598	CP-OFDM	1.5	23.70	23.52	1	1	Back	0	0.079	1.219	0.130	0.024	
Extremity	NR Band n41	20	GPSK	Aluminum	Metal Loop	3W6NM	1:1	0.12	2549.49	50998	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.100	1.216	0.122	0.021	
Extremity	NR Band n41	20	GPSK	Aluminum	Metal Loop	3W6NM	1:1	0.00	2549.49	50998	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.093	1.219	0.112	0.028	
Extremity	NR Band n41	20	GPSK	Aluminum	Metal Link	3W6NM	1:1	0.18	2549.49	50998	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.120	1.216	0.146	0.037	
Extremity	NR Band n41	20	OPSK	Aluminum	Metal Link	3W6NM	1:1	0.06	2549.49	50998	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.090	1.219	0.110	0.028	
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	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Sport	PHQ55	99.76	-0.03	2412	1	1.0	19.00	18.09	Front	10	0.141	1.233	1.002	0.174	0.109	A39
Head	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	PHQ55	99.76	0.10	2412	1	1.0	19.00	18.09	Front	10	0.116	1.233	1.002	0.143	0.089	
Head	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Links	PHQ55	99.76	-0.01	2412	1	1.0	19.00	18.09	Front	10	0.102	1.233	1.002	0.126	0.079	
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	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Sport	PHQ55	99.76	0.01	2412	1	1.0	19.00	18.09	Back	0	0.031	1.233	1.002	0.038	0.010	
Extremity	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	PHQ55	99.76	-0.01	2412	1	1.0	19.00	18.09	Back	0	0.018	1.233	1.002	0.022	0.006	
Extremity	2.4 GHz WiFi/IEEE 802.11b	22	DSSS	Aluminum	Metal Links	PHQ55	99.76	0.00	2412	1	1.0	19.00	18.09	Back	0	0.036	1.233	1.002	0.044	0.011	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	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	3W6NM	100%	-0.04	2402	0	1	17.50	16.05	Front	10	0.117	1.396	1.000	0.163	0.102	A41	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	3W6NM	100%	0.04	2402	0	1	17.50	16.05	Front	10	0.076	1.396	1.000	0.106	0.066		
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	3W6NM	100%	-0.03	2402	0	1	17.50	16.05	Front	10	0.070	1.396	1.000	0.098	0.061		
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	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	3W6NM	100%	-0.03	2402	0	1	17.50	16.05	Back	0	0.014	1.396	1.000	0.020	0.005		
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	3W6NM	100%	0.02	2402	0	1	17.50	16.05	Back	0	0.008	1.396	1.000	0.011	0.003		
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	3W6NM	100%	-0.03	2402	0	1	17.50	16.05	Back	0	0.020	1.396	1.000	0.028	0.007	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:
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10.43 NFC SISO Standalone Extremity SAR

Table 10-43

Exposure	Band / Mode	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	Aluminum	Sport	WFF7D	0.04	13.60	Back	0	0.000	0.000	A43
Extremity	NFC	Aluminum	Sport	WFF7D	0.08	13.60	Back	0	0.000	0.000	
Extremity	NFC	Aluminum	Metal Loop	WFF7D	0.01	13.60	Back	0	0.000	0.000	
Extremity	NFC	Aluminum	Metal Loop	WFF7D	0.02	13.60	Back	0	0.000	0.000	
Extremity	NFC	Aluminum	Metal Links	WFF7D	0.01	13.60	Back	0	0.000	0.000	
Extremity	NFC	Aluminum	Metal Links	WFF7D	0.03	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				

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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. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were required since measured SAR results for a frequency band were greater than or equal 0.8 W/kg and 2.0 W/kg for 10g SAR.
7. 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.
8. 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.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

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 W/kg for 1g evaluations and > 1.5 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.

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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 $\le 0.8 \text{ W/kg}$, 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 $\le 1.20 \text{ W/kg}$ 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 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

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

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (1g) (W/kg)	1st Repeated SAR (1g) (W/kg)	Ratio	2nd Repeated SAR (1g) (W/kg)	Ratio	3rd Repeated SAR (1g) (W/kg)	Ratio
	MHz	Ch.											
2600	2679.99	535998	NR Band n41, DFT-s-OFDM, 20 MHz Bandwidth	QPSK, 25 RB, 13 RB Offset	Front	10 mm	0.953	0.854	1.12	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													
Body 1.6 W/kg (mW/g) averaged over 1 gram													

11.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis 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	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	12/5/2024	Annual	12/5/2025	US46240505
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	155166	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	155166	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Rhode & Schwarz	NRX	Power Meter	1/30/2025	Annual	1/30/2026	102583
Rhode & Schwarz	NRX	Power Meter	2/24/2025	Annual	2/24/2026	102582
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	172626
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
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-4GHS	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	2/7/2025	Annual	2/7/2026	MY3421544
Keysight Technologies	N9020A	MXA Signal Analyzer	6/4/2025	Annual	6/4/2026	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-5+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
GW Instek	GPS-3030DD	D.C. Power Supply	N/A	N/A	N/A	GEX823589
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	CLA-13	Confined Loop Antenna	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	9/6/2023	Biennial	9/6/2025	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2023	Biennial	8/8/2025	5d180
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1068
SPEAG	D2600V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAG	D750V3	750 MHz SAR Dipole	5/9/2025	Annual	5/9/2026	1057
SPEAG	D835V2	835 MHz SAR Dipole	11/18/2022	Triennial	11/18/2025	4d108
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	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/13/2025	Annual	5/13/2026	1683
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1237
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7638
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	3837
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7532
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7427
SPEAG	EX3DV4	SAR Probe	5/14/2025	Annual	5/14/2026	7682
SPEAG	EX3DV4	SAR Probe	10/15/2024	Annual	10/15/2025	3746

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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