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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
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4 ab-NB	Data	5728.75 - 5846.25 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with MediaTek TAS algorithm feature for WWAN modes technologies. These features perform time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to the technical description document for detailed description of MediaTek TAS algorithm feature.

Note that WLAN, Bluetooth, 802.15.4 ab-NB, UWB, and NFC operations are not enabled with TAS.

The TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band. SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

TAS allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Final Plimit settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Exposure Condition Index ECI for MediaTek). Note that the device uncertainty for sub-6GHz WWAN is shown below:

Table 1-1

SAR_design_target Calculations						
Mode/Band	1g SAR [W/kg]			10g SAR [W/kg]		
	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit
LTE FDD Band 7	1.70	0.81	1.6 W/kg	1.20	2.27	4 W/kg
NR FDD Band n7	1.70	0.81		1.20	2.27	
All other modes/bands	1.20	0.91		1.20	2.27	

The maximum time-averaged output power (dBm) for any WWAN sub-6 technology, band, and ECI is the minimum of ("Plimit " and "Maximum tune up output power Pmax") + corresponding device uncertainty on the table above. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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Exposure Scenario:	Maximum Tune-up Output Power*	Head	Extremity
Averaging Volume:		1g	10g
Spacing:		10 mm	0 mm
ECI:		1	0
Technology/Band	Pmax		
LTE Band 71	24.50	51.10	35.00
LTE Band 12	24.50	48.80	33.50
LTE Band 17	24.50	N/A	N/A
LTE Band 13	24.50	45.70	35.40
LTE Band 14	24.50	47.50	35.40
LTE Band 26	24.50	50.50	34.90
LTE Band 5	24.50	51.10	35.50
LTE Band 4	24.00	N/A	N/A
LTE Band 66	24.00	31.40	38.60
LTE Band 2	24.00	N/A	N/A
LTE Band 25	24.00	29.80	36.50
LTE Band 7	24.00	23.00	34.80
LTE Band 41	22.00	23.30	33.90
NR Band n71	24.50	45.30	37.50
NR Band n12	24.50	49.50	34.50
NR Band n14	24.50	47.20	32.40
NR Band n26	24.50	51.20	34.10
NR Band n5	24.50	49.30	34.90
NR Band n66	24.00	30.80	38.00
NR Band n2	24.00	N/A	N/A
NR Band n25	24.00	29.00	34.40
NR Band n7	24.00	22.20	33.20
NR Band n41	24.00	24.20	33.60

This device supports a different Exposure Condition Index (ECI) to configure different time-averaged power levels based on certain exposure conditions. When the speaker is active, ECI = 1 represents the case where the device will be near the mouth of the user (in-front-of the face). ECI = 0 represents the case when the speaker is inactive, and the device operates in close proximity to the user's body.

Plimit is calculated by linearly scaling with the measured SAR at the Part0/Part 1 to correspond to the SAR_design_target. When Plimit < Pmax, Part 1 SAR was used as Plimit in the TAS. When Plimit > Pmax and Part0/Part 1 = Pmax, calculated Plimit was used in the TAS. All reported SAR obtained from the Part0/Part 1 SAR tests was less than SAR_Design_target + corresponding device uncertainty. The SAR measured in Part 0 at a fixed power level was also used for Part 1 report. The final Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in the table above.

All Plimit and maximum tune up output power Pmax levels entered in the above table correspond to average power levels after accounting for duty cycle in the case of LTE TDD modulation schemes.

When Pmax < Plimit, the DUT will operate at a power level up to Pmax

The SAR design limit is determined by accounting for device uncertainty, and the Psub6 limit is defined as the time-averaged power corresponding to the SAR design limit.

Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1.20 dB device design uncertainty.

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1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for LTE Band 7 and NR Band n7 during next to mouth scenarios. When the speaker is on, the output power of LTE Band 7 and NR Band n7 is reduced.

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. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

This device additionally uses an independent duty cycle reduction mechanism for WLAN operations while licensed band operations are active. When the cellular antenna is transmitting, the duty cycle of WLAN operation reduces to a maximum of 30%. A detailed description of the mechanism is included in the operational description. The reduction mechanism was confirmed during the SAR evaluation.

This device supports a different Exposure Condition Index (ECI) to configure different time-averaged power levels based on certain exposure conditions. When the speaker is active, ECI =1 represents the case where the device will be near the mouth of the user (in-front-of the face). ECI=0 represents the case when the speaker is inactive, and the device operates in close proximity to the user's body.

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1.4 Nominal and Maximum Output Power Specifications

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

1.4.1 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 FDD Band 7 Reduced	Max allowed power	24.70
	Nominal	23.00
LTE TDD Band 41	Max allowed power	25.20
	Nominal	24.00

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1.4.2

Maximum Output Power – NR Mode

Mode / Band		Modulated Average Output Power (in dBm)
NR FDD Band 71	Max allowed power	25.70
	Nominal	24.50
NR FDD Band 12	Max allowed power	25.70
	Nominal	24.50
NR FDD Band 14	Max allowed power	25.70
	Nominal	24.50
NR FDD Band 26	Max allowed power	25.70
	Nominal	24.50
NR FDD Band 5	Max allowed power	25.70
	Nominal	24.50
NR FDD Band 66	Max allowed power	25.20
	Nominal	24.00
NR FDD Band 2	Max allowed power	25.20
	Nominal	24.00
NR FDD Band 25	Max allowed power	25.20
	Nominal	24.00
NR FDD Band 7	Max allowed power	25.20
	Nominal	24.00
NR FDD Band 7 Reduced	Max allowed power	23.90
	Nominal	22.20
NR TDD Band 41	Max allowed power	25.20
	Nominal	24.00

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1.4.3

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	18.00	17.00	18.00	17.00
		11	19.00	18.00	16.00	15.00	16.00	15.00
		12	18.00	17.00	14.50	13.50	14.50	13.50
		13	15.00	14.00	4.00	3.00	4.00	3.00

Mode/ Band		Channel	IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)	
			Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	36	17.00	16.00	17.00	16.00
		40	17.00	16.00	17.00	16.00
		44	17.00	16.00	17.00	16.00
		48	17.00	16.00	17.00	16.00
		52	17.00	16.00	17.00	16.00
		56	17.00	16.00	17.00	16.00
		60	17.00	16.00	17.00	16.00
		64	17.00	16.00	17.00	16.00
		100	17.00	16.00	17.00	16.00
		104	17.00	16.00	17.00	16.00
		108	17.00	16.00	17.00	16.00
		112	17.00	16.00	17.00	16.00
		116	17.00	16.00	17.00	16.00
		120	17.00	16.00	17.00	16.00
		124	17.00	16.00	17.00	16.00
		128	17.00	16.00	17.00	16.00
		132	17.00	16.00	17.00	16.00
		136	17.00	16.00	17.00	16.00
		140	13.50	12.50	13.50	12.50
		144	17.00	16.00	17.00	16.00
		149	17.00	16.00	17.00	16.00
		153	17.00	16.00	17.00	16.00
		157	17.00	16.00	17.00	16.00
		161	17.00	16.00	17.00	16.00
		165	17.00	16.00	17.00	16.00

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1.4.4 Maximum Output Power – Bluetooth Mode

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	17.50
	Nominal	16.50
Bluetooth EDR	Maximum	13.00
	Nominal	12.00
Bluetooth HDR	Maximum	13.00
	Nominal	12.00

1.4.1 Reduced Output Power – Bluetooth Mode

The reduced table below is applicable in the following scenarios:

- Simultaneous conditions with Cellular Bands

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	13.00
	Nominal	12.00
Bluetooth EDR	Maximum	13.00
	Nominal	12.00
Bluetooth HDR	Maximum	13.00
	Nominal	12.00

1.4.2 Maximum Output Power – 802.15.4 ab-NB

Mode / Band		Modulated Average - Single Tx Chain (dBm)
802.15.4 ab-NB	Maximum	16.00
	Nominal	14.00

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1.5 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.

1.6 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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1.7 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 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	Cellular + 2.4 GHz WI-FI + NFC*	Yes*	Yes
2	Cellular+ 5 GHz WI-FI + NFC*	Yes*	Yes
3	Cellular + 2.4 GHz Bluetooth + NFC*	Yes*	Yes
4	Cellular+ 802.15.4 ab-NB + NFC*	Yes*	Yes
5	Cellular + UWB + NFC*	Yes*	Yes
6	Cellular + 2.4 GHz WI-FI + 802.15.4 ab-NB + NFC*	Yes*	Yes
7	Cellular + 2.4 GHz WI-FI + UWB + NFC*	Yes*	Yes
8	Cellular + 2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
9	Cellular + 2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
10	Cellular + 2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes
11	2.4 GHz WI-FI + 802.15.4 ab-NB + NFC*	Yes*	Yes
12	2.4 GHz WI-FI + UWB + NFC*	Yes*	Yes
13	2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
14	2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
15	2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth cannot transmit simultaneously.
2. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
3. 802.15.4 ab-NB, 5 GHz WLAN and UWB cannot transmit simultaneously.
4. Licensed modes cannot transmit simultaneously.
5. This device supports VOLTE.
6. This device supports VOWIFI.
7. *NFC was evaluated for extremity based on expected usage conditions.

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1.8 Miscellaneous SAR Test Considerations

In some cases, SAR evaluations at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

(A) WIFI/BT/UWB

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.

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Per October 2022 TCB Workshop, the 1 mW test exemption is allowed for 6-8.5 GHz UWB in multi-transmitter end products. No further evaluation for UWB is required.

(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 7.2.4.

1.9 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
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC 62479:2010

1.10 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.

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1.11 Device Housing Types and Wrist Band Types

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

1.12 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2503270032-23.BCG
RF Exposure Part 2 Test Report	1C2503270032-25.BCG
RF Exposure Compliance Summary Report	1C2503270032-26.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 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)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)		695.5 (133447)
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)		693 (133422)
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)		690.5 (133397)
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)		688 (133372)
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)		713.5 (23825)
LTE Band 17: 10 MHz	709 (23780)		710 (23790)		711 (23800)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	N/A		782 (23230)		N/A
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)
LTE Band 14: 10 MHz	N/A		793 (23330)		N/A
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 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 n66 (AWS) (1712.5 - 1777.5 MHz)				
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)				
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)				
	NR Band 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 n66 (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 n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)
NR Band n66 (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: $\pi/2$ 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 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

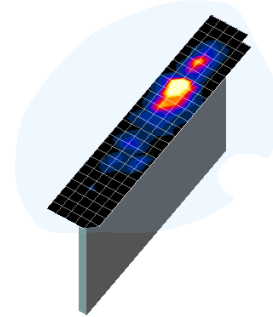


Figure 4-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. Additionally, a manufacturer provided low-loss foam was used to position the device for head SAR evaluations.

5.2 Positioning for Head

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

5.3 Extremity Exposure Configurations

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

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

6.3 RF Exposure Limits for Frequencies Below 6 GHz

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

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

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

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6.4 RF Exposure Limits for Frequencies Above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m^2 or mW/cm^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

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

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

Note: 1.0 mW/cm^2 is 10 W/m^2

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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 ½ 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 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted

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by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.3 U-NII-2C and U-NII-3

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

7.3.4 2.4 GHz SAR Test Requirements

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

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

2.4 GHz 802.11 g/n 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.

7.3.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 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.

7.3.6 Initial Test Configuration Procedure

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

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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 7.3.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.7 Subsequent Test Configuration Procedures

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

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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 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.

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8.1.1

LTE Band 71

Table 8-1
LTE Band 71 Conducted Power – 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.47	0	0
	1	50	24.53		0
	1	99	24.40		0
	50	0	24.04	0-1	1
	50	25	23.99		1
	50	50	24.00		1
	100	0	24.02		1
	15	0	24.51	0-1	0
	15	42	24.52		0
	15	85	24.44		0
	27	0	23.98	0-2	1
	27	37	23.99		1
	27	73	23.89		1
16QAM	1	0	23.74	0-2	1
	1	50	23.68		1
	1	99	23.67		1
	15	0	23.92	0-3	1
	15	42	23.97		1
	15	85	23.87		1
	27	0	23.04	0-5	2
	27	37	23.02		2
	27	73	22.92		2

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8.1.2

LTE Band 12

Table 8-2
LTE Band 12 Conducted Power – 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.49	0	0
	1	25	24.44		0
	1	49	24.48		0
	25	0	24.00	0-1	1
	25	12	23.98		1
	25	25	23.95		1
	50	0	23.98		1
	15	0	23.97	0-1	1
	15	17	23.94		1
	15	35	23.94		1
	27	0	23.95	0-2	1
	27	12	23.92		1
	27	23	23.91		1
16QAM	1	0	23.50	0-2	1
	1	25	23.47		1
	1	49	23.51		1
	25	0	22.21	0-3	2
	25	12	22.18		2
	25	25	22.19		2
	15	0	22.16	0-5	2
	15	17	22.18		2
	15	35	22.21		2
	27	0	22.14		2
	27	12	22.16		2
	27	23	22.13		2

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8.1.3

LTE Band 13

Table 8-3
LTE Band 13 Conducted Power – 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	24.58	0	0
	1	25	24.47		0
	1	49	24.44		0
	25	0	23.90	0-1	1
	25	12	23.92		1
	25	25	23.89		1
	50	0	23.88		1
	15	0	23.91	0-1	1
	15	17	23.92		1
	15	35	23.90		1
	27	0	23.88	0-2	1
	27	12	23.88		1
	27	23	23.87		1
16QAM	1	0	24.00	0-2	1
	1	25	23.80		1
	1	49	23.82		1
	25	0	22.23	0-3	2
	25	12	22.31		2
	25	25	22.30		2
	15	0	22.20	0-5	2
	15	17	22.21		2
	15	35	22.22		2
	27	0	22.17		2
	27	12	22.20		2
	27	23	22.19		2

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8.1.4

LTE Band 14

Table 8-4
LTE Band 14 Conducted Power – 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.45	0	0
	1	25	24.41		0
	1	49	24.44		0
	25	0	23.97	0-1	1
	25	12	23.95		1
	25	25	23.94		1
	50	0	23.93		1
	15	0	23.94	0-1	1
	15	17	23.90		1
	15	35	23.93		1
	27	0	23.92	0-2	1
	27	12	23.92		1
	27	23	23.89		1
16QAM	1	0	23.96	0-2	1
	1	25	23.83		1
	1	49	23.90		1
	25	0	22.27	0-3	2
	25	12	22.21		2
	25	25	22.25		2
	15	0	22.31	0-5	2
	15	17	22.32		2
	15	35	22.30		2
	27	0	22.31		2
	27	12	22.25		2
	27	23	22.27		2

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8.1.5

LTE Band 26

Table 8-5
LTE Band 26 Conducted Power – 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.41	24.45	24.33	0	0
	1	25	24.36	24.49	24.34		0
	1	49	24.45	24.46	24.28		0
	25	0	23.95	23.96	23.92	0-1	1
	25	12	23.92	23.91	23.88		1
	25	25	23.95	23.95	23.89		1
	50	0	23.93	23.93	23.90	0-1	1
	15	0	23.94	23.93	23.88		1
	15	17	23.90	23.92	23.88		1
	15	35	23.98	23.94	23.87	0-2	1
	27	0	23.91	23.92	23.88		1
	27	12	23.88	23.91	23.87		1
16QAM	27	23	23.90	23.92	23.86	0-2	1
	1	0	23.54	23.80	23.73		1
	1	25	23.45	23.68	23.70		1
	1	49	23.60	23.75	23.64	0-3	1
	25	0	23.01	23.00	22.96		2
	25	12	22.97	22.97	22.92		2
	25	25	23.02	22.98	22.93	0-5	2
	15	0	22.88	22.96	22.81		2
	15	17	22.84	22.92	22.74		2
	15	35	22.87	22.98	22.80	0-5	2
	27	0	22.93	22.88	22.91		2
	27	12	22.89	22.84	22.90		2
	27	23	22.92	22.80	22.88		2

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8.1.6

LTE Band 5

Table 8-6
LTE Band 5 Conducted Power – 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.53	0	0
	1	25	24.48		0
	1	49	24.49		0
	25	0	23.99	0-1	1
	25	12	23.95		1
	25	25	23.96		1
	50	0	23.97		1
	15	0	23.99	0-1	1
	15	17	23.93		1
	15	35	23.97		1
	27	0	23.95	0-2	1
	27	12	23.91		1
	27	23	23.90		1
16QAM	1	0	23.48	0-2	1
	1	25	23.45		1
	1	49	23.50		1
	25	0	22.28	0-3	2
	25	12	22.26		2
	25	25	22.28		2
	15	0	22.11	0-5	2
	15	17	22.05		2
	15	35	22.08		2
	27	0	22.22		2
	27	12	22.20		2
	27	23	22.21		2

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8.1.7

LTE Band 66

Table 8-7
LTE Band 66 Conducted Power – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.20	24.02	23.97	0	0
	1	50	24.24	24.08	23.90		0
	1	99	24.20	23.98	23.85		0
	50	0	23.71	23.73	23.59	0-1	1
	50	25	23.74	23.72	23.59		1
	50	50	23.68	23.70	23.54		1
	100	0	23.71	23.73	23.59		1
	15	0	24.05	24.14	23.98	0-1	0
	15	42	24.09	24.15	23.92		0
	15	85	24.05	24.05	23.89		0
	27	0	23.86	23.90	23.77	0-2	1
	27	37	23.87	23.89	23.73		1
	27	73	23.82	23.82	23.65		1
16QAM	1	0	23.48	23.66	23.65	0-2	1
	1	50	23.67	23.70	23.59		1
	1	99	23.61	23.57	23.40		1
	15	0	23.87	23.91	23.81	0-3	1
	15	42	24.04	23.97	23.84		1
	15	85	23.91	23.79	23.68		1
	27	0	22.97	22.94	22.76	0-5	2
	27	37	23.01	22.97	22.71		2
	27	73	22.98	22.89	22.62		2

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8.1.8

LTE Band 25

Table 8-8
LTE Band 25 Conducted Power – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.15	24.20	24.01	0	0
	1	50	24.25	24.22	24.09		0
	1	99	24.20	24.15	24.01		0
	50	0	23.75	23.58	23.55	0-1	1
	50	25	23.81	23.56	23.57		1
	50	50	23.79	23.55	23.58		1
	100	0	23.55	23.55	23.60	0-1	1
	15	0	24.21	24.27	24.07		0
	15	42	24.27	24.29	24.10		0
	15	85	24.25	24.23	24.05	0-2	0
	27	0	23.53	23.58	23.52		1
	27	37	23.62	23.59	23.59		1
27	73	23.65	23.51	23.53	1		
16QAM	1	0	23.87	23.40	22.84	0-2	1
	1	50	22.97	23.44	22.98		1
	1	99	22.91	23.41	22.90		1
	15	0	22.89	22.85	22.72	0-3	1
	15	42	22.88	22.89	22.83		1
	15	85	22.89	22.84	22.79		1
	27	0	21.90	21.60	21.91	0-5	2
	27	37	21.96	22.13	21.80		2
	27	73	21.87	22.37	21.92		2

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8.1.9

LTE Band 7

Table 8-9
LTE Band 7 Conducted Power – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.99	24.16	24.18	0	0
	1	50	24.10	24.21	24.29		0
	1	99	24.08	24.14	24.25		0
	50	0	23.55	23.74	23.81	0-1	1
	50	25	23.62	23.77	23.79		1
	50	50	23.62	23.75	23.78		1
	100	0	23.60	23.75	23.81	1	
	15	0	24.03	24.23	24.25	0-1	0
	15	42	24.12	24.27	24.31		0
	15	85	24.09	24.20	24.28		0
	27	0	23.50	23.69	23.73	0-2	1
	27	37	23.58	23.72	23.78		1
	27	73	23.57	23.69	23.75		1
16QAM	1	0	23.39	23.58	23.91	0-2	1
	1	50	23.47	23.64	23.88		1
	1	99	23.57	23.62	23.93		1
	15	0	23.11	23.26	23.40	0-3	1
	15	42	23.24	23.33	23.53		1
	15	85	23.27	23.29	23.45		1
	27	0	22.20	22.35	22.34	0-5	2
	27	37	22.29	22.39	22.41		2
27	73	22.34	22.37	22.33	2		

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8.1.10

LTE Band 7 Reduced

Table 8-10
LTE Band 7 Conducted Power – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.39	23.39	23.65	0	0
	1	50	23.50	23.49	23.71		0
	1	99	23.59	23.45	23.70		0
	50	0	22.91	23.09	23.20	0-1	0.5
	50	25	22.97	23.14	23.26		0.5
	50	50	23.00	23.13	23.17		0.5
	100	0	22.98	23.13	23.21	0.5	
	15	0	23.37	23.57	23.63	0-1	0
	15	42	23.50	23.62	23.69		0
	15	85	23.51	23.59	23.68		0
	27	0	22.85	23.05	23.13	0-2	0.5
	27	37	22.96	23.11	23.20		0.5
	27	73	22.99	23.08	23.12		0.5
16QAM	1	0	23.36	23.45	23.35	0-2	0.5
	1	50	23.40	23.39	23.29		0.5
	1	99	23.22	23.41	23.30		0.5
	15	0	23.09	23.12	23.29	0-3	0.5
	15	42	23.13	23.27	23.25		0.5
	15	85	23.19	23.31	23.27		0.5
	27	0	22.79	22.72	22.75	0-5	1.5
	27	37	22.72	22.72	22.79		1.5
27	73	22.79	22.76	22.80	1.5		

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8.1.11

LTE Band 41

Table 8-11
LTE Band 41 Conducted Power – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	23.98	23.90	23.99	23.81	23.93	0	0
	1	50	24.03	24.01	24.05	23.91	24.02		0
	1	99	23.89	24.06	23.96	23.85	23.96		0
	50	0	23.54	23.57	23.58	23.41	23.53	0-1	1
	50	25	23.58	23.60	23.60	23.42	23.54		1
	50	50	23.56	23.62	23.60	23.40	23.49		1
	100	0	23.59	23.61	23.60	23.39	23.55	0-1	1
	15	0	24.05	24.04	24.05	23.86	23.98		0
	15	42	24.09	24.10	24.11	23.94	24.03		0
	15	85	23.99	24.04	24.02	23.87	24.01	0-2	0
	27	0	23.54	23.55	23.56	23.35	23.44		1
	27	37	23.59	23.55	23.57	23.40	23.52		1
16QAM	27	73	23.51	23.56	23.54	23.36	23.46	0-2	1
	1	0	23.62	23.83	23.46	23.46	23.71		1
	1	50	23.80	23.85	23.56	23.50	23.85	0-2	1
	1	99	23.71	23.86	23.44	23.46	23.83		1
	15	0	23.18	23.17	23.35	23.00	23.09		1
	15	42	23.34	23.23	23.38	23.10	23.23	0-3	1
	15	85	23.25	23.26	23.35	23.00	23.16		1
	27	0	22.15	22.21	22.29	22.01	22.11		2
	27	37	22.26	22.24	22.34	22.02	22.22	0-5	2
	27	73	22.19	22.26	22.29	21.98	22.23		2



Figure 8-1
Power Measurement Setup

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8.2 NR Conducted Powers

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

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 for the group of overlapping channels should be selected for testing.

8.2.1 NR Band n71

Table 8-12
NR Band n71 Conducted Power – 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.81	0	0.0
	1	53	24.62		0.0
	1	104	24.45		0.0
	50	0	23.74	0-1	1.0
	50	28	24.83	0	0.0
	50	56	23.65	0-1	1.0
	100	0	23.71		1.0
DFT-s-OFDM 16QAM	1	1	23.56	0-1	1.0
CP-OFDM QPSK	1	1	23.23	0-1.5	1.5

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8.2.2

NR Band n12

Table 8-13
NR Band n12 Conducted Power – 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.73	0	0.0
	1	40	24.70		0.0
	1	77	24.77		0.0
	36	0	23.74	0-1	1.0
	36	22	24.73	0	0.0
	36	43	23.71	0-1	1.0
	75	0	23.68		1.0
DFT-s-OFDM 16QAM	1	1	23.42	0-1	1.0
CP-OFDM QPSK	1	1	23.11	0-1.5	1.5

8.2.3

NR Band n14

Table 8-14
NR Band n14 Conducted Power – 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.56	0	0.0
	1	26	24.50		0.0
	1	50	24.60		0.0
	25	0	23.65	0-1	1.0
	25	14	24.52	0	0.0
	25	27	24.48	0-1	1.0
	50	0	23.60		1.0
DFT-s-OFDM 16QAM	1	1	23.49	0-1	1.0
CP-OFDM QPSK	1	1	23.17	0-1.5	1.5

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8.2.4

NR Band n26

Table 8-15
NR Band n26 Conducted Power – 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.67	0	0.0
	1	53	24.64		0.0
	1	104	24.56		0.0
	50	0	23.64	0-1	1.0
	50	28	24.65	0	0.0
	50	56	23.57	0-1	1.0
	100	0	23.66		1.0
DFT-s-OFDM 16QAM	1	1	23.47	0-1	1.0
CP-OFDM QPSK	1	1	23.07	0-1.5	1.5

8.2.5

NR Band n5

Table 8-16
NR Band n5 Conducted Power – 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.52	0	0.0
	1	53	24.46		0.0
	1	104	24.54		0.0
	50	0	23.59	0-1	1.0
	50	28	24.57	0	0.0
	50	56	23.57	0-1	1.0
	100	0	23.65		1.0
DFT-s-OFDM 16QAM	1	1	23.45	0-1	1.0
CP-OFDM QPSK	1	1	23.08	0-1.5	1.5

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8.2.6

NR Band n66

Table 8-17
NR Band n66 Conducted Power – 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	23.91	24.02	23.79	0	0.0
	1	53	24.01	23.91	23.61		0.0
	1	104	24.06	23.82	23.62		0.0
	50	0	22.91	22.95	22.67	0-1	1.0
	50	28	24.04	23.90	23.58	0	0.0
	50	56	22.95	22.76	22.57	0-1	1.0
	100	0	22.90	22.85	22.58		1.0
DFT-s-OFDM 16QAM	1	1	22.59	22.65	22.53	0-1	1.0
CP-OFDM QPSK	1	1	22.45	22.13	22.03	0-1.5	1.5

8.2.7

NR Band n25

Table 8-18
NR Band n25 Conducted Power – 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	23.95	23.74	23.53	0	0.0
	1	53	23.81	23.61	23.68		0.0
	1	104	23.77	23.62	23.64		0.0
	50	0	22.87	22.68	22.60	0-1	1.0
	50	28	23.90	23.80	23.65	0	0.0
	50	56	22.87	22.65	22.62	0-1	1.0
	100	0	22.89	22.70	22.61		1.0
DFT-s-OFDM 16QAM	1	1	22.54	22.50	22.31	0-1	1.0
CP-OFDM QPSK	1	1	22.20	22.12	22.03	0-1.5	1.5

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8.2.8

NR Band n7

Table 8-19
NR Band n7 Conducted Power – 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.50	24.32	24.35	0	0.0
	1	53	24.47	24.45	24.31		0.0
	1	104	24.41	24.33	24.45		0.0
	50	0	23.46	23.33	23.42	0-1	1.0
	50	28	24.52	24.37	24.39	0	0.0
	50	56	23.39	23.38	23.40	0-1	1.0
	100	0	23.37	23.37	23.39		1.0
DFT-s-OFDM 16QAM	1	1	23.11	23.12	23.09	0-1	1.0
CP-OFDM QPSK	1	1	22.91	22.94	22.77	0-1.5	1.5

8.2.9

NR Band n7 Reduced

Table 8-20
NR Band n7 Reduced Conducted Power – 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	23.89	23.81	23.76	0	0.0
	1	53	23.77	23.77	23.79		0.0
	1	104	23.83	23.85	23.80		0.0
	50	0	23.43	23.31	23.35	0-1	0.0
	50	28	23.87	23.86	23.84	0	0.0
	50	56	23.30	23.34	23.35	0-1	0.0
	100	0	23.29	23.35	23.32		0.0
DFT-s-OFDM 16QAM	1	1	23.29	23.13	23.27	0-1	0.0
CP-OFDM QPSK	1	1	22.90	22.94	22.89	0-1.5	0.2

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8.2.10

NR Band n41

Table 8-21
NR Band n41 Conducted Power – 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	23.95	23.84	23.90	23.72	23.91	0	0.0
	1	26	23.97	23.79	24.02	23.76	23.83		0.0
	1	49	23.86	23.92	23.84	23.80	23.74		0.0
	25	0	23.45	23.42	23.49	23.32	23.30	0-1	1.0
	25	13	23.96	23.93	24.00	23.82	23.83	0	0.0
	25	26	23.37	23.44	23.51	23.35	23.32	0-1	1.0
	50	0	23.39	23.39	23.50	23.37	23.31		1.0
DFT-s-OFDM 16QAM	1	1	23.12	23.10	23.24	23.09	23.04	0-1	1.0
CP-OFDM QPSK	1	1	23.07	23.02	23.08	23.02	23.01	0-1.5	1.5

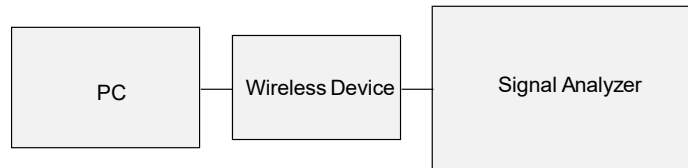


Figure 8-2
Power Measurement Setup

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8.3 WLAN Conducted Powers

Table 8-22
2.4 GHz WLAN Maximum Average RF Power

2.4GHz WIFI (20MHz 802.11b SISO)			2.4GHz WIFI (20MHz 802.11g SISO)			2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]	Freq. [MHz]	Channel	Conducted Power [dBm]	Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	18.04	2412	1	16.05	2412	1	16.13
2437	6	17.64	2437	6	17.02	2437	6	17.12
2462	11	17.60	2462	11	14.15	2462	11	14.21

Table 8-23
5 GHz WLAN Maximum Average RF Power

5GHz WIFI (20MHz 802.11a SISO)				5GHz WIFI (20MHz 802.11n SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	15.99	UNII-1	5180	36	15.99
	5200	40	15.86		5200	40	15.93
	5220	44	15.97		5220	44	16.00
	5240	48	15.97		5240	48	16.11
UNII-2A	5260	52	16.07	UNII-2A	5260	52	16.08
	5280	56	16.05		5280	56	15.97
	5300	60	16.31		5300	60	16.36
	5320	64	16.11		5320	64	16.07
UNII-2C	5500	100	16.15	UNII-2C	5500	100	15.95
	5600	120	16.02		5600	120	15.99
	5620	124	16.05		5620	124	15.78
	5720	144	15.98		5720	144	15.81
UNII-3	5745	149	15.61	UNII-3	5745	149	15.47
	5785	157	15.79		5785	157	15.68
	5825	165	15.78		5825	165	15.75

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.

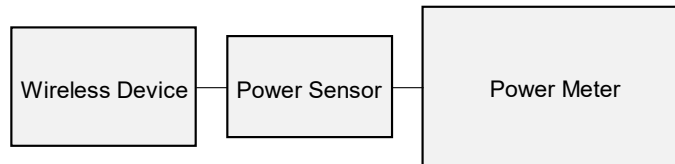


Figure 8-3
Power Measurement Setup

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8.4 Bluetooth Conducted Powers

Table 8-24
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	15.76	37.670
2441	GFSK	1.0	39	15.62	36.475
2480	GFSK	1.0	78	15.75	37.584

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

Table 8-25
Bluetooth Reduced RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.17	13.092
2441	GFSK	1.0	39	11.03	12.677
2480	GFSK	1.0	78	11.07	12.794

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

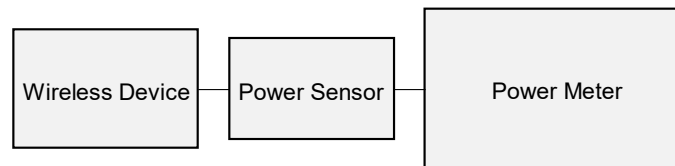


Figure 8-4
Power Measurement Setup

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8.5 802.15.4 ab-NB Conducted Powers

Table 8-26
802.15.4 ab-NB Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
5728.80	O-QPSK	1.0	Low	14.99	31.550
5786.30	O-QPSK	1.0	Middle	14.98	31.477
5846.30	O-QPSK	1.0	High	15.01	31.696

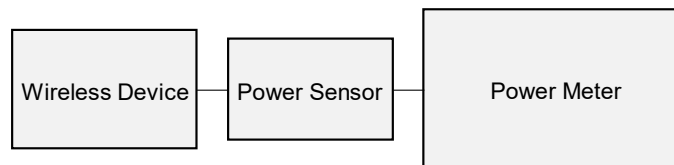


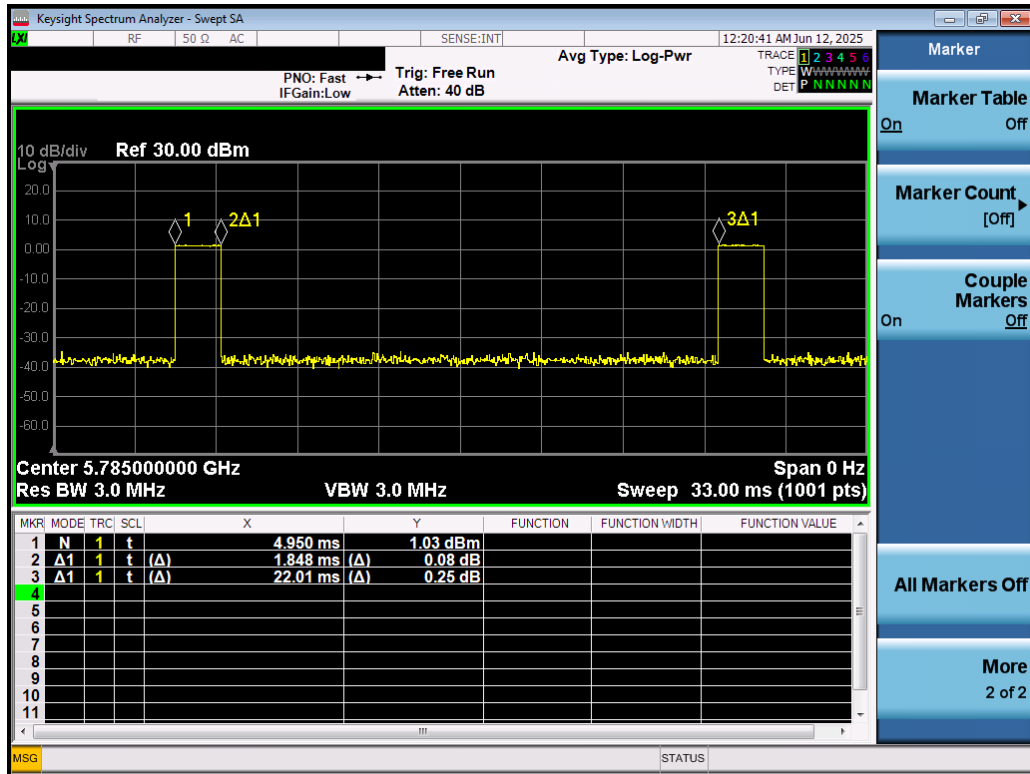
Figure 8-5
Power Measurement Setup

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8.6 802.15.4 ab-NB Duty Cycle

Figure 8-6
802.15.4 ab-NB Transmission Plot



Equation 8-1
802.15.4 ab-NB Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{1.848\ ms}{22.01\ ms} * 100\% = 8.40\%$$

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/11/2025	30 Head	24.0	4	0.756	57.517	0.750	55.000	0.80%	4.58%
			6	0.756	56.718	0.750	55.000	0.80%	3.12%
			12	0.757	54.997	0.750	55.000	0.93%	-0.01%
			13	0.757	54.894	0.750	55.000	0.93%	-0.19%
			14	0.757	54.831	0.750	55.000	0.93%	-0.31%
			30	0.760	54.238	0.750	55.000	1.33%	-1.39%
			60	0.765	53.651	0.753	54.325	1.59%	-1.24%
			65	0.766	53.454	0.753	54.213	1.73%	-1.40%
			150	0.794	51.770	0.760	52.300	4.47%	-1.01%
6/17/2025	750 Head	21.0	680	0.863	42.793	0.888	42.305	-2.82%	1.15%
			695	0.868	42.752	0.889	42.227	-2.36%	1.24%
			700	0.870	42.736	0.889	42.201	-2.14%	1.27%
			710	0.874	42.707	0.890	42.149	-1.80%	1.32%
			725	0.879	42.673	0.891	42.071	-1.35%	1.43%
			750	0.889	42.585	0.894	41.942	-0.56%	1.53%
			770	0.896	42.503	0.895	41.838	0.11%	1.59%
			785	0.902	42.450	0.896	41.760	0.67%	1.65%
			800	0.908	42.417	0.897	41.682	1.23%	1.76%
6/30/2025	750 Head	21.0	680	0.878	41.325	0.888	42.305	-1.13%	-2.32%
			695	0.883	41.286	0.889	42.227	-0.67%	-2.23%
			700	0.885	41.275	0.889	42.201	-0.45%	-2.19%
			710	0.888	41.252	0.890	42.149	-0.22%	-2.13%
			725	0.894	41.229	0.891	42.071	0.34%	-2.00%
			750	0.903	41.190	0.894	41.942	1.01%	-1.79%
			770	0.910	41.133	0.895	41.838	1.68%	-1.69%
			785	0.915	41.080	0.896	41.760	2.12%	-1.63%
			800	0.920	41.029	0.897	41.682	2.56%	-1.57%
7/1/2025	750 Head	24.0	680	0.860	40.939	0.888	42.305	-3.15%	-3.23%
			695	0.866	40.894	0.889	42.227	-2.59%	-3.16%
			700	0.867	40.879	0.889	42.201	-2.47%	-3.13%
			710	0.871	40.847	0.890	42.149	-2.13%	-3.09%
			725	0.876	40.810	0.891	42.071	-1.68%	-3.00%
			750	0.883	40.754	0.894	41.942	-1.23%	-2.83%
			770	0.888	40.718	0.895	41.838	-0.78%	-2.68%
			785	0.893	40.687	0.896	41.760	-0.33%	-2.57%
			800	0.898	40.634	0.897	41.682	0.11%	-2.51%
7/3/2025	750 Head	20.7	680	0.871	40.995	0.888	42.305	-1.91%	-3.10%
			695	0.876	40.938	0.889	42.227	-1.46%	-3.05%
			700	0.878	40.924	0.889	42.201	-1.24%	-3.03%
			710	0.882	40.890	0.890	42.149	-0.90%	-2.99%
			725	0.887	40.849	0.891	42.071	-0.45%	-2.90%
			750	0.896	40.763	0.894	41.942	0.22%	-2.81%
			770	0.903	40.689	0.895	41.838	0.89%	-2.75%
			785	0.908	40.642	0.896	41.760	1.34%	-2.68%
			800	0.913	40.594	0.897	41.682	1.78%	-2.61%
7/3/2025	750 Head	24.0	680	0.858	41.282	0.888	42.305	-3.38%	-2.42%
			695	0.864	41.272	0.889	42.227	-2.81%	-2.26%
			700	0.866	41.274	0.889	42.201	-2.59%	-2.20%
			710	0.868	41.269	0.890	42.149	-2.47%	-2.09%
			725	0.872	41.248	0.891	42.071	-2.13%	-1.96%
			750	0.878	41.138	0.894	41.942	-1.79%	-1.92%
			770	0.887	41.024	0.895	41.838	-0.89%	-1.95%
			785	0.893	40.976	0.896	41.760	-0.33%	-1.88%
			800	0.899	40.958	0.897	41.682	0.22%	-1.74%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/13/2025	835 Head	20.6	815	0.857	40.127	0.898	41.594	-4.57%	-3.53%
			820	0.861	40.049	0.899	41.578	-4.23%	-3.68%
			835	0.874	39.825	0.900	41.500	-2.89%	-4.04%
			850	0.888	39.620	0.916	41.500	-3.06%	-4.53%
6/16/2025	835 Head	20.5	815	0.906	42.159	0.898	41.594	0.89%	1.36%
			820	0.911	42.088	0.899	41.578	1.33%	1.23%
			835	0.927	41.881	0.900	41.500	3.00%	0.92%
			850	0.942	41.682	0.916	41.500	2.84%	0.44%
6/18/2025	835 Head	20.3	815	0.869	40.674	0.898	41.594	-3.23%	-2.21%
			820	0.874	40.616	0.899	41.578	-2.78%	-2.31%
			835	0.888	40.432	0.900	41.500	-1.33%	-2.57%
			850	0.903	40.237	0.916	41.500	-1.42%	-3.04%
6/22/2025	835 Head	21.0	815	0.868	40.683	0.898	41.594	-3.34%	-2.19%
			820	0.873	40.616	0.899	41.578	-2.89%	-2.31%
			835	0.887	40.419	0.900	41.500	-1.44%	-2.60%
			850	0.901	40.232	0.916	41.500	-1.64%	-3.06%
6/27/2025	835 Head	20.6	815	0.896	41.723	0.898	41.594	-0.22%	0.31%
			820	0.901	41.661	0.899	41.578	0.22%	0.20%
			835	0.917	41.469	0.900	41.500	1.89%	-0.07%
			850	0.933	41.268	0.916	41.500	1.86%	-0.56%
7/3/2025	835 Head	20.6	815	0.861	40.161	0.898	41.594	-4.12%	-3.45%
			820	0.866	40.093	0.899	41.578	-3.67%	-3.57%
			835	0.880	39.893	0.900	41.500	-2.22%	-3.87%
			850	0.894	39.705	0.916	41.500	-2.40%	-4.33%
7/1/2025	1750 Head	20.8	1700	1.348	38.887	1.343	40.145	0.37%	-3.13%
			1705	1.354	38.855	1.345	40.141	0.67%	-3.20%
			1710	1.361	38.823	1.348	40.136	0.96%	-3.27%
			1720	1.375	38.767	1.354	40.126	1.55%	-3.39%
			1745	1.412	38.660	1.368	40.087	3.22%	-3.56%
			1750	1.418	38.644	1.371	40.079	3.43%	-3.58%
			1770	1.436	38.584	1.383	40.047	3.83%	-3.65%
			1790	1.449	38.505	1.394	40.016	3.95%	-3.78%
7/3/2025	1750 Head	20.4	1700	1.358	39.583	1.343	40.145	1.12%	-1.40%
			1705	1.363	39.564	1.345	40.141	1.34%	-1.44%
			1710	1.367	39.544	1.348	40.136	1.41%	-1.47%
			1720	1.376	39.504	1.354	40.126	1.62%	-1.55%
			1745	1.399	39.386	1.368	40.087	2.27%	-1.75%
			1750	1.404	39.357	1.371	40.079	2.41%	-1.80%
			1770	1.426	39.242	1.383	40.047	3.11%	-2.01%
			1790	1.449	39.138	1.394	40.016	3.95%	-2.19%
6/23/2025	1900 Head	20.6	1850	1.384	40.493	1.400	40.000	-1.14%	1.23%
			1860	1.397	40.452	1.400	40.000	-0.21%	1.13%
			1880	1.418	40.428	1.400	40.000	1.29%	1.07%
			1900	1.433	40.423	1.400	40.000	2.36%	1.06%
			1905	1.436	40.412	1.400	40.000	2.57%	1.03%
			1910	1.439	40.393	1.400	40.000	2.79%	0.98%
			1920	1.446	40.337	1.400	40.000	3.29%	0.84%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/10/2025	2450 Head	20.3	2300	1.720	41.147	1.670	39.500	2.96%	4.17%
			2310	1.728	41.137	1.679	39.480	2.92%	4.20%
			2320	1.736	41.126	1.687	39.460	2.92%	4.22%
			2400	1.801	40.988	1.756	39.289	2.58%	4.33%
			2450	1.842	40.912	1.800	39.200	2.34%	4.37%
			2480	1.867	40.849	1.833	39.162	1.84%	4.31%
			2500	1.884	40.813	1.855	39.136	1.55%	4.28%
			2510	1.892	40.797	1.866	39.123	1.39%	4.28%
			2535	1.913	40.762	1.893	39.092	1.04%	4.27%
			2550	1.925	40.739	1.909	39.073	0.81%	4.26%
			2560	1.933	40.720	1.920	39.060	0.66%	4.25%
			2600	1.967	40.646	1.964	39.009	0.16%	4.20%
			2650	2.011	40.570	2.018	38.945	-0.36%	4.17%
			2680	2.035	40.519	2.051	38.907	-0.77%	4.14%
			2700	2.053	40.480	2.073	38.882	-0.96%	4.11%
6/13/2025	2450 Head	21.9	2300	1.698	38.773	1.670	39.500	1.68%	-1.84%
			2310	1.706	38.760	1.679	39.480	1.61%	-1.82%
			2320	1.714	38.744	1.687	39.460	1.60%	-1.81%
			2400	1.774	38.615	1.756	39.289	1.03%	-1.72%
			2450	1.811	38.544	1.800	39.200	0.61%	-1.67%
			2480	1.836	38.490	1.833	39.162	0.16%	-1.72%
			2500	1.853	38.458	1.855	39.136	-0.11%	-1.73%
			2510	1.861	38.445	1.866	39.123	-0.27%	-1.73%
			2535	1.880	38.410	1.893	39.092	-0.69%	-1.74%
			2550	1.892	38.388	1.909	39.073	-0.89%	-1.75%
			2560	1.901	38.369	1.920	39.060	-0.99%	-1.77%
			2600	1.936	38.293	1.964	39.009	-1.43%	-1.84%
			2650	1.978	38.216	2.018	38.945	-1.98%	-1.87%
			2680	2.002	38.155	2.051	38.907	-2.39%	-1.93%
			2700	2.020	38.110	2.073	38.882	-2.56%	-1.99%
6/18/2025	2450 Head	21.0	2300	1.677	38.672	1.670	39.500	0.42%	-2.10%
			2310	1.681	38.643	1.679	39.480	0.12%	-2.12%
			2320	1.688	38.626	1.687	39.460	0.06%	-2.11%
			2400	1.752	38.550	1.756	39.289	-0.23%	-1.88%
			2450	1.787	38.439	1.800	39.200	-0.72%	-1.94%
			2480	1.824	38.422	1.833	39.162	-0.49%	-1.89%
			2500	1.836	38.401	1.855	39.136	-1.02%	-1.88%
			2510	1.837	38.383	1.866	39.123	-1.55%	-1.89%
			2535	1.845	38.337	1.893	39.092	-2.54%	-1.93%
			2550	1.858	38.312	1.909	39.073	-2.67%	-1.95%
			2560	1.871	38.295	1.920	39.060	-2.55%	-1.96%
			2600	1.922	38.253	1.964	39.009	-2.14%	-1.94%
			2650	1.936	38.188	2.018	38.945	-4.06%	-1.94%
			2680	1.972	38.107	2.051	38.907	-3.85%	-2.06%
			2700	2.002	38.058	2.073	38.882	-3.42%	-2.12%
6/20/2025	2450 Head	19.5	2300	1.653	39.453	1.670	39.500	-1.02%	-0.12%
			2310	1.661	39.444	1.679	39.480	-1.07%	-0.09%
			2320	1.670	39.433	1.687	39.460	-1.01%	-0.07%
			2400	1.732	39.305	1.756	39.289	-1.37%	0.04%
			2450	1.771	39.229	1.800	39.200	-1.61%	0.07%
			2480	1.795	39.178	1.833	39.162	-2.07%	0.04%
			2500	1.812	39.138	1.855	39.136	-2.32%	0.01%
			2510	1.819	39.120	1.866	39.123	-2.52%	-0.01%
			2535	1.838	39.078	1.893	39.092	-2.91%	-0.04%
			2550	1.851	39.052	1.909	39.073	-3.04%	-0.05%
			2560	1.860	39.035	1.920	39.060	-3.12%	-0.06%
			2600	1.893	38.949	1.964	39.009	-3.62%	-0.15%
			2650	1.933	38.874	2.018	38.945	-4.21%	-0.18%
			2680	1.958	38.799	2.051	38.907	-4.53%	-0.28%
			2700	1.974	38.757	2.073	38.882	-4.78%	-0.32%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/23/2025	2450 Head	21.0	2300	1.669	40.437	1.670	39.500	-0.06%	2.37%
			2310	1.676	40.425	1.679	39.480	-0.18%	2.39%
			2320	1.683	40.412	1.687	39.460	-0.24%	2.41%
			2400	1.744	40.286	1.756	39.289	-0.68%	2.54%
			2450	1.780	40.229	1.800	39.200	-1.11%	2.62%
			2480	1.804	40.171	1.833	39.162	-1.58%	2.58%
			2500	1.821	40.138	1.855	39.136	-1.83%	2.56%
			2510	1.829	40.126	1.866	39.123	-1.98%	2.56%
			2535	1.850	40.098	1.893	39.092	-2.27%	2.57%
			2550	1.862	40.076	1.909	39.073	-2.46%	2.57%
			2560	1.869	40.059	1.920	39.060	-2.66%	2.56%
			2600	1.901	39.982	1.964	39.009	-3.21%	2.49%
			2650	1.945	39.914	2.018	38.945	-3.62%	2.49%
			2680	1.968	39.871	2.051	38.907	-4.05%	2.48%
6/23/2025	2450 Head	24.6	2700	1.984	39.830	2.073	38.882	-4.29%	2.44%
			2300	1.680	39.256	1.670	39.500	0.60%	-0.62%
			2310	1.690	39.227	1.679	39.480	0.66%	-0.64%
			2320	1.701	39.191	1.687	39.460	0.83%	-0.68%
			2400	1.800	38.871	1.756	39.289	2.51%	-1.06%
			2450	1.854	38.671	1.800	39.200	3.00%	-1.35%
			2480	1.895	38.506	1.833	39.162	3.38%	-1.68%
			2500	1.921	38.441	1.855	39.136	3.56%	-1.78%
			2510	1.932	38.421	1.866	39.123	3.54%	-1.79%
			2535	1.957	38.357	1.893	39.092	3.38%	-1.88%
			2550	1.974	38.290	1.909	39.073	3.40%	-2.00%
			2560	1.986	38.232	1.920	39.060	3.44%	-2.12%
			2600	2.042	38.028	1.964	39.009	3.97%	-2.51%
			2650	2.096	37.902	2.018	38.945	3.87%	-2.68%
7/2/2025	2450 Head	20.6	2680	2.129	37.737	2.051	38.907	3.80%	-3.01%
			2700	2.157	37.629	2.073	38.882	4.05%	-3.22%
			2400	1.746	39.971	1.756	39.289	-0.57%	1.74%
			2450	1.781	39.966	1.800	39.200	-1.06%	1.95%
			2480	1.807	39.888	1.833	39.162	-1.42%	1.85%
			2500	1.823	39.829	1.855	39.136	-1.73%	1.77%
			2510	1.830	39.808	1.866	39.123	-1.93%	1.75%
			2535	1.848	39.781	1.893	39.092	-2.38%	1.76%
			2550	1.860	39.773	1.909	39.073	-2.57%	1.79%
			2560	1.869	39.762	1.920	39.060	-2.66%	1.80%
			2600	1.903	39.662	1.964	39.009	-3.11%	1.67%
			2650	1.940	39.556	2.018	38.945	-3.87%	1.57%
			2680	1.968	39.532	2.051	38.907	-4.05%	1.61%
			2700	1.986	39.503	2.073	38.882	-4.20%	1.60%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/22/2025	5200-5800 Head	20.0	5150	4.464	35.260	4.608	36.050	-3.12%	-2.19%
			5160	4.479	35.257	4.618	36.040	-3.01%	-2.17%
			5170	4.487	35.237	4.629	36.030	-3.07%	-2.20%
			5180	4.495	35.206	4.635	36.009	-3.02%	-2.23%
			5190	4.505	35.186	4.645	35.998	-3.01%	-2.26%
			5200	4.516	35.171	4.655	35.986	-2.99%	-2.26%
			5210	4.527	35.161	4.666	35.975	-2.98%	-2.26%
			5220	4.538	35.146	4.676	35.963	-2.95%	-2.27%
			5240	4.569	35.095	4.696	35.940	-2.70%	-2.35%
			5250	4.579	35.078	4.706	35.929	-2.70%	-2.37%
			5260	4.587	35.075	4.717	35.917	-2.76%	-2.34%
			5270	4.593	35.065	4.727	35.906	-2.83%	-2.34%
			5280	4.604	35.047	4.737	35.894	-2.81%	-2.36%
			5290	4.614	35.025	4.748	35.883	-2.82%	-2.39%
			5300	4.629	34.994	4.758	35.871	-2.71%	-2.44%
			5310	4.640	34.971	4.768	35.860	-2.68%	-2.48%
			5320	4.651	34.950	4.778	35.849	-2.66%	-2.51%
			5500	4.849	34.633	4.963	35.643	-2.30%	-2.83%
			5510	4.859	34.627	4.973	35.632	-2.29%	-2.82%
			5520	4.871	34.627	4.983	35.620	-2.25%	-2.79%
			5530	4.880	34.592	4.994	35.609	-2.28%	-2.86%
			5540	4.893	34.551	5.004	35.597	-2.22%	-2.94%
			5550	4.905	34.520	5.014	35.586	-2.17%	-3.00%
			5560	4.920	34.514	5.024	35.574	-2.07%	-2.98%
			5580	4.939	34.502	5.045	35.551	-2.10%	-2.95%
			5600	4.959	34.437	5.065	35.529	-2.09%	-3.07%
			5610	4.971	34.423	5.076	35.518	-2.07%	-3.08%
			5620	4.982	34.422	5.086	35.506	-2.04%	-3.05%
			5640	5.008	34.388	5.106	35.483	-1.92%	-3.09%
			5660	5.039	34.322	5.127	35.460	-1.72%	-3.21%
			5670	5.049	34.303	5.137	35.449	-1.71%	-3.23%
			5680	5.056	34.299	5.147	35.437	-1.77%	-3.21%
			5690	5.061	34.289	5.158	35.426	-1.88%	-3.21%
			5700	5.076	34.278	5.168	35.414	-1.78%	-3.21%
			5710	5.089	34.260	5.178	35.403	-1.72%	-3.23%
			5720	5.099	34.247	5.188	35.391	-1.72%	-3.23%
			5745	5.128	34.190	5.214	35.363	-1.65%	-3.32%
			5750	5.137	34.179	5.219	35.357	-1.57%	-3.33%
			5755	5.143	34.164	5.224	35.351	-1.55%	-3.36%
			5765	5.155	34.144	5.234	35.340	-1.51%	-3.38%
			5775	5.165	34.133	5.245	35.329	-1.53%	-3.39%
			5785	5.177	34.124	5.255	35.317	-1.48%	-3.38%
			5795	5.189	34.105	5.265	35.305	-1.44%	-3.40%
			5800	5.195	34.092	5.270	35.300	-1.42%	-3.42%
			5805	5.200	34.082	5.275	35.294	-1.42%	-3.43%
			5825	5.217	34.067	5.296	35.271	-1.49%	-3.41%
			5835	5.227	34.051	5.305	35.230	-1.47%	-3.35%
			5845	5.237	34.027	5.315	35.210	-1.47%	-3.36%
			5850	5.243	34.014	5.320	35.200	-1.45%	-3.37%
			5855	5.247	34.004	5.325	35.197	-1.46%	-3.39%
			5865	5.261	33.982	5.336	35.190	-1.41%	-3.43%
			5875	5.280	33.959	5.347	35.183	-1.25%	-3.48%
			5885	5.298	33.941	5.357	35.177	-1.10%	-3.51%
			5905	5.311	33.913	5.379	35.163	-1.26%	-3.55%

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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	5200-5800 Head	20.0	5150	4.530	36.203	4.608	36.050	-1.69%	0.42%
			5160	4.540	36.191	4.618	36.040	-1.69%	0.42%
			5170	4.553	36.166	4.629	36.030	-1.64%	0.38%
			5180	4.564	36.144	4.635	36.009	-1.53%	0.37%
			5190	4.579	36.126	4.645	35.998	-1.42%	0.36%
			5200	4.586	36.108	4.655	35.986	-1.48%	0.34%
			5210	4.598	36.098	4.666	35.975	-1.46%	0.34%
			5220	4.612	36.087	4.676	35.963	-1.37%	0.34%
			5240	4.638	36.040	4.696	35.940	-1.24%	0.28%
			5250	4.648	36.019	4.706	35.929	-1.23%	0.25%
			5260	4.655	36.004	4.717	35.917	-1.31%	0.24%
			5270	4.667	35.991	4.727	35.906	-1.27%	0.24%
			5280	4.679	35.975	4.737	35.894	-1.22%	0.23%
			5290	4.690	35.944	4.748	35.883	-1.22%	0.17%
			5300	4.702	35.921	4.758	35.871	-1.18%	0.14%
			5310	4.710	35.905	4.768	35.860	-1.22%	0.13%
			5320	4.723	35.903	4.778	35.849	-1.15%	0.15%
			5500	4.924	35.563	4.963	35.643	-0.79%	-0.22%
			5510	4.930	35.552	4.973	35.632	-0.86%	-0.22%
			5520	4.941	35.537	4.983	35.620	-0.84%	-0.23%
			5530	4.954	35.503	4.994	35.609	-0.80%	-0.30%
			5540	4.971	35.468	5.004	35.597	-0.66%	-0.36%
			5550	4.984	35.443	5.014	35.586	-0.60%	-0.40%
			5560	4.994	35.437	5.024	35.574	-0.60%	-0.39%
			5580	5.007	35.412	5.045	35.551	-0.75%	-0.39%
			5600	5.041	35.368	5.065	35.529	-0.47%	-0.45%
			5610	5.055	35.363	5.076	35.518	-0.41%	-0.44%
			5620	5.064	35.357	5.086	35.506	-0.43%	-0.42%
			5640	5.089	35.298	5.106	35.483	-0.33%	-0.52%
			5660	5.115	35.257	5.127	35.460	-0.23%	-0.57%
			5670	5.122	35.245	5.137	35.449	-0.29%	-0.58%
			5680	5.134	35.232	5.147	35.437	-0.25%	-0.58%
			5690	5.148	35.222	5.158	35.426	-0.19%	-0.58%
			5700	5.160	35.202	5.168	35.414	-0.15%	-0.60%
			5710	5.172	35.184	5.178	35.403	-0.12%	-0.62%
			5720	5.179	35.164	5.188	35.391	-0.17%	-0.64%
			5745	5.212	35.096	5.214	35.363	-0.04%	-0.76%
			5750	5.219	35.081	5.219	35.357	0.00%	-0.78%
			5755	5.225	35.071	5.224	35.351	0.02%	-0.79%
			5765	5.238	35.056	5.234	35.340	0.08%	-0.80%
			5775	5.247	35.047	5.245	35.329	0.04%	-0.80%
			5785	5.260	35.041	5.255	35.317	0.10%	-0.78%
			5795	5.271	35.032	5.265	35.305	0.11%	-0.77%
			5800	5.278	35.024	5.270	35.300	0.15%	-0.78%
			5805	5.284	35.014	5.275	35.294	0.17%	-0.79%
			5825	5.302	34.978	5.296	35.271	0.11%	-0.83%
			5835	5.311	34.972	5.305	35.230	0.11%	-0.73%
			5845	5.324	34.961	5.315	35.210	0.17%	-0.71%
			5850	5.329	34.950	5.320	35.200	0.17%	-0.71%
			5855	5.336	34.943	5.325	35.197	0.21%	-0.72%
			5865	5.351	34.911	5.336	35.190	0.28%	-0.79%
			5875	5.362	34.878	5.347	35.183	0.28%	-0.87%
			5885	5.369	34.848	5.357	35.177	0.22%	-0.94%
			5905	5.394	34.819	5.379	35.163	0.28%	-0.98%

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 (%)
AM1	750	HEAD	06/30/2025	23.5	21.0	0.20	1097	7357	1582	1.710	8.270	8.550	3.39%
AM1	750	HEAD	07/03/2025	22.0	21.1	0.20	1057	7357	1582	1.760	8.800	8.800	0.00%
AM10	750	HEAD	07/03/2025	21.6	22.4	0.20	1097	3837	793	1.660	8.270	8.300	0.36%
AM12	835	HEAD	06/13/2025	21.6	20.8	0.20	4d108	7427	1408	2.040	9.800	10.200	4.08%
AM12	835	HEAD	06/16/2025	21.8	20.9	0.20	4d108	7427	1408	2.070	9.800	10.350	5.61%
AM12	835	HEAD	06/22/2025	22.0	20.9	0.20	4d108	7427	1408	1.970	9.800	9.850	0.51%
AM12	835	HEAD	06/27/2025	24.1	20.4	0.20	4d108	7427	1408	2.010	9.800	10.050	2.55%
AM14	1750	HEAD	07/01/2025	21.8	20.6	0.10	1040	3746	1237	3.540	36.400	35.400	-2.75%
AM14	1750	HEAD	07/03/2025	22.1	20.6	0.10	1040	3746	1237	3.480	36.400	34.800	-4.40%
AM15	1900	HEAD	06/23/2025	21.2	20.9	0.10	5d180	7638	467	4.180	39.200	41.800	6.63%
AM11	2450	HEAD	06/10/2025	24.1	20.7	0.10	750	7551	1323	5.610	53.300	56.100	5.25%
AM11	2450	HEAD	06/20/2025	24.1	21.3	0.10	750	7551	1323	4.980	53.300	49.800	-6.57%
AM16	2450	HEAD	06/23/2025	21.0	23.4	0.10	750	7532	501	5.270	53.300	52.700	-1.13%
AM11	2450	HEAD	07/02/2025	19.6	19.5	0.10	750	7551	1323	5.020	53.300	50.200	-5.82%
AM11	2600	HEAD	06/20/2025	24.1	21.3	0.10	1042	7551	1323	5.440	54.900	54.400	-0.91%
AM16	2600	HEAD	06/23/2025	21.0	23.4	0.10	1042	7532	501	5.600	54.900	56.000	2.00%
AM11	2600	HEAD	07/02/2025	19.6	19.5	0.10	1042	7551	1323	5.540	54.900	55.400	0.91%
AM8	5250	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.160	77.900	83.200	6.80%
AM8	5250	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	3.820	77.900	76.400	-1.93%
AM8	5600	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.290	81.800	85.800	4.89%
AM8	5600	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	4.340	81.800	86.800	6.11%
AM8	5750	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.170	80.700	83.400	3.35%
AM8	5750	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	3.960	80.700	79.200	-1.86%
AM8	5850	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.040	77.400	80.800	4.39%
AM8	5850	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	4.100	77.400	82.000	5.94%

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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	07/11/2025	20.2	22.3	1.00	1004	3746	1237	0.372	0.355	0.372	4.79%
AM1	750	HEAD	06/17/2025	23.4	21.0	0.20	1097	7357	1582	1.160	5.380	5.800	7.81%
AM1	750	HEAD	06/30/2025	23.5	21.0	0.20	1097	7357	1582	1.140	5.380	5.700	5.95%
AM10	750	HEAD	07/01/2025	21.1	22.4	0.20	1057	3837	793	1.140	5.730	5.700	-0.52%
AM12	835	HEAD	06/16/2025	21.8	20.9	0.20	4d108	7427	1408	1.360	6.340	6.800	7.26%
AM12	835	HEAD	06/18/2025	22.5	20.8	0.20	4d108	7427	1408	1.320	6.340	6.600	4.10%
AM12	835	HEAD	07/03/2025	21.6	20.1	0.20	4d108	7427	1408	1.360	6.340	6.800	7.26%
AM14	1750	HEAD	07/03/2025	22.1	20.6	0.10	1040	3746	1237	1.840	19.100	18.400	-3.66%
AM15	1900	HEAD	06/23/2025	21.2	20.9	0.10	5d180	7638	467	2.170	20.600	21.700	5.34%
AM11	2450	HEAD	06/10/2025	24.1	20.7	0.10	750	7551	1323	2.620	25.100	26.200	4.38%
AM11	2450	HEAD	06/13/2025	23.9	21.4	0.10	750	7551	1323	2.570	25.100	25.700	2.39%
AM11	2450	HEAD	06/18/2025	19.9	20.0	0.10	750	7551	1323	2.400	25.100	24.000	-4.38%
AM11	2450	HEAD	06/23/2025	22.2	22.0	0.10	750	7551	1323	2.360	25.100	23.600	-5.98%
AM11	2600	HEAD	06/18/2025	19.9	20.0	0.10	1042	7551	1323	2.380	24.500	23.800	-2.86%
AM11	2600	HEAD	06/23/2025	22.2	22.0	0.10	1042	7551	1323	2.390	24.500	23.900	-2.45%
AM8	5250	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.180	22.500	23.600	4.89%
AM8	5250	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	1.090	22.500	21.800	-3.11%
AM8	5600	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.210	23.700	24.200	2.11%
AM8	5600	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	1.230	23.700	24.600	3.80%
AM8	5750	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.180	23.200	23.600	1.72%
AM8	5750	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	1.130	23.200	22.600	-2.59%
AM8	5850	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.140	22.200	22.800	2.70%
AM8	5850	HEAD	07/11/2025	20.4	19.6	0.05	1066	7499	1465	1.160	22.200	23.200	4.50%

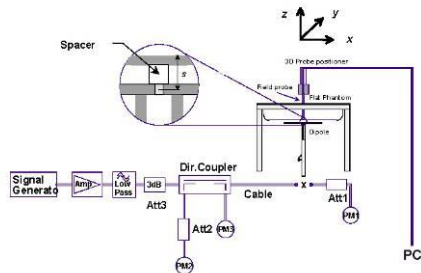


Figure 9-1
System Verification Setup Diagram



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 #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 71	20	QPSK	Aluminum	Sport	100NK	1:1	0.11	680.50	133297	0.0	25.70	24.53	1	50	Front	10	0.001	1.309	0.001	0.001		54.1	51.1
Head	LTE Band 71	20	QPSK	Aluminum	Sport	100NK	1:1	0.02	680.50	133297	1.0	24.70	24.04	50	0	Front	10	0.000	1.164	0.000	0.000		63.6	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.01	680.50	133297	0.0	25.70	24.53	1	50	Front	10	0.001	1.309	0.001	0.001		54.1	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.01	680.50	133297	1.0	24.70	24.04	50	0	Front	10	0.000	1.164	0.000	0.000		63.6	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.03	680.50	133297	0.0	25.70	24.53	1	50	Front	10	0.002	1.309	0.003	0.002		51.1	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.04	680.50	133297	1.0	24.70	24.04	50	0	Front	10	0.001	1.164	0.001	0.001		53.6	
Head	LTE Band 71	20	QPSK	Titanium	Sport	70XTQ	1:1	0.08	680.50	133297	0.0	25.70	24.53	1	50	Front	10	0.002	1.309	0.003	0.002		51.1	
Head	LTE Band 71	20	QPSK	Titanium	Sport	70XTQ	1:1	0.02	680.50	133297	1.0	24.70	24.04	50	0	Front	10	0.001	1.164	0.001	0.001		53.6	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.09	680.50	133297	0.0	25.70	24.53	1	50	Front	10	0.000	1.309	0.000	0.000		64.1	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.05	680.50	133297	1.0	24.70	24.04	50	0	Front	10	0.001	1.164	0.000	0.000		63.6	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	70XTQ	1:1	0.01	680.50	133297	0.0	25.70	24.53	1	50	Front	10	0.002	1.309	0.003	0.002	A1	51.1	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	70XTQ	1:1	0.11	680.50	133297	1.0	24.70	24.04	50	0	Front	10	0.001	1.164	0.001	0.001		53.6	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Head Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																								

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 #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	70V6K	1:1	-0.04	680.50	133297	0.0	25.70	24.53	1	50	Back	0	0.072	1.309	0.094	0.024		39.5	35.0
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	70V6K	1:1	-0.05	680.50	133297	1.0	24.70	24.04	50	0	Back	0	0.055	1.164	0.064	0.016		40.1	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	70V6K	1:1	0.00	680.50	133297	0.0	25.70	24.53	1	50	Back	0	0.128	1.309	0.168	0.042		37.0	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	70V6K	1:1	-0.02	680.50	133297	1.0	24.70	24.04	50	0	Back	0	0.109	1.164	0.127	0.032		37.2	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	70V6K	1:1	0.12	680.50	133297	0.0	25.70	24.53	1	50	Back	0	0.182	1.309	0.238	0.060		35.4	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	70V6K	1:1	0.18	680.50	133297	1.0	24.70	24.04	50	0	Back	0	0.151	1.164	0.176	0.044		35.8	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	W6VTY	1:1	-0.09	680.50	133297	0.0	25.70	24.53	1	50	Back	0	0.040	1.309	0.052	0.013		42.0	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	W6VTY	1:1	0.02	680.50	133297	1.0	24.70	24.04	50	0	Back	0	0.036	1.164	0.042	0.011		42.0	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	W6VTY	1:1	0.08	680.50	133297	0.0	25.70	24.53	1	50	Back	0	0.140	1.309	0.183	0.046		36.6	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	W6VTY	1:1	0.10	680.50	133297	1.0	24.70	24.04	50	0	Back	0	0.098	1.164	0.114	0.029		37.6	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	W6VTY	1:1	-0.04	680.50	133297	0.0	25.70	24.53	1	50	Back	0	0.202	1.309	0.264	0.066	A2	35.0	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	W6VTY	1:1	0.01	680.50	133297	1.0	24.70	24.04	50	0	Back	0	0.153	1.164	0.178	0.045		35.7	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Extremity Spatial Peak 4.0 W/kg (mW/g) averaged over 10 grams								
Uncontrolled Exposure/General Population																								

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 [W/kg]	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 #	Plimit [dBm]	Overall Plimit [dBm]			
Head	LTE Band 12	10	QPSK	Aluminum	Sport	MAK1K	1:1	0.04	707.50	23095	0.0	25.70	24.49	1	0	Front	10	0.001	1.321	0.001	0.001		54.0	48.8			
Head	LTE Band 12	10	QPSK	Aluminum	Sport	MAK1K	1:1	0.05	707.50	23095	1.0	24.70	24.00	25	0	Front	10	0.001	1.175	0.001	0.001		53.5				
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	MAK1K	1:1	0.06	707.50	23095	0.0	25.70	24.49	1	0	Front	10	0.000	1.321	0.000	0.000		64.0				
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	MAK1K	1:1	0.04	707.50	23095	1.0	24.70	24.00	25	0	Front	10	0.000	1.175	0.000	0.000		63.5				
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	MAK1K	1:1	0.04	707.50	23095	0.0	25.70	24.49	1	0	Front	10	0.001	1.321	0.004	0.003	A3	49.3				
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	MAK1K	1:1	0.02	707.50	23095	1.0	24.70	24.00	25	0	Front	10	0.002	1.175	0.002	0.001		50.5				
Head	LTE Band 12	10	QPSK	Titanium	Sport	W6VTY	1:1	0.06	707.50	23095	0.0	25.70	24.49	1	0	Front	10	0.000	1.321	0.000	0.000		64.0				
Head	LTE Band 12	10	QPSK	Titanium	Sport	W6VTY	1:1	0.06	707.50	23095	1.0	24.70	24.00	25	0	Front	10	0.000	1.175	0.000	0.000		63.5				
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	W6VTY	1:1	0.01	707.50	23095	0.0	25.70	24.49	1	0	Front	10	0.000	1.321	0.000	0.000		64.0				
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	W6VTY	1:1	0.02	707.50	23095	1.0	24.70	24.00	25	0	Front	10	0.001	1.175	0.001	0.001		53.5				
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	W6VTY	1:1	0.05	707.50	23095	0.0	25.70	24.49	1	0	Front	10	0.003	1.321	0.004	0.003		49.3				
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	W6VTY	1:1	0.06	707.50	23095	1.0	24.70	24.00	25	0	Front	10	0.003	1.175	0.004	0.003		48.8				
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Head Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																											

FCC ID: BCG-A3335

RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Watch

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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 #	MPE [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 [SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]			
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	CC79M	1-1	-0.17	707.50	23095	0.0	25.70	24.49	1	0	Back	0	0.043	1.321	0.057	0.014		41.7				
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	CC79M	1-1	-0.06	707.50	23095	1.0	24.70	24.00	25	0	Back	0	0.043	1.175	0.048	0.012		41.4				
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	CC79M	1-1	-0.05	707.50	23095	0.0	25.70	24.49	1	0	Back	0	0.159	1.321	0.261	0.066		35.0				
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	CC79M	1-1	0.01	707.50	23095	1.0	24.70	24.00	25	0	Back	0	0.178	1.175	0.209	0.052		35.0				
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	CC79M	1-1	0.04	707.50	23095	0.0	25.70	24.49	1	0	Back	0	0.279	1.321	0.369	0.092	A4	33.5				
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	CC79M	1-1	0.13	707.50	23095	1.0	24.70	24.00	25	0	Back	0	0.240	1.175	0.262	0.071		33.7				
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	CC79M	1-1	0.04	707.50	23095	0.0	25.70	24.49	1	0	Back	0	0.037	1.321	0.040	0.012		42.3				
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	WEVTV	1-1	0.05	707.50	23095	1.0	24.70	24.00	25	0	Back	0	0.034	1.175	0.040	0.010		42.2				
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	WEVTV	1-1	0.03	707.50	23095	0.0	25.70	24.49	1	0	Back	0	0.118	1.321	0.156	0.039	37.3					
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	WEVTV	1-1	0.05	707.50	23095	1.0	24.70	24.00	25	0	Back	0	0.129	1.175	0.178	0.047		37.4				
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	WEVTV	1-1	-0.01	707.50	23095	0.0	25.70	24.49	0	0	Back	0	0.107	1.321	0.141	0.035		37.7				
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	WEVTV	1-1	0.05	707.50	23095	1.0	24.70	24.00	25	0	Back	0	0.096	1.175	0.115	0.029		37.6				
ANSI/JEES C95.1 1992 - SAFETY LIMIT																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams										
Uncontrolled Exposure/General Population																											

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 [W/kg]	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 [SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	LTE Band 13	10	QPSK	Aluminum	Sport	JK77F	1:1	0.03	782.00	23230	0.0	25.70	24.58	1	0	Front	10	0.002	1.294	0.003	0.002		51.1	
Head	LTE Band 13	10	QPSK	Aluminum	Sport	JK77F	1:1	0.08	782.00	23230	1.0	24.70	23.92	25	12	Front	10	0.002	1.197	0.002	0.001		50.5	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	JK77F	1:1	0.03	782.00	23230	0.0	25.70	24.58	1	0	Front	10	0.003	1.294	0.004	0.003		49.3	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	JK77F	1:1	0.14	782.00	23230	1.0	24.70	23.92	25	12	Front	10	0.003	1.197	0.004	0.003		48.7	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	JK77F	1:1	0.05	782.00	23230	0.0	25.70	24.58	1	0	Front	10	0.000	1.294	0.000	0.000		64.1	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	JK77F	1:1	0.06	782.00	23230	1.0	24.70	23.92	25	12	Front	10	0.000	1.197	0.000	0.000		63.5	
Head	LTE Band 13	10	QPSK	Titanium	Sport	PM94Y	1:1	0.03	782.00	23230	0.0	25.70	24.58	1	0	Front	10	0.003	1.294	0.003	0.002		51.1	45.7
Head	LTE Band 13	10	QPSK	Titanium	Sport	PM94Y	1:1	0.09	782.00	23230	1.0	24.70	23.92	25	12	Front	10	0.003	1.197	0.001	0.001		53.5	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	PM94Y	1:1	0.01	782.00	23230	0.0	25.70	24.58	1	0	Front	10	0.007	1.294	0.009	0.006	A5	45.7	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	PM94Y	1:1	0.08	782.00	23230	1.0	24.70	23.92	25	12	Front	10	0.003	1.197	0.001	0.001		53.5	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	PM94Y	1:1	0.02	782.00	23230	0.0	25.70	24.58	1	0	Front	10	0.003	1.294	0.001	0.001		54.1	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	PM94Y	1:1	0.01	782.00	23230	1.0	24.70	23.92	25	12	Front	10	0.003	1.197	0.004	0.003		48.7	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Spatial Peak					Head	
Uncontrolled Exposure/General Population																		Spatial Peak					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 [SAR]	Plot #	Plim1 [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	CC79M	1-1	-0.14	782.00	23230	0.0	25.70	24.58	1	0	Back	0	0.082	1.294	0.106	0.027		39.0	
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	CC79M	1-1	-0.03	782.00	23230	1.0	24.70	23.92	25	12	Back	0	0.064	1.197	0.077	0.019		39.4	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	CC79M	1-1	-0.03	782.00	23230	0.0	25.70	24.58	1	0	Back	0	0.176	1.294	0.228	0.026	M6	35.6	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	CC79M	1-1	-0.07	782.00	23230	1.0	24.70	23.92	25	12	Back	0	0.158	1.197	0.189	0.047		35.4	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	CC79M	1-1	-0.11	782.00	23230	0.0	25.70	24.58	1	0	Back	0	0.104	1.294	0.135	0.034		37.9	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	CC79M	1-1	0.08	782.00	23230	1.0	24.70	23.92	25	12	Back	0	0.093	1.197	0.111	0.028		37.7	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	OMQCP	1-1	-0.01	782.00	23230	0.0	25.70	24.58	1	0	Back	0	0.063	1.067	0.087	0.021		40.3	35.4
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	OMQCP	1-1	0.00	782.00	23230	1.0	24.70	23.92	25	12	Back	0	0.055	1.197	0.065	0.017		40.0	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	OMQCP	1-1	-0.05	782.00	23230	0.0	25.70	24.58	1	0	Back	0	0.139	1.294	0.180	0.045		36.7	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	OMQCP	1-1	-0.01	782.00	23230	1.0	24.70	23.92	25	12	Back	0	0.082	1.197	0.098	0.025		38.3	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	OMQCP	1-1	-0.03	782.00	23230	0.0	25.70	24.58	1	0	Back	0	0.142	1.294	0.050	0.026		36.2	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	OMQCP	1-1	0.02	782.00	23230	1.0	24.70	23.92	25	12	Back	0	0.113	1.197	0.135	0.034		36.9	
ANS/IEEE C95.1.1992 - SAFETY LIMIT																		Spatial Peak					Extremity	
Uncontrolled Exposure/General Population																		Spatial Peak					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 [W/kg]	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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	LTE Band 14	10	QPSK	Aluminum	Sport	JK77F	1:1	-0.01	793.00	23330	0.0	25.70	24.45	1	0	Front	10	0.003	1.334	0.004	0.003		49.2	
Head	LTE Band 14	10	QPSK	Aluminum	Sport	JK77F	1:1	-0.05	793.00	23330	1.0	24.70	23.97	25	0	Front	10	0.003	1.183	0.001	0.001		53.5	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	JK77F	1:1	-0.04	793.00	23330	0.0	25.70	24.45	1	0	Front	10	0.003	1.334	0.001	0.001		54.0	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	JK77F	1:1	-0.05	793.00	23330	1.0	24.70	23.97	25	0	Front	10	0.003	1.183	0.001	0.001		53.5	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	JK77F	1:1	-0.06	793.00	23330	0.0	25.70	24.45	1	0	Front	10	0.001	1.334	0.001	0.001		54.0	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	JK77F	1:1	-0.08	793.00	23330	1.0	24.70	23.97	25	0	Front	10	0.002	1.183	0.002	0.001		50.5	
Head	LTE Band 14	10	QPSK	Titanium	Sport	GC7HH	1:1	-0.02	793.00	23330	0.0	25.70	24.45	1	0	Front	10	0.003	1.334	0.001	0.001		48.0	
Head	LTE Band 14	10	QPSK	Titanium	Sport	GC7HH	1:1	-0.11	793.00	23330	1.0	24.70	23.97	25	0	Front	10	0.002	1.183	0.002	0.001		50.5	
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	GC7HH	1:1	-0.01	793.00	23330	0.0	25.70	24.45	1	0	Front	10	0.002	1.334	0.003	0.002		51.0	
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	GC7HH	1:1	-0.05	793.00	23330	1.0	24.70	23.97	25	0	Front	10	0.001	1.183	0.001	0.001		53.5	
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	GC7HH	1:1	-0.04	793.00	23330	0.0	25.70	24.45	1	0	Front	10	0.003	1.334	0.004	0.003		49.2	
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	GC7HH	1:1	-0.04	793.00	23330	1.0	24.70	23.97	25	0	Front	10	0.004	1.183	0.005	0.003	A7	47.5	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Spatial Peak					Head	
Averaged Exposure / General Population																		1.6 W/kg (mW/g)					averaged over 1 gram	

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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 #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	CC79M	1:1	-0.15	793.00	23330	0.0	25.70	24.45	1	0	Back	0	0.072	1.334	0.096	0.024		39.4	
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	CC79M	1:1	0.00	793.00	23330	1.0	24.70	23.97	25	0	Back	0	0.050	1.183	0.059	0.015		40.5	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	CC79M	1:1	-0.11	793.00	23330	0.0	25.70	24.45	1	0	Back	0	0.182	1.334	0.243	0.061	A8	35.4	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	CC79M	1:1	0.05	793.00	23330	1.0	24.70	23.97	25	0	Back	0	0.116	1.183	0.137	0.034		36.8	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	CC79M	1:1	0.02	793.00	23330	0.0	25.70	24.45	1	0	Back	0	0.142	1.334	0.189	0.047		36.4	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	CC79M	1:1	-0.01	793.00	23330	1.0	24.70	23.97	25	0	Back	0	0.119	1.183	0.141	0.035		36.7	
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	W6V7Y	1:1	-0.18	793.00	23330	0.0	25.70	24.45	1	0	Back	0	0.058	1.334	0.077	0.019		40.3	
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	W6V7Y	1:1	0.05	793.00	23330	1.0	24.70	23.97	25	0	Back	0	0.091	1.183	0.060	0.015		40.4	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	W6V7Y	1:1	-0.08	793.00	23330	0.0	25.70	24.45	1	0	Back	0	0.134	1.334	0.179	0.045		36.7	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	W6V7Y	1:1	-0.02	793.00	23330	1.0	24.70	23.97	25	0	Back	0	0.120	1.183	0.142	0.036		36.7	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	W6V7Y	1:1	-0.01	793.00	23330	0.0	25.70	24.45	1	0	Back	0	0.138	1.334	0.184	0.046		36.6	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	W6V7Y	1:1	0.05	793.00	23330	1.0	24.70	23.97	25	0	Back	0	0.132	1.183	0.162	0.041		36.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity								
Uncontrolled Exposure/General Population																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 (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 26	10	QPSK	Aluminum	Sport	G0GCC	1:1	0.01	831.50	26865	0.0	25.70	24.49	1	25	Front	10	0.002	1.321	0.001	0.002	A9	51.0	50.5
Head	LTE Band 26	10	QPSK	Aluminum	Sport	G0GCC	1:1	0.09	831.50	26865	1.0	24.70	23.96	25	0	Front	10	0.002	1.186	0.002	0.001		50.5	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	G0GCC	1:1	0.01	831.50	26865	0.0	25.70	24.49	1	25	Front	10	0.001	1.321	0.001	0.001		54.0	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	G0GCC	1:1	0.01	831.50	26865	1.0	24.70	23.96	25	0	Front	10	0.000	1.186	0.000	0.000		63.5	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	G0GCC	1:1	0.06	831.50	26865	0.0	25.70	24.49	1	25	Front	10	0.000	1.321	0.000	0.000		64.0	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	G0GCC	1:1	0.06	831.50	26865	1.0	24.70	23.96	25	0	Front	10	0.000	1.186	0.000	0.000		63.5	
Head	LTE Band 26	10	QPSK	Titanium	Sport	X6WD2	1:1	0.08	831.50	26865	0.0	25.70	24.49	1	25	Front	10	0.002	1.321	0.003	0.002		51.0	
Head	LTE Band 26	10	QPSK	Titanium	Sport	X6WD2	1:1	0.08	831.50	26865	1.0	24.70	23.96	25	0	Front	10	0.002	1.186	0.002	0.001		50.5	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	X6WD2	1:1	0.01	831.50	26865	0.0	25.70	24.49	1	25	Front	10	0.000	1.321	0.001	0.001		54.0	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	X6WD2	1:1	0.01	831.50	26865	1.0	24.70	23.96	25	0	Front	10	0.000	1.186	0.000	0.000		63.5	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	X6WD2	1:1	0.11	831.50	26865	0.0	25.70	24.49	1	25	Front	10	0.001	1.321	0.001	0.001		54.0	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	X6WD2	1:1	0.03	831.50	26865	1.0	24.70	23.96	25	0	Front	10	0.001	1.186	0.001	0.001		53.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Spatial Peak								
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)								
																Head								
																averaged over 1 gram								

10.10 LTE Band 26 (Cell) Standalone Extremity SAR

Table 10-10

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	ZQV6K	1:1	-0.21	831.50	26865	0.0	25.70	24.49	1	25	Back	0	0.083	1.321	0.110	0.028		38.8	
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	ZQV6K	1:1	-0.16	831.50	26865	1.0	24.70	23.96	25	0	Back	0	0.071	1.186	0.084	0.021		39.0	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	ZQV6K	1:1	-0.02	831.50	26865	0.0	25.70	24.49	1	25	Back	0	0.135	1.321	0.178	0.045		36.7	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	ZQV6K	1:1	0.08	831.50	26865	1.0	24.70	23.96	25	0	Back	0	0.082	1.186	0.097	0.024		38.3	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	ZQV6K	1:1	-0.07	831.50	26865	0.0	25.70	24.49	1	25	Back	0	0.168	1.321	0.222	0.056		35.7	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	ZQV6K	1:1	-0.05	831.50	26865	1.0	24.70	23.96	25	0	Back	0	0.127	1.186	0.151	0.038		36.4	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	X6WD2	1:1	0.03	831.50	26865	0.0	25.70	24.49	1	25	Back	0	0.059	1.321	0.078	0.020		40.3	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	X6WD2	1:1	0.06	831.50	26865	1.0	24.70	23.96	25	0	Back	0	0.052	1.186	0.062	0.016		40.3	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	X6WD2	1:1	0.04	831.50	26865	0.0	25.70	24.49	1	25	Back	0	0.114	1.321	0.155	0.038		37.4	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	X6WD2	1:1	-0.16	831.50	26865	1.0	24.70	23.96	25	0	Back	0	0.077	1.186	0.091	0.023		38.6	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	X6WD2	1:1	0.03	831.50	26865	0.0	25.70	24.49	1	25	Back	0	0.189	1.321	0.250	0.063	A10	35.2	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	X6WD2	1:1	-0.07	831.50	26865	1.0	24.70	23.96	25	0	Back	0	0.181	1.186	0.215	0.054		34.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity								
Uncontrolled Exposure/General Population																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 #	Plimit [dBm]	Overall Plimit [dBm]		
Head	LTE Band 5	10	QPSK	Aluminum	Sport	9FN9J	1:1	0.02	836.50	20525	0.0	25.70	24.53	1	0	Front	10	0.002	1.309	0.003	0.002	A11	51.1	51.1		
Head	LTE Band 5	10	QPSK	Aluminum	Sport	9FN9J	1:1	0.03	836.50	20525	1.0	24.70	23.99	25	0	Front	10	0.001	1.178	0.001	0.001		53.5			
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	9FN9J	1:1	0.04	836.50	20525	0.0	25.70	24.53	1	0	Front	10	0.000	1.309	0.000	0.000		64.1			
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	9FN9J	1:1	0.05	836.50	20525	1.0	24.70	23.99	25	0	Front	10	0.000	1.178	0.000	0.000		63.5			
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	9FN9J	1:1	0.01	836.50	20525	0.0	25.70	24.53	1	0	Front	10	0.000	1.309	0.000	0.000		64.1			
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	9FN9J	1:1	0.03	836.50	20525	1.0	24.70	23.99	25	0	Front	10	0.000	1.178	0.000	0.000		63.5			
Head	LTE Band 5	10	QPSK	Titanium	Sport	X6W02	1:1	0.03	836.50	20525	0.0	25.70	24.53	1	0	Front	10	0.002	1.309	0.001	0.001		54.1			
Head	LTE Band 5	10	QPSK	Titanium	Sport	X6W02	1:1	0.04	836.50	20525	1.0	24.70	23.99	25	0	Front	10	0.001	1.178	0.001	0.001		53.5			
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	X6W02	1:1	0.09	836.50	20525	0.0	25.70	24.53	1	0	Front	10	0.001	1.309	0.001	0.001		54.1			
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	X6W02	1:1	0.03	836.50	20525	1.0	24.70	23.99	25	0	Front	10	0.000	1.178	0.001	0.001		53.5			
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	X6W02	1:1	0.06	836.50	20525	0.0	25.70	24.53	1	0	Front	10	0.002	1.309	0.001	0.001		54.1			
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	X6W02	1:1	0.05	836.50	20525	1.0	24.70	23.99	25	0	Front	10	0.000	1.178	0.000	0.000		63.5			
ANS/IEEE C95.1.1992 - SAFETY LIMIT																			Spatial Peak				Head			
Uncontrolled Exposure/General Population																			1.6 W/kg (mW/g)				averaged over 1 gram			

10.12 LTE Band 5 (Cell) Standalone Extremity SAR

Table 10-12

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	JK77F	1:1	0.08	836.50	20525	0.0	25.70	24.53	1	0	Back	0	0.077	1.269	0.101	0.025		39.2	
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	JK77F	1:1	-0.50	836.50	20525	1.0	24.70	23.99	25	0	Back	0	0.064	1.178	0.075	0.019		39.4	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	JK77F	1:1	0.09	836.50	20525	0.0	25.70	24.53	1	0	Back	0	0.165	1.309	0.216	0.054		35.9	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	JK77F	1:1	-0.11	836.50	20525	1.0	24.70	23.99	25	0	Back	0	0.156	1.178	0.184	0.046		35.6	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	JK77F	1:1	0.20	836.50	20525	0.0	25.70	24.53	1	0	Back	0	0.141	1.309	0.187	0.047		35.5	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	JK77F	1:1	-0.03	836.50	20525	1.0	24.70	23.99	25	0	Back	0	0.136	1.178	0.160	0.040		36.2	
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	70XTQ	1:1	0.04	836.50	20525	0.0	25.70	24.53	1	0	Back	0	0.064	1.309	0.084	0.021		40.0	
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	70XTQ	1:1	-0.19	836.50	20525	1.0	24.70	23.99	25	0	Back	0	0.056	1.178	0.066	0.017		40.0	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	70XTQ	1:1	-0.13	836.50	20525	0.0	25.70	24.53	1	0	Back	0	0.086	1.309	0.113	0.028		39.7	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.12	836.50	20525	1.0	24.70	23.99	25	0	Back	0	0.079	1.178	0.093	0.023		38.5	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	70XTQ	1:1	-0.08	836.50	20525	0.0	25.70	24.53	1	0	Back	0	0.178	1.309	0.233	0.058	A12	35.5	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	70XTQ	1:1	0.03	836.50	20525	1.0	24.70	23.99	25	0	Back	0	0.155	1.178	0.183	0.046		35.6	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Spatial Peak		Extremity		4.0 W/kg (mW/g)		averaged over 10 grams		
Uncontrolled Exposure/General Population																								

10.13 LTE Band 66 (AWS) Standalone Head SAR

Table 10-13

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 66	20	QPSK	Aluminum	Sport	100NK	1:1	0.05	1720.00	132072	0.0	25.20	24.24	1	50	Front	10	0.085	1.247	0.106	0.066		34.5	
Head	LTE Band 66	20	QPSK	Aluminum	Sport	100NK	1:1	0.12	1720.00	132072	1.0	24.20	23.74	50	25	Front	10	0.082	1.112	0.091	0.057		34.1	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.00	1720.00	132072	0.0	25.20	24.24	1	50	Front	10	0.141	1.247	0.176	0.110		32.3	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	100NK	1:1	-0.03	1720.00	132072	1.0	24.20	23.74	50	25	Front	10	0.132	1.112	0.147	0.092		32.1	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	100NK	1:1	-0.04	1720.00	132072	0.0	25.20	24.24	1	50	Front	10	0.116	1.247	0.145	0.091		31.1	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	100NK	1:1	-0.02	1720.00	132072	1.0	24.20	23.74	50	25	Front	10	0.112	1.112	0.125	0.078		32.8	
Head	LTE Band 66	20	QPSK	Titanium	Sport	9PFOC	1:1	0.01	1720.00	132072	0.0	25.20	24.24	1	50	Front	10	0.083	1.247	0.104	0.065		34.6	
Head	LTE Band 66	20	QPSK	Titanium	Sport	9PFOC	1:1	-0.08	1720.00	132072	1.0	24.20	23.74	50	25	Front	10	0.080	1.112	0.089	0.056		34.2	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	9PFOC	1:1	-0.06	1720.00	132072	0.0	25.20	24.24	1	50	Front	10	0.124	1.247	0.155	0.097		32.8	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	9PFOC	1:1	-0.02	1720.00	132072	1.0	24.20	23.74	50	25	Front	10	0.121	1.112	0.135	0.084		32.5	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	9PFOC	1:1	0.10	1720.00	132072	0.0	25.20	24.24	1	50	Front	10	0.173	1.247	0.216	0.135	A13	31.4	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	9PFOC	1:1	0.00	1720.00	132072	1.0	24.20	23.74	50	25	Front	10	0.127	1.112	0.152	0.095		31.9	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Spatial Peak		Head		1.6 W/kg (mW/g)		averaged over 1 gram		
Uncontrolled Exposure/General Population																								

10.14 LTE Band 66 (AWS) Standalone Extremity SAR

Table 10-14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	0GVWQ	1:1	0.11	1720.00	132072	0.0	25.20	24.24	1	50	Back	0	0.041	1.247	0.054	0.014		41.4	
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	0GVWQ	1:1	0.01	1720.00	132072	1.0	24.20	23.74	50	25	Back	0	0.042	1.112	0.047	0.012		41.0	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	0GVWQ	1:1	0.06	1720.00	132072	0.0	25.20	24.24	1	50	Back	0	0.051	1.247	0.064	0.016		40.7	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	0GVWQ	1:1	0.07	1720.00	132072	1.0	24.20	23.74	50	25	Back	0	0.045	1.112	0.050	0.013		40.7	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	0GVWQ	1:1	-0.01	1720.00	132072	0.0	25.20	24.24	1	50	Back	0	0.026	1.247	0.035	0.009		41.3	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	0GVWQ	1:1	0.10	1720.00	132072	1.0	24.20	23.74	50	25	Back	0	0.026	1.112	0.029	0.007		43.1	
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	70XTQ	1:1	0.08	1720.00	132072	0.0	25.20	24.24	1	50	Back	0	0.043	1.247	0.054	0.014		41.4	
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	70XTQ	1:1	0.11	1720.00	132072	1.0	24.20	23.74	50	25	Back	0	0.041	1.112	0.046	0.012		41.1	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	-0.01	1720.00	132072	0.0	25.20	24.24	1	50	Back	0	0.079	1.247	0.099	0.025	A14	38.8	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.05	1720.00	132072	1.0	24.20	23.74	50	25	Back	0	0.074	1.112	0.082	0.021		38.6	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	70XTQ	1:1	0.11	1720.00	132072	0.0	25.20	24.24	1	50	Back	0	0.041	1.247	0.053	0.013		41.6	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	70XTQ	1:1	-0.01	1720.00	132072	1.0	24.20	23.74	50	25	Back	0	0.039	1.112	0.041	0.011		41.3	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Spatial Peak		Extremity		4.0 W/kg (mW/g)		averaged over 10 grams		
Uncontrolled Exposure/General Population																								

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 [W/kg]	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 #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 25	20	QPSK	Aluminum	Sport	W7XFI	1:1	-0.01	1860.00	26140	0.0	25.20	24.25	1	50	Front	10	0.127	1.245	0.158	0.099		32.8		
Head	LTE Band 25	20	QPSK	Aluminum	Sport	W7XFI	1:1	-0.01	1860.00	26140	1.0	24.20	23.81	50	25	Front	10	0.115	1.094	0.126	0.079		32.7		
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.03	1860.00	26140	0.0	25.20	24.25	1	50	Front	10	0.224	1.245	0.279	0.174		30.3		
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.06	1860.00	26140	1.0	24.20	23.81	50	25	Front	10	0.202	1.094	0.221	0.138		30.3		
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	W7XFI	1:1	-0.01	1860.00	26140	0.0	25.20	24.25	1	50	Front	10	0.165	1.245	0.205	0.128		31.6		
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	W7XFI	1:1	0.01	1860.00	26140	1.0	24.20	23.81	50	25	Front	10	0.148	1.094	0.162	0.101		31.6		
Head	LTE Band 25	20	QPSK	Titanium	Sport	J2VKG	1:1	0.03	1860.00	26140	0.0	25.20	24.25	1	50	Front	10	0.133	1.245	0.166	0.104		32.6		
Head	LTE Band 25	20	QPSK	Titanium	Sport	J2VKG	1:1	0.06	1860.00	26140	1.0	24.20	23.81	50	25	Front	10	0.118	1.094	0.129	0.081		32.6		
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	J2VKG	1:1	0.03	1860.00	26140	0.0	25.20	24.25	1	50	Front	10	0.260	1.245	0.311	0.194	A15	29.8		
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	J2VKG	1:1	0.01	1860.00	26140	1.0	24.20	23.81	50	25	Front	10	0.224	1.094	0.245	0.153		29.8		
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	J2VKG	1:1	-0.07	1860.00	26140	0.0	25.20	24.25	1	50	Front	10	0.196	1.245	0.241	0.153		30.9		
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	J2VKG	1:1	0.02	1860.00	26140	1.0	24.20	23.81	50	25	Front	10	0.175	1.094	0.191	0.119		30.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Spatial Peak		Head					
Unlabeled Exposure / General Population																		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 #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	W7XFI	1:1	-0.12	1860.00	26140	0.0	25.20	24.25	1	50	Back	0	0.078	1.245	0.097	0.024			36.5
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	W7XFI	1:1	-0.06	1860.00	26140	1.0	24.20	23.81	50	25	Back	0	0.071	1.094	0.078	0.020			36.5
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.02	1860.00	26140	0.0	25.20	24.25	1	50	Back	0	0.070	1.245	0.087	0.022			36.5
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.06	1860.00	26140	1.0	24.20	23.81	50	25	Back	0	0.063	1.094	0.069	0.017			36.5
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	W7XFI	1:1	0.03	1860.00	26140	0.0	25.20	24.25	1	50	Back	0	0.115	1.245	0.141	0.036			36.5
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	W7XFI	1:1	-0.02	1860.00	26140	1.0	24.20	23.81	50	25	Back	0	0.103	1.094	0.113	0.028			36.5
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	JZVKG	1:1	0.08	1860.00	26140	0.0	25.20	24.25	1	50	Back	0	0.076	1.245	0.095	0.024			36.5
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	JZVKG	1:1	-0.07	1860.00	26140	1.0	24.20	23.81	50	25	Back	0	0.065	1.094	0.071	0.018			36.5
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	JZVKG	1:1	0.03	1860.00	26140	0.0	25.20	24.25	1	50	Back	0	0.087	1.245	0.108	0.027			36.5
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	JZVKG	1:1	0.03	1860.00	26140	1.0	24.20	23.81	50	25	Back	0	0.078	1.094	0.085	0.021			36.5
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Links	JZVKG	1:1	-0.15	1860.00	26140	0.0	25.20	24.25	1	50	Back	0	0.133	1.245	0.166	0.042	A16		36.5
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Links	JZVKG	1:1	-0.08	1860.00	26140	1.0	24.20	23.81	50	25	Back	0	0.122	1.094	0.133	0.033			36.5
ANSI/IEEE C63.1.1992 - 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 (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	0.07	2510.00	20850	0.0	24.70	23.59	1	99	Front	10	0.616	1.291	0.795	0.497			24.7
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	0.09	2535.00	21100	0.0	24.70	23.49	1	50	Front	10	0.596	1.321	0.787	0.492			24.8
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	0.01	2560.00	21350	0.0	24.70	23.71	1	50	Front	10	0.819	1.256	1.027	0.642	A17		24.3
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	0.04	2510.00	20850	0.5	24.20	23.00	50	50	Front	10	0.595	1.318	0.784	0.490			24.3
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	-0.04	2535.00	21100	0.5	24.20	23.14	50	25	Front	10	0.961	1.276	0.716	0.448			24.7
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	0.01	2560.00	21350	0.5	24.20	23.36	50	25	Front	10	0.786	1.242	0.976	0.610			23.3
Head	LTE Band 7	20	QPSK	Aluminum	Sport	100NK	1:1	-0.02	2560.00	21350	0.5	24.20	23.21	100	0	Front	10	0.728	1.256	0.914	0.571			23.6
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	100NK	1:1	-0.01	2560.00	21350	0.0	24.70	23.71	1	50	Front	10	0.515	1.256	0.651	0.408			25.6
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.06	2560.00	21350	0.5	24.20	23.26	50	25	Front	10	0.481	1.242	0.597	0.373			25.5
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.04	2560.00	21350	0.0	24.70	23.71	1	50	Front	10	0.477	1.256	0.599	0.374			26.0
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.14	2560.00	21350	0.5	24.20	23.26	50	25	Front	10	0.445	1.242	0.553	0.346			25.8
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	0.06	2510.00	20850	0.0	24.70	23.59	1	99	Front	10	0.627	1.291	0.809	0.505			24.7
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	0.11	2535.00	21100	0.0	24.70	23.49	1	50	Front	10	0.665	1.321	0.878	0.549			24.3
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	0.06	2560.00	21350	0.0	24.70	23.71	1	50	Front	10	0.720	1.256	0.904	0.565			24.2
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	0.02	2510.00	20850	0.5	24.20	23.00	50	50	Front	10	0.565	1.318	0.745	0.466			24.5
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	-0.06	2535.00	21100	0.5	24.20	23.14	50	25	Front	10	0.985	1.276	0.746	0.466			24.5
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	0.02	2560.00	21350	0.5	24.20	23.36	50	25	Front	10	0.703	1.242	0.873	0.546			23.8
Head	LTE Band 7	20	QPSK	Titanium	Sport	PM4AY	1:1	0.06	2560.00	21350	0.5	24.20	23.21	100	0	Front	10	0.686	1.256	0.862	0.539			23.9
Head	LTE Band 7	20	QPSK	Titanium	Metal Loop	PM4AY	1:1	0.01	2560.00	21350	0.0	24.70	23.71	1	50	Front	10	0.600	1.256	0.754	0.471			25.0
Head	LTE Band 7	20	QPSK	Titanium	Metal Loop	PM4AY	1:1	0.08	2560.00	21350	0.5	24.20	23.26	50	25	Front	10	0.493	1.242	0.612	0.383			25.4
Head	LTE Band 7	20	QPSK	Titanium	Metal Links	PM4AY	1:1	0.00	2560.00	21350	0.0	24.70	23.71	1	50	Front	10	0.540	1.256	0.678	0.424			25.4
Head	LTE Band 7	20	QPSK	Titanium	Metal Links	PM4AY	1:1	-0.04	2560.00	21350	0.5	24.20	23.26	50	25	Front	10	0.440	1.242	0.546	0.341			25.9
ANSI/IEEE C63.1.1992 - 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 (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	97DAK	1:1	0.05	2560.00	21350	0.0	25.20	24.29	1	50	Back	0	0.121	1.233	0.149	0.037			37.0
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	97DAK	1:1	-0.03	2560.00	21350	1.0	24.20	23.81	50	0	Back	0	0.106	1.094	0.116	0.029			37.1
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	97DAK	1:1	0.08	2560.00	21350	0.0	25.20	24.29	1	50	Back	0	0.163	1.233	0.201	0.050			35.7
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	97DAK	1:1	0.00	2560.00	21350	1.0	24.20	23.81	50	0	Back	0	0.139	1.094	0.151	0.038			35.9
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	97DAK	1:1	0.00	2560.00	21350	0.0	25.20	24.29	1	50	Back	0	0.144	1.233	0.178	0.045			36.2
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	97DAK	1:1	0.05	2560.00	21350	1.0	24.20	23.81	50	0	Back	0	0.118	1.094	0.129	0.032			36.6
Extremity	LTE Band 7	20	QPSK	Titanium	Sport	9PQC	1:1	0.19	2560.00	21350	0.0	25.20	24.29	1	50	Back	0	0.161	1.233	0.199	0.050			35.7
Extremity	LTE Band 7	20	QPSK	Titanium	Sport	9PQC	1:1	0.08	2560.00	21350	1.0	24.20	23.81	50	0	Back	0	0.146	1.094	0.160	0.040			35.7
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Loop	9PQC	1:1	0.06	2560.00	21350	0.0	25.20	24.29	1	50	Back	0	0.198	1.233	0.244	0.061	A18		34.8
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Loop	9PQC	1:1	-0.06	2560.00	21350	1.0	24.20	23.81	50	0	Back	0	0.168	1.094	0.184	0.046			35.1
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Links	9PQC	1:1	0.07	2560.00	21350	0.0	25.20	24.29	1	50	Back	0	0.188	1.233	0.232	0.058			35.1
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Links	9PQC	1:1	0.06	2560.00	21350	1.0	24.20	23.81	50	0	Back	0	0.174	1.094	0.190	0.048			34.9
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																	Extremity							
Spatial Peak																	4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population																	averaged over 10 grams							

FCC ID: BCG-A3335

RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Watch

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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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.01	2596.00	39750	0.0	25.20	24.09	1	50	Front	10	0.509	1.309	0.656	0.410		24.6	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.03	2549.50	40185	0.0	25.20	24.06	1	99	Front	10	0.514	1.300	0.668	0.418		24.5	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.02	2593.00	40620	0.0	25.20	24.05	1	50	Front	10	0.620	1.303	0.808	0.505	A19	23.7	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.07	2636.50	41055	0.0	25.20	23.91	1	50	Front	10	0.495	1.300	0.666	0.416		24.5	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	-0.03	2680.00	41490	0.0	25.20	24.02	1	50	Front	10	0.531	1.312	0.697	0.436		24.3	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.02	2506.00	39750	1.0	24.20	23.58	50	25	Front	10	0.488	1.153	0.563	0.352		24.3	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.01	2549.50	40185	1.0	24.20	23.62	50	50	Front	10	0.422	1.143	0.482	0.301		24.9	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	-0.03	2591.00	40620	1.0	24.20	23.60	50	50	Front	10	0.606	1.148	0.696	0.435		23.1	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.00	2636.50	41055	1.0	24.20	23.62	50	25	Front	10	0.486	1.197	0.585	0.366		24.1	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.01	2680.00	41490	1.0	24.20	23.54	50	25	Front	10	0.464	1.164	0.540	0.338		24.4	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	97D4K	1:1.58	0.04	2549.50	40185	1.0	24.20	23.61	100	0	Front	10	0.511	1.146	0.586	0.366		24.1	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	97D4K	1:1.58	0.03	2549.50	40185	0.0	25.20	24.06	1	99	Front	10	0.442	1.300	0.575	0.359		25.2	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	97D4K	1:1.58	0.07	2549.50	40185	1.0	24.20	23.62	50	50	Front	10	0.372	1.143	0.425	0.266		25.5	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	97D4K	1:1.58	0.12	2549.50	40185	0.0	25.20	24.06	1	99	Front	10	0.339	1.300	0.441	0.276		26.3	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	97D4K	1:1.58	0.07	2549.50	40185	1.0	24.20	23.62	50	50	Front	10	0.295	1.143	0.337	0.211		26.5	
Head	LTE Band 41	20	QPSK	Titanium	Sport	Q9RPH	1:1.58	0.05	2556.00	39750	0.0	25.20	24.02	1	50	Front	10	0.585	1.309	0.766	0.479		23.9	
Head	LTE Band 41	20	QPSK	Titanium	Sport	Q9RPH	1:1.58	0.03	2549.50	40185	0.0	25.20	24.06	1	99	Front	10	0.608	1.300	0.750	0.454		23.8	
Head	LTE Band 41	20	QPSK	Titanium	Sport	Q9RPH	1:1.58	0.04	2593.00	40620	0.0	25.20	24.05	1	50	Front	10	0.609	1.303	0.734	0.456		23.8	
Head	LTE Band 41	20	QPSK	Titanium	Sport	Q9RPH	1:1.58	-0.02	2636.50	41055	0.0	25.20	23.91	1	50	Front	10	0.550	1.346	0.740	0.463		24.1	
Head	LTE Band 41	20	QPSK	Titanium	Sport	Q9RPH	1:1.58	0.01	2680.00	41490	1.0	24.20	24.02	1	50	Front	10	0.528	1.312	0.693	0.433		24.4	
Head	LTE Band 41	20	QPSK	Titanium	Sport	Q9RPH	1:1.58	0.04	2549.50	40185	1.0	24.20	23.62	50	50	Front	10	0.478	1.143	0.546	0.341		24.4	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	Q9RPH	1:1.58	0.08	2549.50	40185	0.0	25.20	24.06	1	99	Front	10	0.378	1.300	0.491	0.307		25.8	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	Q9RPH	1:1.58	0.06	2549.50	40185	1.0	24.20	23.62	50	50	Front	10	0.346	1.143	0.395	0.247		25.8	
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	Q9RPH	1:1.58	0.05	2549.50	40185	0.0	25.20	24.06	1	99	Front	10	0.390	1.300	0.507	0.317		25.7	
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	Q9RPH	1:1.58	0.02	2549.50	40185	1.0	24.20	23.62	50	50	Front	10	0.301	1.143	0.344	0.215		26.4	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT															Head									
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g) averaged over 1 gram									

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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	K4HQJ	1:1.58	-0.10	2549.50	40185	0.0	25.20	24.06	1	99	Back	0	0.049	1.300	0.064	0.016		38.7	
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	K4HQJ	1:1.58	-0.01	2549.50	40185	1.0	24.20	23.62	50	50	Back	0	0.044	1.143	0.050	0.013		38.7	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	K4HQJ	1:1.58	0.00	2549.50	40185	0.0	25.20	24.06	1	99	Back	0	0.087	1.300	0.111	0.028		36.2	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	K4HQJ	1:1.58	0.08	2549.50	40185	1.0	24.20	23.62	50	50	Back	0	0.080	1.143	0.091	0.023		36.1	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	K4HQJ	1:1.58	0.17	2549.50	40185	0.0	25.20	24.06	1	99	Back	0	0.075	1.300	0.098	0.025		36.8	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	K4HQJ	1:1.58	0.01	2549.50	40185	1.0	24.20	23.62	50	50	Back	0	0.069	1.143	0.079	0.020		36.8	
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	X6WD2	1:1.58	0.06	2549.50	40185	0.0	25.20	24.06	1	99	Back	0	0.147	1.300	0.151	0.048	A20	33.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	X6WD2	1:1.58	0.02	2549.50	40185	1.0	24.20	23.62	50	50	Back	0	0.134	1.143	0.153	0.038		33.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	X6WD2	1:1.58	-0.02	2549.50	40185	0.0	25.20	24.06	1	99	Back	0	0.118	1.300	0.153	0.038		34.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	X6WD2	1:1.58	0.04	2549.50	40185	1.0	24.20	23.62	50	50	Back	0	0.091	1.143	0.106	0.027		35.5	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Links	X6WD2	1:1.58	0.03	2549.50	40185	0.0	25.20	24.06	1	99	Back	0	0.118	1.300	0.153	0.038		34.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Links	X6WD2	1:1.58	0.08	2549.50	40185	1.0	24.20	23.62	50	50	Back	0	0.105	1.143	0.120	0.030		34.9	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT															Extremity									
Uncontrolled Exposure/General Population															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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n71	20	QPSK	Aluminum	Sport	031GN	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Front	10	0.002	1.227	0.002	0.001		51.3	
Head	NR Band n71	20	QPSK	Aluminum	Sport	031GN	1:1	0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Front	10	0.004	1.222	0.005	0.003		48.1	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	031GN	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Front	10	0.007	1.227	0.009	0.006		45.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	031GN	1:1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	50	28	Front	10	0.002	1.222	0.002	0.001		51.4	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	031GN	1:1	0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Front	10	0.009	1.227	0.006	0.004		47.4	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	031GN	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Front	10	0.008	1.222	0.010	0.006	A21	45.3	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	031GN	1:1	0.01	680.50	136300	CP-OFDM	1.5	24.20	23.23	1	1	Front	10	0.003	1.250	0.004	0.003		48.0	
Head	NR Band n71	20	QPSK	Titanium	Sport	KM0PL	1:1	0.09	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Front	10	0.004	1.227	0.002	0.001		51.3	
Head	NR Band n71	20	QPSK	Titanium	Sport	KM0PL	1:1	0.11	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Front	10	0.004	1.222	0.005	0.003		48.1	
Head	NR Band n71	20	QPSK	Titanium	Sport	KM0PL	1:1	0.01	680.50	136300	CP-OFDM	1.5	24.20	23.23	1	1	Front	10	0.004	1.250	0.005	0.003		46.7	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	KM0PL	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Front	10	0.001	1.227	0.001	0.001		54.4	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	KM0PL	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	50	28	Front	10	0.002	1.222	0.002	0.001		51.4	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	KM0PL	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Front	10	0.001	1.222	0.001	0.001		54.4	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	KM0PL	1:1	0.09	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Front	10	0.003	1.222	0.004	0.003		49.6	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head							
Uncontrolled Exposure/General Population																		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	MPE [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 #	Plimt [dBm]	Overall Plimt [dBm]
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	100NK	1:1	0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Back	0	0.040	1.227	0.049	0.012		42.3	
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	100NK	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Back	0	0.042	1.222	0.051	0.013		42.1	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	100NK	1:1	-0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Back	0	0.092	1.227	0.113	0.028		38.7	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.00	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	50	28	Back	0	0.122	1.222	0.149	0.037	A22	37.5	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.02	680.50	136300	CP-OFDM	1.5	24.20	23.23	1	1	Back	0	0.066	1.250	0.083	0.021		38.5	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	100NK	1:1	-0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Back	0	0.090	1.227	0.110	0.028		38.8	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Back	0	0.115	1.222	0.141	0.035		37.7	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	WVVTY	1:1	-0.13	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Back	0	0.097	1.227	0.070	0.018		40.8	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	WVVTY	1:1	0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Back	0	0.048	1.222	0.059	0.015		41.5	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	WVVTY	1:1	0.09	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Back	0	0.085	1.227	0.104	0.026		39.0	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	WVVTY	1:1	-0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Back	0	0.105	1.222	0.128	0.032		38.1	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	WVVTY	1:1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.81	1	1	Back	0	0.105	1.227	0.129	0.032		38.1	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	WVVTY	1:1	-0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.83	50	28	Back	0	0.083	1.222	0.101	0.025		39.1	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	WVVTY	1:1	0.06	680.50	136300	CP-OFDM	1.5	24.20	23.23	1	1	Back	0	0.054	1.250	0.068	0.017		39.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			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	MPE [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 #	Plimt [dBm]	Overall Plimt [dBm]
Head	NR Band n12	15	QPSK	Aluminum	Sport	46GND	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Front	10	0.002	1.239	0.002	0.001		51.3	
Head	NR Band n12	15	QPSK	Aluminum	Sport	46GND	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Front	10	0.000	1.250	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Sport	46GND	1:1	0.02	707.50	141500	CP-OFDM	1.5	24.20	23.11	1	1	Front	10	0.000	1.285	0.000	0.000		62.7	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	46GND	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Front	10	0.001	1.239	0.001	0.001		54.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	46GND	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Front	10	0.000	1.250	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	46GND	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Front	10	0.000	1.239	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	46GND	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Front	10	0.000	1.250	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Sport	PM4AY	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Front	10	0.003	1.239	0.004	0.003	A23	49.5	
Head	NR Band n12	15	QPSK	Titanium	Sport	PM4AY	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Front	10	0.000	1.250	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Sport	PM4AY	1:1	0.20	707.50	141500	CP-OFDM	1.5	24.20	23.11	1	1	Front	10	0.000	1.285	0.000	0.000		62.7	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	PM4AY	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Front	10	0.000	1.239	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	PM4AY	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Front	10	0.000	1.250	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	PM4AY	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Front	10	0.000	1.239	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	PM4AY	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Front	10	0.000	1.250	0.000	0.000		64.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			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	MPE [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 #	Plimt [dBm]	Overall Plimt [dBm]
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	W2PKC	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Back	0	0.065	1.239	0.081	0.020		40.2	
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	W2PKC	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Back	0	0.076	1.250	0.095	0.024		39.4	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	W2PKC	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Back	0	0.119	1.239	0.147	0.037		37.5	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	W2PKC	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Back	0	0.125	1.250	0.156	0.039		37.3	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	W2PKC	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Back	0	0.239	1.239	0.256	0.074	A24	34.5	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	W2PKC	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Back	0	0.135	1.250	0.169	0.042		36.9	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	W2PKC	1:1	-0.11	707.50	141500	CP-OFDM	1.5	24.20	23.11	1	1	Back	0	0.113	1.285	0.145	0.036		36.1	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	QBRPH	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Back	0	0.064	1.239	0.087	0.017		41.0	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	QBRPH	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Back	0	0.083	1.250	0.066	0.017		41.0	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	QBRPH	1:1	-0.11	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Back	0	0.098	1.239	0.121	0.030		38.4	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	QBRPH	1:1	0.11	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Back	0	0.093	1.250	0.116	0.029		38.6	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	QBRPH	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	1	77	Back	0	0.128	1.239	0.159	0.040		37.2	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	QBRPH	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.73	36	22	Back	0	0.111	1.250	0.139	0.035		37.8	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	QBRPH	1:1	0.05	707.50	141500	CP-OFDM	1.5	24.20	23.11	1	1	Back	0	0.087	1.285	0.086	0.022		38.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
4.0 W/kg (mW/g)																									
averaged over 10 grams																									

10.25 NR Band n14 Standalone Head SAR

Table 10-25

Exposure	Band / Mode
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Table 10-26

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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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n4	10	QPSK	Aluminum	Sport	CC79M	1:1	-0.19	793.00	158600	DFT+OFDM	0.0	25.70	24.60	1	50	Back	0	0.009	1.288	0.076	0.019		40.4	
Extremity	NR Band n4	10	QPSK	Aluminum	Sport	CC79M	1:1	-0.10	793.00	158600	DFT+OFDM	0.0	25.70	24.52	25	14	Back	0	0.009	1.312	0.077	0.019		40.3	
Extremity	NR Band n4	10	QPSK	Aluminum	Metal Loop	CC79M	1:1	-0.10	793.00	158600	DFT+OFDM	0.0	25.70	24.60	1	50	Back	0	0.006	1.288	0.137	0.034		37.9	
Extremity	NR Band n4	10	QPSK	Aluminum	Metal Links	CC79M	1:1	-0.05	793.00	158600	DFT+OFDM	0.0	25.70	24.12	25	14	Back	0	0.176	1.312	0.363	0.066		35.0	
Extremity	NR Band n4	10	QPSK	Aluminum	Metal Links	CC79M	1:1	-0.09	793.00	158600	DFT+OFDM	0.0	25.70	24.60	1	50	Back	0	0.202	1.288	0.260	0.065		35.1	
Extremity	NR Band n4	10	QPSK	Aluminum	Metal Links	CC79M	1:1	-0.08	793.00	158600	DFT+OFDM	0.0	25.70	24.52	25	14	Back	0	0.269	1.312	0.353	0.088		33.7	
Extremity	NR Band n4	10	QPSK	Aluminum	Metal Links	CC79M	1:1	-0.04	793.00	158600	CP-OFDM	1.5	24.20	23.17	1	1	Back	0	0.042	1.268	0.180	0.045		35.2	
Extremity	NR Band n4	10	QPSK	Titanium	Sport	CQR9H	1:1	-0.12	793.00	158600	DFT+OFDM	0.0	25.70	24.60	1	50	Back	0	0.066	1.288	0.072	0.018		40.6	
Extremity	NR Band n4	10	QPSK	Titanium	Sport	CQR9H	1:1	-0.12	793.00	158600	DFT+OFDM	0.0	25.70	24.52	25	14	Back	0	0.063	1.312	0.083	0.021		40.0	
Extremity	NR Band n4	10	QPSK	Titanium	Metal Loop	CQR9H	1:1	-0.01	793.00	158600	DFT+OFDM	0.0	25.70	24.60	1	50	Back	0	0.152	1.288	0.196	0.049		36.3	
Extremity	NR Band n4	10	QPSK	Titanium	Metal Loop	CQR9H	1:1	-0.01	793.00	158600	DFT+OFDM	0.0	25.70	24.52	25	14	Back	0	0.177	1.312	0.232	0.058		35.6	
Extremity	NR Band n4	10	QPSK	Titanium	Metal Links	CQR9H	1:1	-0.07	793.00	158600	DFT+OFDM	0.0	25.70	24.60	1	50	Back	0	0.204	1.288	0.363	0.066		35.0	
Extremity	NR Band n4	10	QPSK	Titanium	Metal Links	CQR9H	1:1	-0.02	793.00	158600	DFT+OFDM	0.0	25.70	24.52	25	14	Back	0	0.362	1.312	0.675	0.119	A26	32.4	
Extremity	NR Band n4	10	QPSK	Titanium	Metal Links	CQR9H	1:1	-0.06	793.00	158600	CP-OFDM	1.5	24.20	23.17	1	1	Back	0	0.108	1.268	0.137	0.034		36.3	
ANSI/IEEE C95.3-1992 - SAFETY LIMIT																				Extremity					
Spatial Peak																				4.0 W/kg (mW/10g)					
Uncontrolled Exposure/General Population																				averaged over 10 grams					

Table 1

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Windstart Number	Serial Number	Duty Cycle	Power DFB [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 #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n26	20	QPSK	Aluminum	Sport	100NK	1:1	0.05	831.50	166300	DFT+OFDM	0.0	25.70	24.67	1	1	Front	30	0.002	1.268	0.003	0.002	A27	51.2	
Head	NR Band n26	20	QPSK	Aluminum	Sport	100NK	1:1	0.07	831.50	166300	DFT+OFDM	0.0	25.70	24.65	50	28	Front	30	0.000	1.274	0.003	0.002	51.2		
Head	NR Band n26	20	QPSK	Aluminum	Sport	100NK	1:1	0.10	831.50	166300	CP-OFDM	1.5	24.20	23.07	1	1	Front	30	0.001	1.297	0.001	0.001	62.6		
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	XY2L	1:1	0.09	831.50	166300	DFT+OFDM	0.0	25.70	24.67	1	1	Front	30	0.000	1.268	0.003	0.002	64.2		
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	XY2L	1:1	0.04	831.50	166300	DFT+OFDM	0.0	25.70	24.65	50	28	Front	30	0.000	1.274	0.004	0.000	64.2		
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.08	831.50	166300	DFT+OFDM	0.0	25.70	24.67	1	1	Front	30	0.000	1.268	0.000	0.000	64.2		
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.01	831.50	166300	DFT+OFDM	0.0	25.70	24.65	50	28	Front	30	0.000	1.274	0.003	0.000	64.2		
Head	NR Band n26	20	QPSK	Titanium	Sport	XY2L	1:1	0.14	831.50	166300	DFT+OFDM	0.0	25.70	24.67	1	1	Front	30	0.000	1.268	0.003	0.002	51.2		
Head	NR Band n26	20	QPSK	Titanium	Sport	XY2L	1:1	0.01	831.50	166300	DFT+OFDM	0.0	25.70	24.65	50	28	Front	30	0.000	1.274	0.003	0.002	51.2		
Head	NR Band n26	20	QPSK	Titanium	Sport	XY2L	1:1	0.04	831.50	166300	CP-OFDM	1.5	24.20	23.07	1	1	Front	30	0.001	1.297	0.001	0.000	62.6		
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	XY2L	1:1	0.01	831.50	166300	DFT+OFDM	0.0	25.70	24.67	1	1	Front	30	0.000	1.268	0.001	0.001	54.2		51.2
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	XY2L	1:1	0.01	831.50	166300	DFT+OFDM	0.0	25.70	24.65	50	28	Front	30	0.000	1.274	0.001	0.001	54.2		
Head	NR Band n26	20	QPSK	Titanium	Metal Links	XY2L	1:1	0.06	831.50	166300	DFT+OFDM	0.0	25.70	24.67	1	1	Front	30	0.000	1.268	0.000	0.000	64.2		
Head	NR Band n26	20	QPSK	Titanium	Metal Links	XY2L	1:1	0.07	831.50	166300	DFT+OFDM	0.0	25.70	24.65	50	28	Front	30	0.000	1.274	0.000	0.000	64.2		
ANSI/IEEE C63.1-1992: SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Table 10-28

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Windstart Number	Serial Number	Duty Cycle	Power DFB [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 [dB]	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	W7NF1	1:1	0.02	831.50	166300	DF1+QDFM	0.0	25.70	24.67	1	1	Back	0	0.960	1.274	0.076	0.019		40.4	
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	W7NF1	1:1	0.07	831.50	166300	DF1+QDFM	0.0	25.70	24.65	50	28	Back	0	0.688	1.274	0.087	0.022		39.8	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	W7NF1	1:1	0.02	831.50	166300	DF1+QDFM	0.0	25.70	24.67	1	1	Back	0	1.304	1.268	0.165	0.041		37.0	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	W7NF1	1:1	0.16	831.50	166300	DF1+QDFM	0.0	25.70	24.65	50	28	Back	0	1.040	1.274	0.132	0.033		38.0	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	W7NF1	1:1	0.13	831.50	166300	DF1+QDFM	0.0	25.70	24.67	1	1	Back	0	0.960	1.274	0.076	0.019		36.4	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	W7NF1	1:1	0.14	831.50	166300	DF1+QDFM	0.0	25.70	24.65	50	28	Back	0	0.227	1.274	0.289	0.072		34.6	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	W7NF1	1:1	0.21	831.50	166300	CP-QDFM	1.5	24.20	23.07	1	1	Back	0	0.444	1.297	0.187	0.047		35.0	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	2YXHF1	1:1	0.02	831.50	166300	DF1+QDFM	0.0	25.70	24.67	1	1	Back	0	0.881	1.268	0.077	0.019		40.3	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	2YXHF1	1:1	0.13	831.50	166300	DF1+QDFM	0.0	25.70	24.65	50	28	Back	0	0.070	1.274	0.090	0.021		39.6	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	2YXHF1	1:1	0.02	831.50	166300	DF1+QDFM	0.0	25.70	24.67	1	1	Back	0	0.167	1.268	0.212	0.053		36.0	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	2YXHF1	1:1	0.02	831.50	166300	DF1+QDFM	0.0	25.70	24.65	50	28	Back	0	0.142	1.274	0.181	0.045		36.6	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	2YXHF1	1:1	0.01	831.50	166300	DF1+QDFM	0.0	25.70	24.67	1	1	Back	0	0.258	1.274	0.327	0.083	A28	34.1	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	2YXHF1	1:1	0.09	831.50	166300	DF1+QDFM	0.0	25.70	24.65	50	28	Back	0	0.191	1.274	0.243	0.061		35.3	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	2YXHF1	1:1	0.07	831.50	166300	CP-QDFM	1.5	24.20	23.07	1	1	Back	0	0.118	1.297	0.153	0.038		35.9	
ANSI/IEEE C63.5-1992 - SAFETY LIMIT																				Extremity				4.0 W/kg (mW/g)	
Spatial Peak																				averaged over 10 grams					
Uncontrolled Exposure/General Population																									

FCC ID: BCG-A3335	RF EXPOSURE REPORT	Approved by: Technical Manager
DUT Type: Watch		Page 63 of 77

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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	MPE [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 #	Plimt [dBm]	Overall Plimt [dBm]
Head	NR Band n5	20	QPSK	Aluminum	Sport	9FN9I	1:1	0.18	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Front	30	0.002	1.306	0.003	0.002		51.1	
Head	NR Band n5	20	QPSK	Aluminum	Sport	9FN9I	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Front	30	0.002	1.297	0.003	0.002		51.1	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	9FN9I	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Front	30	0.000	1.306	0.000	0.000		64.1	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	9FN9I	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Front	30	0.000	1.297	0.003	0.003		51.1	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	9FN9I	1:1	0.20	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Front	30	0.002	1.306	0.003	0.002		51.1	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	9FN9I	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Front	30	0.002	1.297	0.003	0.002		51.1	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	9FN9I	1:1	0.01	836.50	167300	CP-OFDM	1.5	24.20	23.08	1	1	Front	30	0.000	1.294	0.000	0.000		62.6	
Head	NR Band n5	20	QPSK	Titanium	Sport	X6W02	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Front	30	0.001	1.306	0.001	0.001		54.1	
Head	NR Band n5	20	QPSK	Titanium	Sport	X6W02	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Front	30	0.002	1.297	0.003	0.002		51.1	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	X6W02	1:1	0.19	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Front	30	0.000	1.306	0.000	0.000		64.1	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	X6W02	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Front	30	0.002	1.297	0.003	0.002		51.1	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	X6W02	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Front	30	0.000	1.306	0.000	0.000		64.1	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	X6W02	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Front	30	0.003	1.297	0.004	0.003	A29	49.3	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	X6W02	1:1	0.03	836.50	167300	CP-OFDM	1.5	24.20	23.08	1	1	Front	30	0.000	1.294	0.000	0.000		62.6	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

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	MPE [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 #	Plimt [dBm]	Overall Plimt [dBm]
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	CC79M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Back	0	0.082	1.306	0.107	0.027		38.9	
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	CC79M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Back	0	0.074	1.297	0.096	0.024		39.4	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	CC79M	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Back	0	0.139	1.306	0.182	0.046		36.6	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	CC79M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Back	0	0.135	1.297	0.175	0.044		36.6	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	CC79M	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Back	0	0.192	1.306	0.251	0.063		35.2	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	CC79M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Back	0	0.183	1.297	0.236	0.059		35.5	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	CC79M	1:1	0.07	836.50	167300	CP-OFDM	1.5	24.20	23.08	1	1	Back	0	0.141	1.294	0.185	0.046		35.0	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	9PFGC	1:1	0.10	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Back	0	0.072	1.306	0.094	0.024		39.5	34.9
Extremity	NR Band n5	20	QPSK	Titanium	Sport	9PFGC	1:1	0.10	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Back	0	0.073	1.297	0.095	0.024		39.4	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	9PFGC	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Back	0	0.133	1.306	0.174	0.044		36.8	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	9PFGC	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Back	0	0.139	1.297	0.180	0.045		36.7	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	9PFGC	1:1	0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.54	1	104	Back	0	0.202	1.306	0.264	0.066	A30	35.0	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	9PFGC	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.57	50	28	Back	0	0.198	1.297	0.257	0.064		35.1	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	9PFGC	1:1	0.05	836.50	167300	CP-OFDM	1.5	24.20	23.08	1	1	Back	0	0.148	1.294	0.192	0.048		34.9	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			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	MPE [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 #	Plimt [dBm]	Overall Plimt [dBm]
Head	NR Band n66	20	QPSK	Aluminum	Sport	0GVNAQ	1:1	0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.06	1	104	Front	30	0.125	1.300	0.163	0.102		32.6	
Head	NR Band n66	20	QPSK	Aluminum	Sport	0GVNAQ	1:1	0.11	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.04	50	28	Front	30	0.110	1.306	0.144	0.090		33.2	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	0GVNAQ	1:1	0.12	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.06	1	104	Front	30	0.192	1.300	0.250	0.156	A31	30.8	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	0GVNAQ	1:1	0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.04	50	28	Front	30	0.173	1.306	0.226	0.141		31.2	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	0GVNAQ	1:1	0.03	1720.00	344000	CP-OFDM	1.5	23.70	22.45	1	1	Front	30	0.111	1.304	0.148	0.091		31.5	
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	0GVNAQ	1:1	-0.07	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.06	1	104	Front	30	0.157	1.300	0.204	0.128		31.6	
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	0GVNAQ	1:1	-0.02	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.04	50	28	Front	30	0.156	1.306	0.204	0.128		31.6	
Head	NR Band n66	20	QPSK	Titanium	Sport	70XTQ	1:1	0.14	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.06	1	104	Front	30	0.076	1.306	0.156	0.086		32.8	
Head	NR Band n66	20	QPSK	Titanium	Sport	70XTQ	1:1	0.16	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.04	50	28	Front	30	0.108	1.306	0.141	0.088		33.2	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.09	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.06	1	104	Front	30	0.148	1.300	0.192	0.120		31.9	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.04	50	28	Front	30	0.191	1.306	0.249	0.156		30.8	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	70XTQ	1:1	0.08	1720.00	344000	CP-OFDM	1.5	23.70	22.45	1	1	Front	30	0.094	1.314	0.125	0.078		32.1	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	70XTQ	1:1	0.06	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.06	1	104	Front	30	0.164	1.300	0.213	0.133		31.5	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	70XTQ	1:1	0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.04	50	28	Front	30	0.137	1.306	0.179	0.112		32.2	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

10.32 NR Band n66 Standalone Extremity SAR

Table 10-32

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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n25	20	QPSK	Aluminum	Sport	GGGCC	1:1	0.00	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Front	30	0.154	1.334	0.205	0.128		31.6	
Head	NR Band n25	20	QPSK	Aluminum	Sport	GGGCC	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Front	30	0.167	1.349	0.225	0.141		31.2	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	GGGCC	1:1	0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Front	30	0.263	1.334	0.351	0.219		29.3	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	GGGCC	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Front	30	0.268	1.349	0.362	0.226		29.2	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	GGGCC	1:1	0.01	1860.00	372000	CP-OFDM	1.5	23.70	22.20	1	1	Front	30	0.167	1.413	0.236	0.148		29.5	
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	GGGCC	1:1	0.09	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Front	30	0.222	1.334	0.296	0.185		30.0	
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	GGGCC	1:1	0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Front	30	0.234	1.349	0.316	0.198		29.7	
Head	NR Band n25	20	QPSK	Titanium	Sport	JZVVG	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Front	30	0.147	1.334	0.196	0.123		31.8	
Head	NR Band n25	20	QPSK	Titanium	Sport	JZVVG	1:1	0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Front	30	0.159	1.349	0.214	0.134		31.4	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	JZVVG	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Front	30	0.251	1.334	0.335	0.209		29.5	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	JZVVG	1:1	-0.05	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Front	30	0.277	1.349	0.374	0.234	A33	29.0	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	JZVVG	1:1	0.00	1860.00	372000	CP-OFDM	1.5	23.70	22.20	1	1	Front	30	0.173	1.413	0.244	0.153		29.4	
Head	NR Band n25	20	QPSK	Titanium	Metal Links	JZVVG	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Front	30	0.234	1.334	0.312	0.195		29.8	
Head	NR Band n25	20	QPSK	Titanium	Metal Links	JZVVG	1:1	0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Front	30	0.221	1.349	0.298	0.186		30.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	W7XFI	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Back	0	0.082	1.334	0.109	0.027		38.3	
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	W7XFI	1:1	-0.09	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Back	0	0.084	1.349	0.113	0.028		38.2	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Back	0	0.120	1.334	0.160	0.047		36.7	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Back	0	0.145	1.349	0.196	0.049		35.8	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	W7XFI	1:1	0.04	1860.00	372000	CP-OFDM	1.5	23.70	22.20	1	1	Back	0	0.069	1.413	0.097	0.024		37.3	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	W7XFI	1:1	0.08	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Back	0	0.104	1.334	0.139	0.063		37.3	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	W7XFI	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Back	0	0.109	1.349	0.147	0.037		37.0	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	JZVVG	1:1	0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Back	0	0.080	1.334	0.107	0.027		38.4	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	JZVVG	1:1	0.06	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Back	0	0.087	1.349	0.117	0.029		38.0	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	JZVVG	1:1	0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Back	0	0.153	1.334	0.204	0.051		35.6	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	JZVVG	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Back	0	0.180	1.349	0.243	0.061	A34	34.9	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	JZVVG	1:1	0.11	1860.00	372000	CP-OFDM	1.5	23.70	22.20	1	1	Back	0	0.134	1.413	0.189	0.047		34.4	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	JZVVG	1:1	0.00	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.95	1	1	Back	0	0.127	1.334	0.169	0.052		36.4	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	JZVVG	1:1	0.09	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.90	50	28	Back	0	0.134	1.349	0.181	0.045		36.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 10 grams						

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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.14	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	1	1	Front	30	0.954	1.002	0.956	0.998		23.1	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	23.90	23.85	1	104	Front	30	0.967	1.012	0.979	0.917		23.0	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.01	2560.00	512000	DFT-s-OFDM	0.0	23.90	23.80	1	104	Front	30	1.150	1.023	1.176	0.735	A35	22.2	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.07	2510.00	510000	DFT-s-OFDM	0.0	23.90	23.87	50	28	Front	30	0.938	1.007	0.945	0.991		23.2	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	23.90	23.86	50	28	Front	30	0.902	1.009	0.910	0.969		23.3	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.02	2560.00	512000	DFT-s-OFDM	0.0	23.90	23.84	50	28	Front	30	0.945	1.014	0.958	0.999		23.1	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	23.90	23.35	100	0	Front	30	0.873	1.135	0.992	0.619		23.0	
Head	NR Band n7	20	QPSK	Aluminum	Sport	K4HQT	1:1	0.02	2535.00	507000	CP-OFDM	0.2	23.70	22.94	1	1	Front	30	0.758	1.191	0.909	0.564		23.2	
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	K4HQT	1:1	0.02	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	1	1	Front	30	0.619	1.002	0.620	0.388		25.0	
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	K4HQT	1:1	0.08	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.87	50	28	Front	30	0.631	1.007	0.635	0.397		24.9	
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	K4HQT	1:1	0.08	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	1	1	Front	30	0.738	1.002	0.735	0.409		24.1	
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	K4HQT	1:1	0.13	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.87	50	28	Front	30	0.630	1.007	0.634	0.396		24.9	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.00	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	1	1	Front	30	0.929	1.002	0.931	0.982		23.2	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	23.90	23.85	1	104	Front	30	1.050	1.012	1.063	0.664		22.7	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.06	2560.00	512000	DFT-s-OFDM	0.0	23.90	23.80	1	104	Front	30	1.050	1.023	1.074	0.671		22.6	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.04	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.87	50	28	Front	30	1.020	1.007	1.027	0.642		22.8	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.08	2540.00	510000	DFT-s-OFDM	0.0	23.90	23.87	50	28	Front	30	1.007	1.017	1.017	0.916		22.9	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	23.90	23.86	50	28	Front	30	0.984	1.007	1.017	0.916		22.9	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.11	2560.00	512000	DFT-s-OFDM	0.0	23.90	23.84	50	28	Front	30	1.040	1.014	1.055	0.659		22.7	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	23.90	23.35	100	0	Front	30	0.804	1.135	0.993	0.571		23.3	
Head	NR Band n7	20	QPSK	Titanium	Sport	ZYXFH	1:1	0.06	2535.00	507000	CP-OFDM	0.2	23.70	22.94	1	1	Front	30	0.662	1.191	0.788	0.403		24.3	
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	ZYXFH	1:1	0.08	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	1	1	Front	30	0.726	1.002	0.721	0.444		24.4	
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	ZYXFH	1:1	0.06	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	50	28	Front	30	0.724	1.007	0.729	0.456		24.3	
Head	NR Band n7	20	QPSK	Titanium	Metal Links	ZYXFH	1:1	0.01	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.89	1	1	Front	30	0.670	1.002	0.711	0.404		24.6	
Head	NR Band n7	20	QPSK	Titanium	Metal Links	ZYXFH	1:1	0.08	2510.00	502000	DFT-s-OFDM	0.0	23.90	23.87	50	28	Front	30	0.651	1.007	0.651	0.407		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		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 Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	100NK	1:1	-0.01	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.50	1	1	Back	0	0.095	1.175	0.112	0.028		38.2	
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	100NK	1:1	-0.06	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.52	50	28	Back	0	0.085	1.169	0.111	0.028		38.3	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.16	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.50	1	1	Back	0	0.130	1.175	0.153	0.038		36.9	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	100NK	1:1	0.13	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.52	50	28	Back	0	0.119	1.169	0.139	0.031		37.3	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.16	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.50	1	1	Back	0	0.174	1.175	0.204	0.061		35.6	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	100NK	1:1	0.07	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.52	50	28	Back	0	0.146	1.169	0.171	0.043		36.4	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	100NK	1:1	-0.06	2525.00	501000	CP-OFDM	1.5	23.70	22.94	1	1	Back	0	0.079	1.191	0.094	0.024		37.5	
Extremity	NR Band n7	20	QPSK	Titanium	Sport	XW02	1:1	-0.08	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.50	1	1	Back	0	0.124	1.175	0.146	0.037		37.1	
Extremity	NR Band n7	20	QPSK	Titanium	Sport	XW02	1:1	0.03	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.52	50	28	Back	0	0.130	1.169	0.152	0.038		36.9	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	XW02	1:1	0.10	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.50	1	1	Back	0	0.233	1.175	0.274	0.069		34.3	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	XW02	1:1	0.13	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.52	50	28	Back	0	0.234	1.169	0.274	0.069		34.3	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	XW02	1:1	0.03	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.50	1	1	Back	0	0.306	1.175	0.360	0.090	A36	33.2	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	XW02	1:1	0.04	2520.00	502000	DFT-s-OFDM	0.0	25.20	24.52	50	28	Back	0	0.277	1.169	0.324	0.081		33.6	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	XW02	1:1	0.13	2525.00	501000	CP-OFDM	1.5	23.70	22.94	1	1	Back	0	0.205	1.191	0.244	0.061		33.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Extremity					
Spatial Peak																				4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																				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 Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.97	1	26	Front	10	0.677	1.327	0.898	0.561		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.02	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.739	1.343	0.992	0.620		24.8	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Front	10	0.751	1.312	0.985	0.614		24.8	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.03	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.80	1	49	Front	10	0.601	1.380	0.829	0.518		25.6	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.03	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.91	1	1	Front	10	0.661	1.346	0.890	0.565		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.00	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.96	25	13	Front	10	0.709	1.374	0.903	0.560		25.0	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.00	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.93	25	13	Front	10	0.731	1.340	0.900	0.613		24.8	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Front	10	0.862	1.318	1.136	0.710	A17	24.2	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.01	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.82	25	13	Front	10	0.709	1.374	0.904	0.609		24.9	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.08	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.83	25	13	Front	10	0.825	1.371	0.957	0.536		25.4	
Head	NR Band n41	20	QPSK	Aluminum	Sport	NP0NC	1:1	0.09	2592.99	518598	DFT-s-OFDM	1.0	24.20	23.50	50	0	Front	10	0.734	1.175	0.862	0.539		24.4	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.03	2592.99	518598	CP-OFDM	1.5	23.70	23.98	1	1	Front	10	0.607	1.153	0.700	0.438		24.8	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.11	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.97	1	26	Front	10	0.594	1.327	0.669	0.418		26.5	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.07	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.689	1.343	0.925	0.578		25.1	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Front	10	0.525	1.312	0.689	0.431		26.4	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.08	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.80	1	49	Front	10	0.722	1.360	1.003	0.627		24.7	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.05	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.93	1	1	Front	10	0.667	1.346	0.898	0.561		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.08	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.96	25	13	Front	10	0.730	1.330	0.971	0.607		24.9	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.03	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.93	25	13	Front	10	0.701	1.340	0.939	0.587		25.0	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Front	10	0.555	1.318	0.731	0.457		26.1	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.16	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.82	25	13	Front	10	0.694	1.374	0.954	0.596		24.9	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.06	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.83	25	13	Front	10	0.664	1.371	0.909	0.568		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	NP0NC	1:1	0.08	2592.99	518598	DFT-s-OFDM	1.0	24.20	23.50	50	0	Front	10	0.609	1.175	0.716	0.448		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.09	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.97	1	26	Front	10	0.582	1.327	0.772	0.483		25.9	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.06	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.614	1.343	0.825	0.516		25.6	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Front	10	0.496	1.312	0.651	0.407		26.6	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.12	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.80	1	49	Front	10	0.715	1.380	0.987	0.617		24.8	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.06	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.91	1	1	Front	10	0.646	1.346	0.870	0.544		25.3	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.96	25	13	Front	10	0.622	1.330	0.814	0.509		25.4	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.04	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.93	25	13	Front	10	0.678	1.340	0.909	0.568		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Front	10	0.503	1.318	0.663	0.414		26.5	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.03	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.82	25	13	Front	10	0.679	1.374	0.933	0.583		25.0	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.13	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.83	25	13	Front	10	0.660	1.371	0.905	0.566		25.2	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	NP0NC	1:1	0.07	2592.99	518598	DFT-s-OFDM	1.0	24.20	23.50	50	0	Front	10	0.534	1.175	0.627	0.392		25.8	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	-0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.97	1	26	Front	10	0.660	1.327	0.876	0.548		25.3	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.09	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.785	1.343	1.001	0.626		24.7	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	1	26	Front	10	0.633	1.312	0.830	0.519		25.5	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	-0.10	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.80	1	49	Front	10	0.712	1.380	0.983	0.614		24.8	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.00	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.91	1	1	Front	10	0.678	1.346	0.897	0.564		25.3	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.08	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.96	25	13	Front	10	0.762	1.330	1.013	0.633		24.7	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.01	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.91	25	13	Front	10	0.745	1.340	0.998	0.624		24.7	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Front	10	0.587	1.340	0.878	0.548		25.3	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	-0.02	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.82	25	13	Front	10	0.664	1.374	0.912	0.570		25.1	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.00	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.83	25	13	Front	10	0.585	1.374	0.802	0.501		25.7	
Head	NR Band n41	20	QPSK	Titanium	Sport	YX2L	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	1	26	Front	10	0.609	1.175	0.627	0.392		25.4	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.07	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.97	1	26	Front	10	0.687	1.327	0.812	0.570		25.1	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.00	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.92	1	49	Front	10	0.629	1.343	0.845	0.528		25.5	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	1	26	Front	10	0.587	1.340	0.878	0.548		25.3	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.09	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.80	1	49	Front	10	0.680	1.380	0.938	0.586		25.0	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.04	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.91	1	1	Front	10	0.583	1.346	0.785	0.491		25.8	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	23.97	1	26	Front	10	0.678	1.327	0.876	0.548		25.3	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	-0.01	2549.49	509898	DFT-s-OFDM	0.0	25.20	23.93	25	13	Front	10	0.780	1.340	1.056	0.660		24.5	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Front	10	0.517	1.318	0.681	0.426		26.4	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.07	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.82	25	13	Front	10	0.639	1.374	0.933	0.583		25.0	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.00	2679.99	535998	DFT-s-OFDM	0.0	25.20	23.83	25	13	Front	10	0.594	1.374	0.878	0.548		25.3	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	YX2L	1:1	0.09	2592.99	518598	DFT-s-OFDM	1.0	24.20	23.50	50										

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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	K4HQ7	1:1	0.13	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Back	0	0.097	1.312	0.127	0.092		37.7	
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	K4HQ7	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Back	0	0.104	1.318	0.137	0.094		37.3	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	K4HQ7	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Back	0	0.178	1.312	0.234	0.059		35.0	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	K4HQ7	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Back	0	0.182	1.318	0.240	0.060		34.5	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	K4HQ7	1:1	0.03	2592.99	518598	CP-OFDM	1.5	23.70	23.08	1	1	Back	0	0.138	1.153	0.159	0.040		35.2	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	K4HQ7	1:1	0.15	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Back	0	0.149	1.312	0.195	0.049		35.8	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	K4HQ7	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Back	0	0.164	1.318	0.216	0.054		35.4	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	PIM4Y	1:1	0.12	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Back	0	0.200	1.312	0.262	0.066		34.5	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	PIM4Y	1:1	0.12	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Back	0	0.205	1.318	0.270	0.068		34.4	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	PIM4Y	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Back	0	0.198	1.312	0.260	0.065		34.6	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	PIM4Y	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Back	0	0.198	1.318	0.261	0.065		34.5	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	PIM4Y	1:1	0.11	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.02	1	26	Back	0	0.230	1.312	0.302	0.076		33.9	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	PIM4Y	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.00	25	13	Back	0	0.245	1.318	0.323	0.081	A39	33.6	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	PIM4Y	1:1	0.08	2592.99	518598	CP-OFDM	1.5	23.70	23.08	1	1	Back	0	0.196	1.153	0.226	0.057		33.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity							
Spatial Peak																		4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 10 grams							

10.39 2.4 GHz WIFI SISO Standalone Head SAR

Table 10-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #		
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Sport	CC79M	99.76	0.03	2412	1	1.0	19.00	18.04	Front	10	0.262	1.247	1.002	0.327	0.204			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	CC79M	99.76	-0.01	2412	1	1.0	19.00	18.04	Front	10	0.196	1.247	1.002	0.245	0.153			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Links	CC79M	99.76	0.02	2412	1	1.0	19.00	18.04	Front	10	0.188	1.247	1.002	0.235	0.147			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Sport	KM0PL	99.76	0.15	2412	1	1.0	19.00	18.04	Front	10	0.314	1.247	1.002	0.392	0.245	A39		
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Loop	KM0PL	99.76	-0.05	2412	1	1.0	19.00	18.04	Front	10	0.220	1.247	1.002	0.275	0.172			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Links	KM0PL	99.76	-0.07	2412	1	1.0	19.00	18.04	Front	10	0.196	1.247	1.002	0.245	0.153			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Sport	CC79M	29.21	-0.14	2412	1	1.0	19.00	18.04	Front	10	0.072	1.247	1.027	0.092	0.058			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	CC79M	29.21	-0.09	2412	1	1.0	19.00	18.04	Front	10	0.055	1.247	1.027	0.070	0.044			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Links	CC79M	29.21	0.06	2412	1	1.0	19.00	18.04	Front	10	0.046	1.247	1.027	0.059	0.037			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Sport	KM0PL	29.21	-0.05	2412	1	1.0	19.00	18.04	Front	10	0.077	1.247	1.027	0.099	0.062			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Loop	KM0PL	29.21	-0.08	2412	1	1.0	19.00	18.04	Front	10	0.057	1.247	1.027	0.073	0.046			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Links	KM0PL	29.21	0.03	2412	1	1.0	19.00	18.04	Front	10	0.048	1.247	1.027	0.063	0.039			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to 30.0% transmission duty factor since the duty factor of the device is permanently limited to 30.0% when the cellular radio is active, per the manufacturer. The WLAN scenarios with the reduced duty factor was tested at 29.97% transmission duty factor due to the software limitation and the cellular antenna was not active.

10.40 2.4 GHz WIFI SISO Standalone Extremity SAR

Table 10-40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #		
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Sport	CC79M	99.76	0.05	2412	1	1.0	19.00	18.04	Back	0	0.007	1.247	1.002	0.009	0.002			
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	CC79M	99.76	0.05	2412	1	1.0	19.00	18.04	Back	0	0.013	1.247	1.002	0.041	0.010			
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Links	CC79M	99.76	-0.10	2412	1	1.0	19.00	18.04	Back	0	0.045	1.247	1.002	0.056	0.014			
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Sport	KM0PL	99.76	-0.07	2412	1	1.0	19.00	18.04	Back	0	0.016	1.247	1.002	0.020	0.005			
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Loop	KM0PL	99.76	0.08	2412	1	1.0	19.00	18.04	Back	0	0.026	1.247	1.002	0.032	0.008			
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Links	KM0PL	99.76	-0.06	2412	1	1.0	19.00	18.04	Back	0	0.078	1.247	1.002	0.097	0.024	A40		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity					
Spatial Peak																		4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 10 grams					

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10.41 5 GHz WIFI SISO Standalone Head SAR

Table 10-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	93.29	0.01	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.110	1.172	1.072	0.138	0.086	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	93.29	-0.01	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.113	1.216	1.072	0.147	0.092	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	93.29	-0.18	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.127	1.321	1.072	0.180	0.113	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	93.29	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.102	1.172	1.072	0.128	0.080	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	93.29	0.01	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.102	1.216	1.072	0.133	0.083	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	93.29	0.09	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.118	1.321	1.072	0.167	0.104	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	93.29	-0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.104	1.172	1.072	0.131	0.082	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	93.29	0.05	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.108	1.216	1.072	0.141	0.088	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	93.29	-0.14	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.125	1.321	1.072	0.177	0.111	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	93.29	0.06	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.107	1.172	1.072	0.134	0.084	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	93.29	0.03	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.156	1.216	1.072	0.203	0.127	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	93.29	0.11	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.163	1.321	1.072	0.231	0.144	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	93.29	0.08	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.103	1.172	1.072	0.129	0.081	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	93.29	-0.07	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.137	1.216	1.072	0.179	0.112	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	93.29	-0.14	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.163	1.321	1.072	0.231	0.144	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	93.29	0.03	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.106	1.172	1.072	0.133	0.083	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	93.29	0.05	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.144	1.216	1.072	0.188	0.118	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	93.29	-0.03	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.167	1.321	1.072	0.236	0.148	A41
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	29.93	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.022	1.172	1.002	0.016	0.016	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	29.93	0.04	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.035	1.321	1.002	0.046	0.029	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	29.93	0.06	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.023	1.172	1.002	0.027	0.017	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	29.93	0.05	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.040	1.216	1.002	0.037	0.023	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	29.93	0.02	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.013	1.321	1.002	0.045	0.028	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	29.93	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.021	1.172	1.002	0.025	0.016	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	29.93	0.06	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.029	1.216	1.002	0.035	0.022	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	29.93	0.03	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.035	1.321	1.002	0.046	0.029	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	29.93	0.03	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.025	1.172	1.002	0.029	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	29.93	0.01	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.035	1.216	1.002	0.043	0.027	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	29.93	-0.05	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.050	1.321	1.002	0.066	0.041	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	29.93	0.03	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.025	1.172	1.002	0.029	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	29.93	0.09	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.029	1.216	1.002	0.035	0.022	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	29.93	0.01	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.035	1.321	1.002	0.046	0.029	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	29.93	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.023	1.172	1.002	0.027	0.017	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	29.93	0.08	5500	100	U-NII-2C	6.0	17.00	16.15	Front	10	0.031	1.216	1.002	0.038	0.024	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	29.93	0.08	5785	157	U-NII-3	6.0	17.00	15.79	Front	10	0.038	1.321	1.002	0.050	0.031	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to 30.0% transmission duty factor since the duty factor of the device is permanently limited to 30.0% when the cellular radio is active, per the manufacturer. The WLAN scenarios with the reduced duty factor was tested at 29.97% transmission duty factor due to the software limitation and the cellular antenna was not active.

10.42 5 GHz WIFI SISO Standalone Extremity SAR

Table 10-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	93.29	0.08	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.015	1.172	1.072	0.019	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	93.29	0.01	5500	100	U-NII-2C	6.0	17.00	16.15	Back	0	0.014	1.216	1.072	0.018	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	K4HQ1	93.29	0.08	5785	157	U-NII-3	6.0	17.00	15.79	Back	0	0.006	1.321	1.072	0.008	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	93.29	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.014	1.172	1.072	0.018	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	93.29	0.08	5500	100	U-NII-2C	6.0	17.00	16.15	Back	0	0.019	1.216	1.072	0.025	0.006	A42
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	K4HQ1	93.29	0.01	5785	157	U-NII-3	6.0	17.00	15.79	Back	0	0.007	1.321	1.072	0.010	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	93.29	-0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.010	1.172	1.072	0.013	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	93.29	0.08	5500	100	U-NII-2C	6.0	17.00	16.15	Back	0	0.011	1.216	1.072	0.014	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	K4HQ1	93.29	0.01	5785	157	U-NII-3	6.0	17.00	15.79	Back	0	0.003	1.321	1.072	0.004	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	93.29	-0.13	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.001	1.172	1.072	0.001	0.000	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	93.29	0.02	5500	100	U-NII-2C	6.0	17.00	16.15	Back	0	0.005	1.216	1.072	0.007	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	9PFC	93.29	0.07	5785	157	U-NII-3	6.0	17.00	15.79	Back	0	0.007	1.321	1.072	0.010	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	93.29	0.05	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.003	1.172	1.072	0.004	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	93.29	0.09	5500	100	U-NII-2C	6.0	17.00	16.15	Back	0	0.006	1.216	1.072	0.008	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9PFC	93.29	0.15	5785	157	U-NII-3	6.0	17.00	15.79	Back	0	0.015	1.321	1.072	0.021	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	93.29	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.000	1.172	1.072	0.000	0.000	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	93.29	0.02	5500	100	U-NII-2C	6.0	17.00	16.15	Back	0	0.000	1.216	1.072	0.009	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	9PFC	93.29	0.04	5785	157	U-NII-3	6.0	17.00	15.79	Back	0	0.009	1.321	1.072	0.013	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Extremity					
Spatial Peak																	4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 10 grams					

10.43 2.4 GHz Bluetooth SISO Standalone Head SAR

Table 10-43

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	CC79M	100.00	0.01	2402	0	1	17.50	15.76	Front	10	0.140	1.493	1.000	0.209	0.131	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	CC79M	100.00	0.05	2402	0	1	17.50	15.76	Front	10	0.089	1.493	1.000	0.133	0.083	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	CC79M	100.00	0.07	2402	0	1	17.50	15.76	Front	10	0.099	1.493	1.000	0.148	0.093	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Sport	KMDPL	100.00	0.01	2402	0	1	17.50	15.76	Front	10	0.149	1.493	1.000	0.222	0.139	A43
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	KMDPL	100.00	0.00	2402	0	1	17.50	15.76	Front	10	0.096	1.493	1.000	0.143	0.089	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	KMDPL	100.00	0.00	2402	0	1	17.50	15.76	Front	10	0.102	1.493	1.000	0.152	0.095	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	CC79M	100.00	-0.15	2402	0	1	13.00	11.17	Front	10	0.035	1.524	1.000	0.053	0.033	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	CC79M	100.00	-0.08	2402	0	1	13.00	11.17	Front	10	0.027	1.524	1.000	0.041	0.026	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	CC79M	100.00	0.08	2402	0	1	13.00	11.17	Front	10	0.022	1.524	1.000	0.034	0.021	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Sport	KMDPL	100.00	-0.08	2402	0	1	13.00	11.17	Front	10	0.037	1.524	1.000	0.056	0.035	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	KMDPL	100.00	-0.06	2402	0	1	13.00	11.17	Front	10	0.027	1.524	1.000	0.041	0.026	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	KMDPL	100.00	0.13	2402	0	1	13.00	11.17	Front	10	0.025	1.524	1.000	0.038	0.024	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram					

10.44 2.4 GHz Bluetooth SISO Standalone Extremity SAR

Table 10-44

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	CC79M	100.00	0.07	2402	0	1	17.50	15.76	Back	0	0.004	1.493	1.000	0.006	0.002	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	CC79M	100.00	-0.12	2402	0	1	17.50	15.76	Back	0	0.013	1.493	1.000	0.019	0.005	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	CC79M	100.00	0.13	2402	0	1	17.50	15.76	Back	0	0.015	1.493	1.000	0.022	0.006	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Sport	KMDPL	100.00	0.01	2402	0	1	17.50	15.76	Back	0	0.007	1.493	1.000	0.010	0.003	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	KMDPL	100.00	-0.08	2402	0	1	17.50	15.76	Back	0	0.021	1.493	1.000	0.031	0.008	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	KMDPL	100.00	-0.04	2402	0	1	17.50	15.76	Back	0	0.025	1.493	1.000	0.037	0.009	A44
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	CC79M	100.00	0.04	2402	0	1	13.00	11.17	Back	0	0.003	1.524	1.000	0.005	0.001	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	CC79M	100.00	0.09	2402	0	1	13.00	11.17	Back	0	0.001	1.524	1.000	0.002	0.001	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	CC79M	100.00	-0.04	2402	0	1	13.00	11.17	Back	0	0.003	1.524	1.000	0.005	0.001	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Sport	KMDPL	100.00	0.01	2402	0	1	13.00	11.17	Back	0	0.001	1.524	1.000	0.002	0.001	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	KMDPL	100.00	0.08	2402	0	1	13.00	11.17	Back	0	0.002	1.524	1.000	0.003	0.001	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	KMDPL	100.00	0.02	2402	0	1	13.00	11.17	Back	0	0.005	1.524	1.000	0.008	0.002	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Extremity 4.0 W/kg (mW/g) averaged over 10 grams					

10.45 5 GHz 802.15.4 ab-NB SISO Standalone Head SAR

Table 10-45

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	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Sport	K4HQJT	8.40	0.05	5846.30	High	1	16.00	15.01	Front	10	0.002	1.256	0.003	0.002	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	K4HQJT	8.40	0.02	5846.30	High	1	16.00	15.01	Front	10	0.000	1.256	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	K4HQJT	8.40	0.04	5846.30	High	1	16.00	15.01	Front	10	0.001	1.256	0.001	0.001	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Sport	P9M4Y	8.40	0.05	5846.30	High	1	16.00	15.01	Front	10	0.009	1.256	0.012	0.008	A45
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	P9M4Y	8.40	0.03	5846.30	High	1	16.00	15.01	Front	10	0.004	1.256	0.005	0.003	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	P9M4Y	8.40	0.06	5846.30	High	1	16.00	15.01	Front	10	0.007	1.256	0.009	0.006	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			
Spatial Peak															Head				
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)				
															averaged over 1 gram				

Note: The SAR was scaled to the 8.9% transmission duty factor.

10.46 5 GHz 802.15.4 ab-NB SISO Standalone Extremity SAR

Table 10-46

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	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Sport	9PFCQ	8.40	0.01	5846.30	High	1	16.00	15.01	Back	0	0.000	1.256	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	9PFCQ	8.40	0.01	5846.30	High	1	16.00	15.01	Back	0	0.000	1.256	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	9PFCQ	8.40	0.03	5846.30	High	1	16.00	15.01	Back	0	0.000	1.256	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Sport	P9M4Y	8.40	0.07	5846.30	High	1	16.00	15.01	Back	0	0.000	1.256	0.000	0.000	A46
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	P9M4Y	8.40	0.08	5846.30	High	1	16.00	15.01	Back	0	0.000	1.256	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	P9M4Y	8.40	0.05	5846.30	High	1	16.00	15.01	Back	0	0.000	1.256	0.000	0.000	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT															Extremity				
Spatial Peak															4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population															averaged over 10 grams				

Note: The SAR was scaled to the 8.9% transmission duty factor.

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10.47 NFC Standalone Extremity SAR

Table 10-47

Exposure	Band / Mode	Signal Type	Ant.	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NFC	B	NFC	Aluminum	Sport	7QV6K	0.08	13.60	Back	0	0.000	0.000	
Extremity	NFC	B	NFC	Aluminum	Metal Loop	7QV6K	0.01	13.60	Back	0	0.000	0.000	
Extremity	NFC	B	NFC	Aluminum	Metal Links	7QV6K	0.06	13.60	Back	0	0.000	0.000	
Extremity	NFC	B	NFC	Titanium	Sport	2YXFH	0.07	13.60	Back	0	0.001	0.000	A47
Extremity	NFC	B	NFC	Titanium	Metal Loop	2YXFH	0.03	13.60	Back	0	0.000	0.000	
Extremity	NFC	B	NFC	Titanium	Metal Links	2YXFH	0.04	13.60	Back	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.48 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D04v01.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg and 2.0 W/kg for 10g SAR.
- This device has two housing types: Aluminum and Titanium. 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.
- 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.
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
- Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

LTE Notes:

- 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.
- 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.
- 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).
- 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.

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5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. This device can only operate with 16 QAM on the uplink with less than or equal to 27 RB. QPSK and 16QAM LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") were additionally measured to support comparison and SAR test exclusion per KDB 941225 D05v02r04 Section 5.2.4 and 5.3.

NR Notes:

1. NR implementation supports SA mode.
2. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
3. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given test configuration was > 0.6 W/kg for 1g SAR evaluations and > 1.5 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 7.3.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.3.5 for more information.
3. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance.
5. 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.

802.15.4 ab-Nb Notes

1. 802.15.4 ab-NB SAR was scaled to the 8.9% transmission duty factor to determine compliance since the duty factor of the device is limited to 8.9% per manufacturer. See Section 8.6 for the time domain plot and calculation for the duty factor of the device.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

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

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

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

HEAD VARIABILITY RESULTS										
Band	FREQUENCY		Mode	Service	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)	
2450	2510.00	502000	NR Band n7, 20 MHz Bandwidth	QPSK, 50 RB, 28 RB Offset	N/A	Front	10mm	1.020	1.010	1.01
2600	2560.00	512000	NR Band n7, 20 MHz Bandwidth	QPSK, 1 RB, 104 RB Offset	N/A	Front	10 mm	1.150	1.040	1.11
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	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	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1351001
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Mini-Circuits	PWR-4GH5	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
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
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	5/7/2025	Annual	5/7/2026	U546470561
Agilent	N9020A	MXA Signal Analyzer	10/27/2024	Annual	10/27/2025	MY51240479
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	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-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	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
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	CLA-13	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
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	D1750V2	1750 MHz SAR Dipole	11/17/2022	Triennial	11/17/2025	1040
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	D2600V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/8/2025	Annual	1/8/2026	1465
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	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7427
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	3837
SPEAG	EX3DV4	SAR Probe	1/14/2025	Annual	1/14/2026	7499
SPEAG	EX3DV4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
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	4/16/2025	Annual	4/16/2026	7532
SPEAG	EX3DV4	SAR Probe	4/11/2025	Annual	4/11/2026	7357

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	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)				RSS			12.2	12.0	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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