



SAR EVALUATION REPORT

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

Date of Testing:
06/24/2020 – 08/19/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2004270019-01-R1.BCG

FCC ID: BCG-A2294

APPLICANT: APPLE, INC.

DUT Type: Watch
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2294

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	10g Extremity (W/kg)
PCT	UMTS 850	826.40 - 846.60 MHz	< 0.1	0.19
PCT	UMTS 1750	1712.4 - 1752.6 MHz	0.22	< 0.1
PCT	UMTS 1900	1852.4 - 1907.6 MHz	0.30	< 0.1
PCT	LTE Band 12	699.7 - 715.3 MHz	< 0.1	0.17
PCT	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A
PCT	LTE Band 13	779.5 - 784.5 MHz	< 0.1	0.23
PCT	LTE Band 26 (Cell)	814.7 - 848.3 MHz	< 0.1	0.20
PCT	LTE Band 5 (Cell)	824.7 - 848.3 MHz	< 0.1	0.15
PCT	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.23	< 0.1
PCT	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A
PCT	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.37	< 0.1
PCT	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A
PCT	LTE Band 7	2502.5 - 2567.5 MHz	1.02	0.28
PCT	LTE Band 41	2498.5 - 2687.5 MHz	1.16	0.15
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.64	< 0.1
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A
NII	U-NII-2A	5260 - 5320 MHz	0.25	< 0.1
NII	U-NII-2C	5500 - 5720 MHz	0.22	< 0.1
NII	U-NII-3	5745 - 5825 MHz	0.20	< 0.1
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.17	< 0.1
Simultaneous SAR per KDB 690783 D01v01r03:			1.43	0.36

Note: This revised Test Report (S/N: 1C2004270019-01-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

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


Randy Ortañez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 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 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
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

1.2 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for LTE Band 7 and Band 41 during next to mouth scenarios. When the speaker is on, the output power of LTE Band 7 and Band 41 is reduced. Detailed descriptions of the power reduction mechanisms are included in the operational description. The power reduction mechanisms were confirmed during the SAR evaluation.

This device additionally uses an independent duty cycle reduction mechanism for WLAN operations while licensed band operations are active. When the licensed band 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.

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1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

1.3.1 Summary Maximum and Nominal Conducted Powers – UMTS Mode

Mode/Band		Modulated Average Output Power (in dBm)		
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6
UMTS B5 (850 MHz)	Max allowed power	25.0	25.0	24.0
	Nominal	24.0	24.0	23.0
UMTS B4 (1750 MHz)	Max allowed power	24.0	24.0	23.0
	Nominal	23.0	23.0	22.0
UMTS B2 (1900 MHz)	Max allowed power	24.0	24.0	23.0
	Nominal	23.0	23.0	22.0

1.3.2 Summary Maximum and Nominal Conducted Powers – LTE Mode

Mode / Band		Modulated Average Output Power (in dBm)
LTE FDD Band 12	Max allowed power	25.0
	Nominal	24.0
LTE FDD Band 17	Max allowed power	25.0
	Nominal	24.0
LTE FDD Band 13	Max allowed power	25.0
	Nominal	24.0
LTE FDD Band 26 (Cell)	Max allowed power	25.0
	Nominal	24.0
LTE FDD Band 5 (Cell)	Max allowed power	25.0
	Nominal	24.0
LTE FDD Band 66 (AWS)	Max allowed power	24.0
	Nominal	23.0
LTE FDD Band 4 (AWS)	Max allowed power	24.0
	Nominal	23.0
LTE FDD Band 25 (PCS)	Max allowed power	24.0
	Nominal	23.0
LTE FDD Band 2 (PCS)	Max allowed power	24.0
	Nominal	23.0
LTE FDD Band 7	Max allowed power	23.5
	Nominal	22.5
LTE FDD Band 7 Reduced	Max allowed power	20.5
	Nominal	19.5
LTE FDD Band 41	Max allowed power	23.5
	Nominal	22.5
LTE FDD Band 41 Reduced	Max allowed power	22.5
	Nominal	21.5

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1.3.3 Summary Maximum and Nominal Conducted Powers – 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	17.50	16.50	17.50	16.50
		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	13.50	12.50	13.50	12.50
		12	17.00	16.00	12.50	11.50	12.50	11.50
		13	18.00	17.00	1.50	0.50	1.50	0.50

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	16.00	15.00	16.00	15.00
		40	16.00	15.00	16.00	15.00
		44	16.00	15.00	16.00	15.00
		48	16.00	15.00	16.00	15.00
		52	16.00	15.00	16.00	15.00
		56	16.00	15.00	16.00	15.00
		60	16.00	15.00	16.00	15.00
		64	16.00	15.00	16.00	15.00
		100	16.00	15.00	16.00	15.00
		104	16.00	15.00	16.00	15.00
		108	16.00	15.00	16.00	15.00
		112	16.00	15.00	16.00	15.00
		116	16.00	15.00	16.00	15.00
		120	16.00	15.00	16.00	15.00
		124	16.00	15.00	16.00	15.00
		128	16.00	15.00	16.00	15.00
		132	16.00	15.00	16.00	15.00
		136	16.00	15.00	16.00	15.00
		140	12.50	11.50	12.50	11.50
		144	16.00	15.00	16.00	15.00
		149	16.00	15.00	16.00	15.00
		153	16.00	15.00	16.00	15.00
		157	16.00	15.00	16.00	15.00
		161	16.00	15.00	16.00	15.00
		165	16.00	15.00	16.00	15.00

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1.3.4 Summary Maximum and Nominal Conducted Powers – Bluetooth Mode

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 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in Appendix E.

1.5 Near Field Communications (NFC) Antenna

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

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, 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 D01v06 4.3.2 procedures.

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Table 1-1
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	UMTS + 2.4 GHz WI-FI	Yes	Yes
2	UMTS + 5 GHz WI-FI	Yes	Yes
3	UMTS + 2.4 GHz Bluetooth	Yes	Yes
4	UMTS + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes	Yes
5	LTE + 2.4 GHz WI-FI	Yes	Yes
6	LTE + 5 GHz WI-FI	Yes	Yes
7	LTE + 2.4 GHz Bluetooth	Yes	Yes
8	LTE + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes	Yes
9	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes	Yes

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth cannot transmit simultaneously.
2. 2.4 GHz WLAN and 5 GHz WLAN share the same antenna path and cannot transmit simultaneously.
3. All licensed modes cannot transmit simultaneously.
4. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN scenario.
5. This device supports VoLTE and VoWIFI.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

This device supports channel 1-13 for 2.4 GHz WLAN. However, since channels 12 and 13 have equal or less maximum output power, 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.

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(B) Licensed Transmitter(s)

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

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

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

1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance, Wrist-worn Device Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)

1.9 Device Serial Numbers

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

1.10 Device Housing Types and Wristband Types

This device has three housing types that were evaluated independently for SAR: Aluminum, Stainless Steel, 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.

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2 LTE INFORMATION

LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission band	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 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 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
Channel Bandwidths	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 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 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 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Additional Information	This device does not support full CA features on 3GPP Release 12. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 12 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eCIC, WiFi Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04:

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.

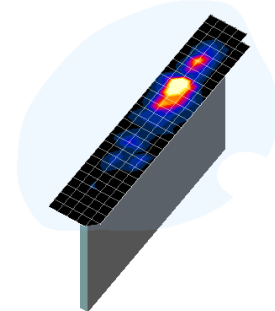


Figure 4-1
Sample SAR Area
Scan

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) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	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 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 body 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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6.1 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.

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

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

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

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 3G SAR Test Reduction Procedure

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

7.3 Procedures Used to Establish RF Signal for SAR

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

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

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

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

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7.4.2 Head SAR Measurements

SAR for head exposure configurations is measured using 12.2 kbps RMC with TPC bits configured to all “1s”. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than 0.25 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that resulted in the highest SAR for that RF channel in the 12.2 kbps RMC mode.

7.4.3 Body SAR Measurements

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

7.4.4 SAR Measurements with Rel 5 HSDPA

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

7.4.5 SAR Measurements with Rel 6 HSUPA

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

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

7.5 SAR Measurement Conditions for LTE

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

7.5.1 Spectrum Plots for RB Configurations

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

7.5.2 MPR

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

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7.5.3 A-MPR

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

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg and < 2.0 W/kg for 10g SAR..
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg for 1g SAR and < 3.625 W/kg for 10g SAR.
- e. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. For 16 QAM configurations with 10 MHz, 15 MHz, and 20 MHz bandwidths, LTE powers for RB size or 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 16 QAM modulations to support comparison and SAR test exclusion per section 5.2.4 and 5.3.

7.5.5 TDD

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

7.6 SAR Testing with 802.11 Transmitters

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

7.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those

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programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

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

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

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

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

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

7.6.4 2.4 GHz SAR Test Requirements

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

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

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.

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7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

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

7.6.6 Initial Test Configuration Procedure

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

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

7.6.7 Subsequent Test Configuration Procedures

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

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8 RF CONDUCTED POWERS

8.1 UMTS Conducted Powers

Table 8-1
Maximum Conducted Powers

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.99	23.99	23.96	23.00	22.99	22.86	22.96	23.00	23.00	-
99		12.2 kbps AMR	23.86	23.94	23.85	23.00	23.00	22.83	22.76	22.88	22.79	-
6	HSDPA	Subtest 1	24.80	24.67	24.78	23.61	23.63	23.46	23.36	23.39	23.51	0
6		Subtest 2	23.70	23.51	23.62	22.65	22.45	22.53	22.46	22.53	22.62	0
6		Subtest 3	23.03	23.07	23.00	22.18	22.29	22.16	22.01	22.11	22.15	0.5
6		Subtest 4	23.07	23.02	23.01	21.92	22.03	21.91	21.97	22.89	21.92	0.5
6	HSUPA	Subtest 1	23.29	23.22	23.20	22.11	22.20	22.12	22.11	22.20	22.27	0
6		Subtest 2	21.57	21.52	21.50	20.41	20.57	20.49	20.47	20.57	20.56	2
6		Subtest 3	22.51	22.40	22.41	21.20	21.34	21.18	21.24	21.27	21.29	1
6		Subtest 4	21.85	21.86	21.83	20.74	20.88	20.77	20.74	20.86	20.89	2
6		Subtest 5	23.85	23.76	23.77	22.71	22.74	22.66	22.66	22.73	22.77	0

This device does not support DC-HSDPA.



Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

8.2.1 LTE Band 12

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

LTE Band 12 10 MHz Bandwidth				
Modulation	RB Size	RB Offset	Mid Channel	Design MPR [dB]
			23095 (707.5 MHz)	
			Conducted Power [dBm]	
QPSK	1	0	23.84	0
	1	25	23.51	0
	1	49	23.81	0
	25	0	22.73	1
	25	12	22.65	1
	25	25	22.82	1
	50	0	22.80	1
	15	0	22.78	1
	15	17	22.58	1
	15	35	22.75	1
	27	0	22.72	1
	27	12	22.62	1
	27	23	22.73	1
16QAM	1	0	22.93	1
	1	25	22.74	1
	1	49	22.67	1
	25	0	21.35	2
	25	12	21.31	2
	25	25	21.24	2
	15	0	21.36	2
	15	17	21.34	2
	15	35	21.24	2
	27	0	21.37	2
	27	12	21.34	2
	27	23	21.23	2

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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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Table 8-3
LTE Band 12 Conducted Powers – 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	24.00	24.00	23.66	0
	1	12	23.96	23.91	23.75	0
	1	24	23.96	23.89	23.69	0
	12	0	22.82	22.83	22.79	1
	12	6	22.88	22.80	22.81	1
	12	13	22.87	22.79	22.76	1
	25	0	22.91	22.87	22.83	1
16QAM	1	0	22.75	22.81	22.57	1
	1	12	22.83	22.77	22.53	1
	1	24	22.84	22.72	22.46	1
	12	0	21.25	21.24	21.16	2
	12	6	21.29	21.23	21.22	2
	12	13	21.28	21.20	21.23	2
	25	0	21.32	21.33	21.30	2

Table 8-4
LTE Band 12 Conducted Powers – 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.79	23.78	23.70	0
	1	7	23.78	23.80	23.72	0
	1	14	23.79	23.67	23.66	0
	8	0	22.86	22.82	22.85	1
	8	4	22.83	22.78	22.82	1
	8	7	22.90	22.76	22.82	1
	15	0	22.86	22.82	22.84	1
16QAM	1	0	22.55	22.67	22.64	1
	1	7	22.51	22.76	22.73	1
	1	14	22.61	22.57	22.40	1
	8	0	21.38	21.31	21.34	2
	8	4	21.27	21.29	21.31	2
	8	7	21.34	21.30	21.32	2
	15	0	21.38	21.34	21.32	2

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Table 8-5
LTE Band 12 Conducted Powers – 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.82	23.83	23.82	0
	1	2	23.77	23.74	23.82	0
	1	5	23.80	23.77	23.81	0
	3	0	23.86	23.85	23.76	0
	3	2	23.81	23.84	23.77	0
	3	3	23.81	23.81	23.79	0
	6	0	22.79	22.80	22.74	1
16QAM	1	0	22.56	22.85	22.57	1
	1	2	22.59	22.53	22.54	1
	1	5	22.60	22.58	22.37	1
	3	0	22.55	22.38	22.36	1
	3	2	22.46	22.41	22.29	1
	3	3	22.41	22.40	22.36	1
	6	0	21.56	21.43	21.47	2

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LTE Band 13

Table 8-6
LTE Band 13 Conducted Powers – 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth				
Modulation	RB Size	RB Offset	Mid Channel	Design MPR [dB]
			23230 (782.0 MHz)	
			Conducted Power [dBm]	
QPSK	1	0	23.80	0
	1	25	23.87	0
	1	49	23.59	0
	25	0	22.76	1
	25	12	22.93	1
	25	25	22.99	1
	50	0	22.97	1
	15	0	22.73	1
	15	17	22.98	1
	15	35	22.89	1
	27	0	22.84	1
	27	12	22.92	1
	27	23	22.98	1
16QAM	1	0	22.72	1
	1	25	22.56	1
	1	49	22.64	1
	25	0	21.35	2
	25	12	21.30	2
	25	25	21.30	2
	15	0	21.32	2
	15	17	21.27	2
	15	35	21.37	2
	27	0	21.31	2
	27	12	21.31	2
	27	23	21.29	2

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Table 8-7
LTE Band 13 Conducted Powers – 5 MHz Bandwidth
LTE Band 13
5 MHz Bandwidth

Modulation	RB Size	RB Offset	Mid Channel	Design MPR [dB]
			23230 (782.0 MHz)	
			Conducted Power [dBm]	
QPSK	1	0	23.67	0
	1	12	23.73	0
	1	24	23.80	0
	12	0	22.56	1
	12	6	22.51	1
	12	13	22.67	1
	25	0	22.54	1
16QAM	1	0	22.48	1
	1	12	22.57	1
	1	24	22.49	1
	12	0	21.21	2
	12	6	21.26	2
	12	13	21.25	2
	25	0	21.31	2

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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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LTE Band 26

Table 8-8
LTE Band 26 Conducted Powers – 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.18	23.19	23.34	0
	1	25	23.17	23.16	23.24	0
	1	49	23.35	23.32	23.21	0
	25	0	22.31	22.22	22.21	1
	25	12	22.24	22.21	22.27	1
	25	25	22.20	22.21	22.17	1
	50	0	22.30	22.29	22.29	1
	15	0	22.11	22.17	22.31	1
	15	17	22.22	22.14	22.19	1
	15	35	22.34	22.24	22.08	1
	27	0	22.20	22.13	22.31	1
	27	12	22.23	22.13	22.17	1
27	23	22.28	22.14	22.10	1	
16QAM	1	0	22.52	22.56	22.67	1
	1	25	22.44	22.72	22.56	1
	1	49	22.41	22.84	22.66	1
	25	0	21.32	21.32	21.25	2
	25	12	21.30	21.36	21.24	2
	25	25	21.30	21.37	21.12	2
	15	0	21.24	21.34	21.25	2
	15	17	21.33	21.36	21.25	2
	15	35	21.34	21.42	21.25	2
	27	0	21.34	21.37	21.23	2
	27	12	21.36	21.37	21.25	2
	27	23	21.35	21.28	21.21	2

Table 8-9
LTE Band 26 Conducted Powers – 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.41	23.27	23.25	0
	1	12	23.37	23.27	23.08	0
	1	24	23.43	23.27	23.10	0
	12	0	22.21	22.19	22.22	1
	12	6	22.25	22.23	22.16	1
	12	13	22.25	22.21	22.18	1
	25	0	22.27	22.24	22.17	1
16QAM	1	0	22.60	22.68	22.47	1
	1	12	22.58	22.73	22.52	1
	1	24	22.69	22.67	22.45	1
	12	0	21.19	21.29	21.21	2
	12	6	21.27	21.32	21.22	2
	12	13	21.26	21.31	21.22	2
	25	0	21.27	21.40	21.22	2

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Table 8-10
LTE Band 26 Conducted Powers – 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.22	23.13	23.07	0
	1	7	23.22	23.21	23.08	0
	1	14	23.23	23.15	23.06	0
	8	0	22.23	22.20	22.13	1
	8	4	22.21	22.24	22.16	1
	8	7	22.28	22.21	22.16	1
	15	0	22.24	22.26	22.19	1
16QAM	1	0	22.19	22.59	22.66	1
	1	7	22.41	22.54	22.61	1
	1	14	22.35	22.64	22.45	1
	8	0	21.28	21.29	21.22	2
	8	4	21.26	21.29	21.23	2
	8	7	21.33	21.32	21.24	2
	15	0	21.23	21.28	21.21	2

Table 8-11
LTE Band 26 Conducted Powers – 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.29	23.22	23.19	0
	1	2	23.25	23.21	23.15	0
	1	5	23.26	23.21	23.25	0
	3	0	23.31	23.26	23.16	0
	3	2	23.26	23.24	23.17	0
	3	3	23.25	23.20	23.17	0
	6	0	22.27	22.27	22.16	1
16QAM	1	0	22.45	22.75	22.41	1
	1	2	22.50	22.63	22.27	1
	1	5	22.41	22.78	22.49	1
	3	0	22.40	22.43	22.31	1
	3	2	22.40	22.42	22.30	1
	3	3	22.44	22.43	22.32	1
	6	0	21.36	21.42	21.30	2

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LTE Band 5

Table 8-12
LTE Band 5 Conducted Powers – 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth				
Modulation	RB Size	RB Offset	Mid Channel	Design MPR [dB]
			20525 (836.5 MHz)	
			Conducted Power [dBm]	
QPSK	1	0	23.89	0
	1	25	23.58	0
	1	49	23.41	0
	25	0	22.62	1
	25	12	22.52	1
	25	25	22.35	1
	50	0	22.61	1
	15	0	22.72	1
	15	17	22.52	1
	15	35	22.30	1
	27	0	22.50	1
	27	12	22.36	1
	27	23	22.17	1
16QAM	1	0	22.80	1
	1	25	22.91	1
	1	49	22.75	1
	25	0	21.37	2
	25	12	21.39	2
	25	25	21.43	2
	15	0	21.30	2
	15	17	21.41	2
	15	35	21.45	2
	27	0	21.33	2
	27	12	21.38	2
	27	23	21.41	2

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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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Table 8-13
LTE Band 5 Conducted Powers – 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.90	23.76	23.87	0
	1	12	23.85	23.74	23.92	0
	1	24	23.93	23.70	23.80	0
	12	0	22.71	22.81	22.79	1
	12	6	22.70	22.79	22.79	1
	12	13	22.71	22.77	22.75	1
	25	0	22.72	22.79	22.80	1
16QAM	1	0	22.93	22.93	22.80	1
	1	12	22.76	22.84	22.84	1
	1	24	22.98	22.84	22.88	1
	12	0	21.55	21.53	21.56	2
	12	6	21.52	21.55	21.53	2
	12	13	21.48	21.63	21.51	2
	25	0	21.46	21.59	21.55	2

Table 8-14
LTE Band 5 Conducted Powers – 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.66	23.75	23.71	0
	1	7	23.73	23.80	23.73	0
	1	14	23.67	23.74	23.59	0
	8	0	22.74	22.80	22.79	1
	8	4	22.74	22.79	22.75	1
	8	7	22.72	22.80	22.73	1
	15	0	22.74	22.81	22.77	1
16QAM	1	0	22.65	23.13	23.02	1
	1	7	22.74	22.91	22.93	1
	1	14	22.78	22.89	22.74	1
	8	0	21.53	21.67	21.48	2
	8	4	21.54	21.73	21.46	2
	8	7	21.53	21.72	21.47	2
	15	0	21.57	21.61	21.49	2

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Table 8-15
LTE Band 5 Conducted Powers – 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.70	23.77	23.85	0
	1	2	23.68	23.77	23.84	0
	1	5	23.71	23.78	23.82	0
	3	0	23.75	23.84	23.74	0
	3	2	23.75	23.84	23.72	0
	3	3	23.75	23.82	23.72	0
	6	0	22.73	22.80	22.77	1
16QAM	1	0	22.93	22.94	22.87	1
	1	2	22.69	23.04	22.64	1
	1	5	22.79	23.08	22.71	1
	3	0	22.70	22.81	22.57	1
	3	2	22.68	22.79	22.64	1
	3	3	22.66	22.85	22.61	1
	6	0	21.70	21.72	21.56	2

8.2.5 LTE Band 66

Table 8-16
LTE Band 66 Conducted Powers – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.75	22.46	22.38	0
	1	50	22.78	22.18	22.02	0
	1	99	22.82	22.22	22.11	0
	50	0	21.98	21.47	21.38	1
	50	25	21.95	21.62	21.44	1
	50	50	21.93	21.55	21.45	1
	100	0	21.94	21.60	21.50	1
	15	0	22.57	22.75	22.32	0
	15	42	22.61	22.04	22.05	0
	15	85	22.51	22.24	22.08	0
	27	0	21.95	21.97	21.66	1
	27	37	21.97	21.55	21.28	1
27	73	21.92	21.44	21.31	1	
16QAM	1	0	22.00	21.91	21.52	1
	1	50	22.00	21.57	21.46	1
	1	99	22.00	21.73	21.53	1
	15	0	21.56	21.50	21.08	1
	15	42	21.59	21.33	21.05	1
	15	85	21.64	21.39	21.11	1
	27	0	20.95	20.93	20.59	2
	27	37	20.99	20.80	20.56	2
	27	73	21.00	20.74	20.60	2

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Table 8-17
LTE Band 66 Conducted Powers – 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.38	22.38	22.36	0
	1	36	22.65	22.02	22.05	0
	1	74	22.52	22.09	22.04	0
	36	0	21.77	21.47	21.06	1
	36	18	21.88	21.55	21.11	1
	36	37	21.85	21.45	21.09	1
	75	0	21.97	21.63	21.25	1
	15	0	22.16	22.27	22.00	0
	15	30	22.32	22.08	22.01	0
	15	60	22.21	22.20	22.00	0
	27	0	21.61	21.47	21.23	1
	27	24	21.76	21.57	21.07	1
	27	48	21.68	21.43	21.29	1
16QAM	1	0	21.37	21.77	21.08	1
	1	36	21.52	21.43	21.41	1
	1	74	21.66	21.63	21.31	1
	15	0	21.22	21.25	21.56	1
	15	30	21.34	21.14	21.29	1
	15	60	21.31	21.18	21.05	1
	27	0	20.77	20.77	20.55	2
	27	24	20.85	20.85	20.60	2
	27	48	20.91	20.91	20.62	2

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Table 8-18
LTE Band 66 Conducted Powers – 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.41	22.39	22.07	0
	1	25	22.52	22.41	22.14	0
	1	49	22.67	22.40	22.12	0
	25	0	21.69	21.53	21.28	1
	25	12	21.73	21.58	21.42	1
	25	25	21.78	21.51	21.42	1
	50	0	21.77	21.60	21.48	1
	15	0	21.07	21.09	21.06	1
	15	17	21.1	21.00	21.04	1
	15	35	21.05	21.01	21.10	1
	27	0	21.68	21.61	21.38	1
	27	12	21.72	21.66	21.41	1
27	23	21.78	21.60	21.41	1	
16QAM	1	0	21.41	21.62	21.48	1
	1	25	21.48	21.36	21.42	1
	1	49	21.54	21.56	21.60	1
	25	0	20.50	20.37	20.38	2
	25	12	20.47	20.28	20.31	2
	25	25	20.60	20.33	20.38	2
	15	0	20.85	20.41	20.65	2
	15	17	20.86	20.83	20.69	2
	15	35	20.86	20.73	20.65	2
	27	0	20.86	20.80	20.55	2
	27	12	20.85	20.64	20.60	2
	27	23	20.91	20.74	20.62	2

Table 8-19
LTE Band 66 Conducted Powers – 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.57	22.27	22.02	0
	1	12	22.65	22.70	22.31	0
	1	24	22.69	22.66	22.28	0
	12	0	21.76	21.78	21.49	1
	12	6	21.84	21.76	21.48	1
	12	13	21.86	21.76	21.46	1
	25	0	21.87	21.76	21.49	1
16QAM	1	0	21.42	21.48	21.30	1
	1	12	21.51	21.45	21.26	1
	1	24	21.74	21.59	21.23	1
	12	0	20.35	20.56	20.54	2
	12	6	20.36	20.57	20.51	2
	12	13	20.36	20.61	20.57	2
	25	0	20.81	20.69	20.67	2

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Table 8-20
LTE Band 66 Conducted Powers – 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.78	22.25	22.18	0
	1	7	22.86	22.93	22.11	0
	1	14	22.89	22.88	22.00	0
	8	0	22.00	21.95	21.91	1
	8	4	21.99	21.93	21.89	1
	8	7	22.00	22.00	21.87	1
	15	0	21.97	22.00	21.91	1
16QAM	1	0	21.53	21.31	21.30	1
	1	7	21.30	21.34	21.56	1
	1	14	21.47	21.41	21.36	1
	8	0	20.75	20.75	20.68	2
	8	4	20.76	20.67	20.45	2
	8	7	20.83	20.73	20.71	2
	15	0	20.86	20.73	20.70	2

Table 8-21
LTE Band 66 Conducted Powers – 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.87	22.43	22.07	0
	1	2	22.86	22.92	22.00	0
	1	5	22.89	22.93	22.04	0
	3	0	22.65	22.65	22.33	0
	3	2	22.68	22.64	22.23	0
	3	3	22.42	22.61	22.22	0
	6	0	21.72	21.81	21.57	1
16QAM	1	0	21.36	21.63	21.32	1
	1	2	21.52	21.50	21.21	1
	1	5	21.48	21.43	21.21	1
	3	0	21.53	21.45	21.18	1
	3	2	21.49	21.47	21.20	1
	3	3	21.50	21.46	21.20	1
	6	0	20.90	20.81	20.85	2

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LTE Band 25

Table 8-22
LTE Band 25 Conducted Powers – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.73	22.78	22.81	0
	1	50	22.78	22.78	22.80	0
	1	99	22.80	22.90	22.64	0
	50	0	21.77	21.85	21.77	1
	50	25	21.76	21.82	21.83	1
	50	50	21.79	21.92	21.82	1
	100	0	21.85	21.85	21.90	1
	15	0	22.76	22.84	22.73	0
	15	42	22.76	22.81	22.77	0
	15	85	22.79	22.83	22.66	0
	27	0	21.73	21.83	21.74	1
	27	37	21.77	21.82	21.76	1
27	73	21.77	21.82	21.68	1	
16QAM	1	0	21.97	21.83	21.78	1
	1	50	21.96	22.00	21.84	1
	1	99	21.98	21.96	21.84	1
	15	0	21.71	21.70	21.61	1
	15	42	21.67	21.78	21.66	1
	15	85	21.62	21.76	21.58	1
	27	0	20.66	20.61	20.51	2
	27	37	20.67	20.70	20.64	2
27	73	20.59	20.68	20.61	2	

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Table 8-23
LTE Band 25 Conducted Powers – 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.68	22.68	22.80	0
	1	36	22.77	22.86	23.00	0
	1	74	22.70	22.77	22.74	0
	36	0	21.86	21.85	21.86	1
	36	18	21.83	22.00	21.89	1
	36	37	21.87	21.95	21.80	1
	75	0	21.92	22.00	22.00	1
	15	0	22.83	22.86	22.70	0
	15	30	22.88	22.99	22.93	0
	15	60	22.84	22.98	22.63	0
	27	0	21.89	21.86	21.82	1
	27	24	21.82	21.97	21.92	1
27	48	21.84	21.94	21.73	1	
16QAM	1	0	21.74	21.45	21.74	1
	1	36	21.69	21.83	21.87	1
	1	74	21.74	21.69	21.59	1
	15	0	21.40	21.43	21.38	1
	15	30	21.47	21.57	21.53	1
	15	60	21.47	21.58	21.32	1
	27	0	20.45	20.45	20.44	2
	27	24	20.42	20.54	20.50	2
27	48	20.49	20.54	20.34	2	

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Table 8-24
LTE Band 25 Conducted Powers – 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.61	22.79	22.80	0
	1	25	22.69	22.87	22.66	0
	1	49	22.75	22.88	22.51	0
	25	0	21.86	21.91	21.90	1
	25	12	21.85	21.96	21.78	1
	25	25	21.85	21.96	21.64	1
	50	0	21.87	21.93	21.87	1
	15	0	21.77	21.84	21.87	1
	15	17	21.84	21.96	21.76	1
	15	35	21.87	21.94	21.58	1
	27	0	21.83	21.92	21.86	1
27	12	21.83	21.90	21.76	1	
27	23	21.83	21.96	21.66	1	
16QAM	1	0	21.57	21.94	21.93	1
	1	25	21.69	21.88	21.91	1
	1	49	21.63	21.92	22.00	1
	25	0	20.48	20.61	20.48	2
	25	12	20.52	20.64	20.42	2
	25	25	20.52	20.66	20.39	2
	15	0	20.39	20.57	20.49	2
	15	17	20.43	20.66	20.41	2
	15	35	20.51	20.63	20.35	2
	27	0	20.49	20.51	20.47	2
	27	12	20.47	20.58	20.41	2
27	23	20.49	20.63	20.37	2	

Table 8-25
LTE Band 25 Conducted Powers – 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.74	22.95	22.60	0
	1	12	22.83	22.92	22.50	0
	1	24	22.83	23.00	22.59	0
	12	0	21.66	21.90	21.67	1
	12	6	21.75	21.91	21.60	1
	12	13	21.79	21.89	21.59	1
	25	0	21.76	21.87	21.65	1
16QAM	1	0	21.51	21.93	21.67	1
	1	12	21.62	21.93	21.51	1
	1	24	21.88	22.00	21.49	1
	12	0	20.70	20.66	20.45	2
	12	6	20.71	20.64	20.50	2
	12	13	20.56	20.56	20.43	2
	25	0	20.43	20.55	20.36	2

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Table 8-26
LTE Band 25 Conducted Powers – 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.52	22.85	22.46	0
	1	7	22.60	22.87	22.50	0
	1	14	22.67	22.81	22.51	0
	8	0	21.67	21.88	21.57	1
	8	4	21.67	21.84	21.55	1
	8	7	21.77	21.87	21.57	1
	15	0	21.70	21.84	21.57	1
16QAM	1	0	21.34	21.78	21.72	1
	1	7	21.54	21.91	21.62	1
	1	14	21.63	21.86	21.54	1
	8	0	20.57	20.56	20.36	2
	8	4	20.37	20.57	20.38	2
	8	7	20.30	20.54	20.31	2
	15	0	20.30	20.52	20.30	2

Table 8-27
LTE Band 25 Conducted Powers – 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.56	22.89	22.67	0
	1	2	22.53	22.86	22.68	0
	1	5	22.58	22.85	22.68	0
	3	0	22.69	22.92	22.54	0
	3	2	22.68	22.89	22.58	0
	3	3	22.63	22.91	22.60	0
	6	0	21.63	21.88	21.56	1
16QAM	1	0	21.28	22.00	21.55	1
	1	2	21.49	21.98	21.35	1
	1	5	21.59	21.97	21.35	1
	3	0	21.40	21.60	21.36	1
	3	2	21.38	21.57	21.30	1
	3	3	21.37	21.57	21.34	1
	6	0	20.35	20.56	20.24	2

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LTE Band 7

Table 8-28
LTE Band 7 Conducted Powers – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	21.96	22.43	22.12	0
	1	50	22.28	22.36	22.23	0
	1	99	22.45	22.40	22.44	0
	50	0	21.27	21.40	21.28	1
	50	25	21.49	21.32	21.31	1
	50	50	21.50	21.26	21.43	1
	100	0	21.49	21.46	21.49	1
	15	0	22.15	22.45	22.05	0
	15	42	22.37	22.27	22.23	0
	15	85	22.49	22.28	22.50	0
	27	0	21.14	21.44	21.10	1
	27	37	21.36	21.28	21.20	1
27	73	21.50	21.26	21.47	1	
16QAM	1	0	21.15	21.27	21.21	1
	1	50	21.20	21.09	21.34	1
	1	99	21.40	21.14	21.50	1
	15	0	20.80	20.93	20.88	1
	15	42	20.74	20.77	21.01	1
	15	85	20.80	20.80	21.30	1
	27	0	20.14	20.25	20.20	2
	27	37	20.15	20.20	20.32	2
27	73	20.17	20.17	20.47	2	

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Table 8-29
LTE Band 7 Conducted Powers – 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.15	22.13	22.14	0
	1	36	22.16	22.05	22.35	0
	1	74	22.28	22.07	22.50	0
	36	0	21.11	21.17	21.27	1
	36	18	21.08	21.11	21.42	1
	36	37	21.09	21.09	21.50	1
	75	0	21.24	21.20	21.50	1
	15	0	22.03	22.16	22.21	0
	15	30	22.04	22.11	22.44	0
	15	60	22.04	22.10	22.50	0
	27	0	21.08	21.16	21.25	1
	27	24	21.07	21.11	21.42	1
27	48	21.03	21.08	21.50	1	
16QAM	1	0	21.50	21.50	21.50	1
	1	36	21.50	21.50	21.50	1
	1	74	21.50	21.49	21.50	1
	15	0	21.15	21.24	21.28	1
	15	30	21.13	21.17	21.46	1
	15	60	21.16	21.17	21.50	1
	27	0	20.14	20.19	20.30	2
	27	24	20.07	20.15	20.49	2
27	48	20.08	20.11	20.50	2	

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Table 8-30
LTE Band 7 Conducted Powers – 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.00	22.18	22.28	0
	1	25	22.03	22.07	22.46	0
	1	49	22.07	22.11	22.50	0
	25	0	21.11	21.12	21.43	1
	25	12	21.12	21.09	21.49	1
	25	25	21.08	21.10	21.50	1
	50	0	21.16	21.12	21.50	1
	15	0	21.08	21.17	21.38	1
	15	17	21.12	21.09	21.49	1
	15	35	21.09	21.10	21.50	1
	27	0	21.09	21.09	21.40	1
	27	12	21.11	21.07	21.49	1
27	23	21.07	21.09	21.50	1	
16QAM	1	0	21.26	21.50	21.50	1
	1	25	21.46	21.50	21.50	1
	1	49	21.41	21.45	21.44	1
	25	0	20.14	20.21	20.50	2
	25	12	20.12	20.12	20.50	2
	25	25	20.11	20.19	20.45	2
	15	0	20.18	20.27	20.50	2
	15	17	20.15	20.20	20.50	2
	15	35	20.10	20.17	20.44	2
	27	0	20.14	20.14	20.40	2
	27	12	20.13	20.05	20.45	2
	27	23	20.09	20.19	20.53	2

Table 8-31
LTE Band 7 Conducted Powers – 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	22.13	22.23	22.48	0
	1	12	22.13	22.18	22.50	0
	1	24	22.16	22.23	22.50	0
	12	0	21.06	21.08	21.50	1
	12	6	21.06	21.06	21.50	1
	12	13	21.07	21.05	21.50	1
	25	0	21.08	21.08	21.50	1
16QAM	1	0	21.30	21.50	21.50	1
	1	12	21.50	21.50	21.50	1
	1	24	21.50	21.50	21.50	1
	12	0	20.21	20.17	20.46	2
	12	6	20.10	20.18	20.48	2
	12	13	20.14	20.14	20.48	2
	25	0	20.11	20.14	20.50	2

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Table 8-32
LTE Band 7 Reduced Conducted Powers – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	19.28	19.84	19.26	0
	1	50	19.62	19.64	19.38	0
	1	99	19.72	19.58	19.69	0
	50	0	18.37	18.69	18.37	1
	50	25	18.58	18.51	18.52	1
	50	50	18.66	18.46	18.60	1
	100	0	18.59	18.68	18.62	1
	15	0	19.50	19.63	19.27	0
	15	42	19.55	19.53	19.47	0
	15	85	19.66	19.48	19.62	0
	27	0	18.50	18.60	18.28	1
	27	37	18.54	18.49	18.47	1
27	73	18.63	18.40	18.60	1	
16QAM	1	0	18.92	19.23	18.96	1
	1	50	19.28	19.03	19.04	1
	1	99	18.90	19.02	18.60	1
	15	0	18.49	18.88	18.59	1
	15	42	18.81	18.76	18.75	1
	15	85	18.50	18.67	18.92	1
	27	0	17.46	17.80	17.56	2
	27	37	17.78	17.69	17.79	2
27	73	17.50	17.59	17.91	2	

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Table 8-33
LTE Band 7 Reduced Conducted Powers – 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	19.50	19.51	19.43	0
	1	36	19.43	19.42	19.68	0
	1	74	19.64	19.32	19.82	0
	36	0	18.30	18.54	18.43	1
	36	18	18.47	18.48	18.57	1
	36	37	18.52	18.42	18.63	1
	75	0	18.60	18.57	18.73	1
	15	0	19.20	19.56	19.35	0
	15	30	19.49	19.50	19.57	0
	15	60	19.55	19.39	19.55	0
	27	0	18.25	18.55	18.39	1
	27	24	18.49	18.48	18.58	1
27	48	18.54	18.40	18.65	1	
16QAM	1	0	18.87	19.32	19.10	1
	1	36	19.03	19.22	19.31	1
	1	74	18.60	18.97	18.90	1
	15	0	18.69	18.91	18.75	1
	15	30	18.91	18.85	18.95	1
	15	60	18.95	18.63	19.05	1
	27	0	17.69	17.78	17.73	2
	27	24	17.85	17.83	17.94	2
27	48	17.90	17.61	17.97	2	

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Table 8-34
LTE Band 7 Reduced Conducted Powers – 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	19.43	19.82	19.65	0
	1	25	19.50	19.68	19.76	0
	1	49	19.70	19.66	19.87	0
	25	0	18.50	18.73	18.73	1
	25	12	18.55	18.71	18.76	1
	25	25	18.69	18.69	18.79	1
	50	0	18.61	18.73	18.81	1
	15	0	18.48	18.80	18.69	1
	15	17	18.55	18.71	18.75	1
	15	35	18.72	18.69	18.82	1
	27	0	18.51	18.75	18.71	1
	27	12	18.56	18.71	18.76	1
27	23	18.68	18.70	18.79	1	
16QAM	1	0	18.84	19.38	19.25	1
	1	25	19.00	19.24	19.42	1
	1	49	19.17	18.96	19.45	1
	25	0	17.76	17.89	17.89	2
	25	12	17.79	17.77	17.93	2
	25	25	17.85	17.75	18.03	2
	15	0	17.76	17.88	17.93	2
	15	17	17.78	17.88	17.96	2
	15	35	17.85	17.69	18.06	2
	27	0	17.78	17.85	17.91	2
	27	12	17.79	17.73	17.96	2
	27	23	17.85	17.81	18.05	2

Table 8-35
LTE Band 7 Reduced Conducted Powers – 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Design MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	19.55	19.57	19.57	0
	1	12	19.56	19.51	19.64	0
	1	24	19.64	19.49	19.81	0
	12	0	18.38	18.61	18.81	1
	12	6	18.39	18.58	18.79	1
	12	13	18.43	18.57	18.84	1
	25	0	18.42	18.59	18.80	1
16QAM	1	0	19.05	19.22	19.22	1
	1	12	19.20	19.21	19.24	1
	1	24	18.97	19.21	19.44	1
	12	0	17.70	17.85	17.99	2
	12	6	17.70	17.81	18.01	2
	12	13	17.74	17.80	18.06	2
	25	0	17.70	17.79	17.99	2

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LTE Band 41

Table 8-36
LTE Band 41 Conducted Powers – 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	Design 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	22.85	23.26	23.33	23.17	22.99	0
	1	50	22.72	23.26	23.45	23.03	23.01	0
	1	99	22.82	23.24	23.44	23.00	22.99	0
	50	0	21.80	21.93	22.32	22.07	22.01	1
	50	25	21.73	21.85	22.29	21.97	22.02	1
	50	50	21.79	21.91	22.26	21.96	22.02	1
	100	0	21.90	21.90	22.30	22.05	22.09	1
	15	0	22.50	22.51	22.91	22.62	22.62	0
	15	42	22.46	22.46	22.88	22.59	22.59	0
	15	85	22.48	22.63	22.92	22.67	22.62	0
	27	0	22.09	22.18	22.32	22.04	21.95	1
	27	37	22.10	22.15	22.30	22.02	21.95	1
27	73	22.15	22.12	22.29	22.02	21.94	1	
16QAM	1	0	22.10	22.09	22.33	22.50	22.28	1
	1	50	21.85	22.15	22.35	22.49	22.25	1
	1	99	21.82	22.26	22.38	22.46	22.27	1
	15	0	22.04	22.02	22.50	22.45	22.30	1
	15	42	21.79	21.99	22.43	22.42	22.19	1
	15	85	21.76	22.21	22.48	22.41	22.26	1
	27	0	20.97	20.91	21.46	21.42	21.24	2
	27	37	20.83	21.01	21.50	21.34	21.21	2
27	73	20.77	21.14	21.49	21.35	21.25	2	

Table 8-37
LTE Band 41 Conducted Powers – 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Design 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	23.15	23.16	23.43	23.31	23.13	0
	1	36	23.05	23.14	23.48	23.19	23.13	0
	1	74	23.03	23.28	23.45	23.18	23.13	0
	36	0	21.95	22.05	22.32	22.21	21.96	1
	36	18	21.92	22.06	22.33	22.16	21.98	1
	36	37	21.91	22.11	22.24	22.16	22.00	1
	75	0	22.02	22.11	22.30	22.18	22.01	1
	15	0	22.96	23.07	23.25	23.22	22.98	0
	15	30	22.92	23.12	23.31	23.20	23.01	0
	15	60	22.85	23.15	23.28	23.18	23.02	0
	27	0	21.90	22.10	22.26	22.22	21.97	1
	27	24	21.87	22.12	22.29	22.17	21.98	1
27	48	21.84	22.18	22.25	22.14	21.99	1	
16QAM	1	0	22.28	21.81	22.42	22.49	22.22	1
	1	36	22.19	21.91	22.50	22.50	22.35	1
	1	74	22.12	22.04	22.49	22.47	22.16	1
	15	0	22.10	22.01	22.39	22.46	22.32	1
	15	30	22.05	22.05	22.50	22.43	22.40	1
	15	60	21.98	22.05	22.43	22.29	22.24	1
	27	0	21.07	20.99	21.42	21.40	21.33	2
	27	24	21.06	21.05	21.50	21.39	21.37	2
	27	48	20.96	21.03	21.39	21.33	21.27	2

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Table 8-38
LTE Band 41 Conducted Powers – 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Design 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	23.07	23.14	23.36	23.27	23.17	0
	1	25	23.01	23.14	23.36	23.23	23.17	0
	1	49	23.03	23.26	23.35	23.24	23.21	0
	25	0	21.88	22.05	22.25	22.20	22.02	1
	25	12	21.88	22.03	22.26	22.13	21.98	1
	25	25	21.87	22.09	22.24	22.14	22.01	1
	50	0	21.90	22.09	22.30	22.17	22.01	1
	15	0	21.94	22.06	22.28	22.21	22.00	1
	15	17	21.88	22.06	22.31	22.15	22.00	1
	15	35	21.89	22.12	22.28	22.16	22.02	1
	27	0	21.91	22.08	22.26	22.20	21.99	1
	27	12	21.89	22.02	22.28	22.13	21.99	1
27	23	21.89	22.06	22.25	22.15	22.01	1	
16QAM	1	0	21.94	21.92	22.32	22.29	22.38	1
	1	25	21.78	21.88	22.31	22.32	22.29	1
	1	49	21.84	21.99	22.24	22.36	22.24	1
	25	0	20.80	20.81	21.16	21.17	21.06	2
	25	12	20.73	20.77	21.15	21.11	21.13	2
	25	25	20.71	20.79	21.19	21.09	21.05	2
	15	0	20.79	20.78	21.17	21.20	21.15	2
	15	17	20.76	20.76	21.20	21.12	21.16	2
	15	35	20.68	20.80	21.21	21.14	21.08	2
	27	0	20.78	20.75	21.14	21.16	21.12	2
	27	12	20.75	20.73	21.15	21.13	21.11	2
	27	23	20.72	20.74	21.16	21.10	21.02	2

Table 8-39
LTE Band 41 Conducted Powers – 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Design 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	23.01	23.17	23.35	23.22	23.14	0
	1	12	23.00	23.14	23.31	23.07	23.06	0
	1	24	23.03	23.21	23.28	23.10	23.09	0
	12	0	21.94	22.16	22.29	22.20	22.00	1
	12	6	21.94	22.10	22.30	22.17	21.99	1
	12	13	21.93	22.14	22.33	22.20	22.00	1
	25	0	21.96	22.11	22.31	22.20	21.99	1
16QAM	1	0	21.72	21.68	22.21	22.03	21.85	1
	1	12	21.62	21.57	22.09	21.94	21.89	1
	1	24	21.65	21.62	22.18	21.86	21.82	1
	12	0	20.58	20.67	21.22	21.02	20.86	2
	12	6	20.54	20.62	21.19	20.89	20.83	2
	12	13	20.53	20.61	21.23	20.88	20.81	2
	25	0	20.55	20.65	21.22	20.92	20.40	2

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Table 8-40
LTE Band 41 Reduced Conducted Powers – 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	Design 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	22.10	22.22	22.38	22.19	22.11	0
	1	50	22.09	21.95	22.32	22.11	22.07	0
	1	99	22.28	22.06	22.28	22.07	22.09	0
	50	0	21.05	20.84	21.40	21.13	21.04	1
	50	25	21.06	20.80	21.33	21.12	21.05	1
	50	50	21.15	20.95	21.35	21.08	21.06	1
	100	0	21.18	20.89	21.35	21.14	21.13	1
	15	0	22.02	21.84	22.40	22.13	22.10	0
	15	42	22.04	21.76	22.37	22.13	22.02	0
	15	85	22.15	21.91	22.34	22.14	22.10	0
	27	0	21.01	20.79	21.36	21.10	21.07	1
	27	37	21.02	20.73	21.34	21.06	21.03	1
27	73	21.11	20.83	21.27	21.07	21.03	1	
16QAM	1	0	21.12	21.32	21.50	21.36	21.41	1
	1	50	21.04	21.28	21.50	21.37	21.25	1
	1	99	21.16	21.37	21.50	21.43	21.28	1
	15	0	21.05	21.17	21.49	21.27	21.24	1
	15	42	21.00	21.13	21.50	21.23	21.21	1
	15	85	21.03	21.25	21.47	21.29	21.20	1
	27	0	19.97	20.16	20.50	20.19	20.20	2
	27	37	19.97	20.09	20.50	20.20	20.22	2
27	73	19.96	20.18	20.49	20.23	20.21	2	

Table 8-41
LTE Band 41 Reduced Conducted Powers – 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Design 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	22.21	22.29	22.50	22.38	22.29	0
	1	36	22.31	22.38	22.50	22.44	22.35	0
	1	74	22.22	22.44	22.48	22.40	22.29	0
	36	0	21.15	21.25	21.50	21.34	21.30	1
	36	18	21.18	21.27	21.46	21.32	21.33	1
	36	37	21.14	21.29	21.47	21.32	21.30	1
	75	0	21.23	21.21	21.50	21.32	21.33	1
	15	0	22.13	22.14	22.50	22.32	22.28	0
	15	30	22.22	22.24	22.49	22.37	22.35	0
	15	60	22.13	22.27	22.50	22.32	22.22	0
	27	0	21.11	21.16	21.50	21.33	21.26	1
	27	24	21.18	21.23	21.50	21.32	21.31	1
27	48	21.12	21.25	21.50	21.30	21.26	1	
16QAM	1	0	21.35	21.15	21.50	21.46	21.35	1
	1	36	21.46	21.20	21.47	21.50	21.50	1
	1	74	21.22	21.34	21.50	21.50	21.50	1
	15	0	21.12	21.18	21.48	21.28	21.28	1
	15	30	21.21	21.23	21.50	21.33	21.35	1
	15	60	21.14	21.27	21.50	21.33	21.28	1
	27	0	20.10	20.20	20.50	20.30	20.29	2
	27	24	20.19	20.25	20.49	20.33	20.29	2
	27	48	20.20	20.28	20.50	20.31	20.25	2

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Table 8-42
LTE Band 41 Reduced Conducted Powers – 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Design 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	22.35	22.37	22.50	22.50	22.38	0
	1	25	22.31	22.37	22.50	22.50	22.39	0
	1	49	22.31	22.46	22.49	22.50	22.40	0
	25	0	21.20	21.30	21.49	21.35	21.30	1
	25	12	21.20	21.20	21.39	21.30	21.29	1
	25	25	21.20	21.27	21.39	21.32	21.30	1
	50	0	21.24	21.26	21.50	21.32	21.32	1
	15	0	21.22	21.25	21.48	21.35	21.32	1
	15	17	21.23	21.24	21.42	21.32	21.32	1
	15	35	21.22	21.29	21.39	21.35	21.32	1
	27	0	21.21	21.25	21.46	21.34	21.30	1
	27	12	21.20	21.24	21.39	21.29	21.24	1
27	23	21.21	21.27	21.39	21.32	21.25	1	
16QAM	1	0	21.09	21.26	21.50	21.50	21.41	1
	1	25	21.13	21.19	21.50	21.42	21.47	1
	1	49	21.22	21.17	21.50	21.45	21.35	1
	25	0	19.88	20.07	20.32	20.12	20.17	2
	25	12	19.87	20.02	20.32	20.07	20.18	2
	25	25	19.91	20.03	20.33	20.06	20.13	2
	15	0	19.87	20.08	20.30	20.20	20.20	2
	15	17	19.89	20.01	20.38	20.15	20.17	2
	15	35	19.92	20.01	20.39	20.16	20.09	2
	27	0	19.83	20.04	20.32	20.13	20.16	2
	27	12	19.84	20.00	20.33	20.07	20.15	2
	27	23	19.87	19.97	20.33	20.05	20.11	2

Table 8-43
LTE Band 41 Reduced Conducted Powers – 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	Design 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	22.28	22.32	22.50	22.37	22.44	0
	1	12	22.23	22.29	22.49	22.34	22.43	0
	1	24	22.26	22.36	22.50	22.37	22.44	0
	12	0	21.17	21.30	21.50	21.42	21.35	1
	12	6	21.17	21.26	21.44	21.35	21.33	1
	12	13	21.18	21.28	21.44	21.35	21.33	1
	25	0	21.19	21.26	21.46	21.35	21.31	1
16QAM	1	0	21.33	21.35	21.50	21.50	21.43	1
	1	12	21.17	21.41	21.50	21.26	21.24	1
	1	24	21.09	21.43	21.50	21.41	21.40	1
	12	0	20.34	20.50	20.49	20.45	20.32	2
	12	6	20.25	20.43	20.49	20.40	20.35	2
	12	13	20.26	20.43	20.50	20.41	20.29	2
	25	0	20.24	20.50	20.50	20.43	20.30	2

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8.3 WLAN Conducted Powers

Table 8-44
2.4 GHz WLAN Average RF Power

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	17.94	15.92	15.94
2422	3		17.49	17.49
2437	6	18.06	17.54	17.44
2452	9		17.53	17.52
2462	11	17.95	12.51	12.47

Table 8-45
5 GHz WLAN Maximum Average RF Power

5GHz (20MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11a	802.11n
		Average	Average
5180	36	15.03	14.95
5200	40	15.05	15.09
5220	44	15.04	15.07
5240	48	15.13	15.04
5260	52	15.12	15.02
5280	56	15.10	15.08
5300	60	14.95	15.03
5320	64	14.96	15.00
5500	100	15.01	14.90
5600	120	15.09	14.91
5620	124	15.00	15.05
5720	144	15.08	15.08
5745	149	15.09	15.09
5785	157	15.07	15.01
5825	165	15.12	14.95

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.

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- 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.

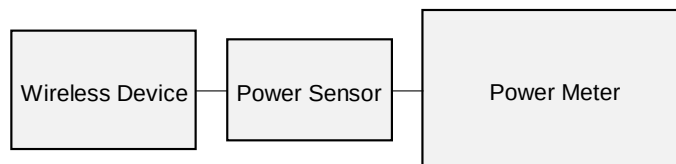


Figure 8-2
Power Measurement Setup

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8.4 Bluetooth Conducted Powers

Table 8-46
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.15	16.406
2441	GFSK	1.0	39	12.08	16.144
2480	GFSK	1.0	78	12.43	17.498

Note1: The bolded data rates and channel above were tested for SAR.

Note2: Bluetooth was evaluated with a test mode with 100% transmission duty factor.

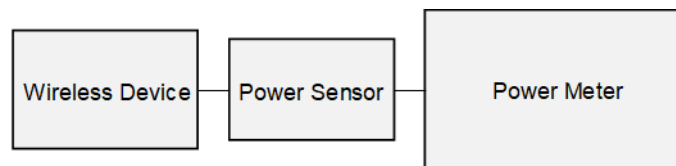


Figure 8-3
Power Measurement Setup

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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
6/25/2020	750H	21.7	680	0.879	42.582	0.888	42.305	-1.01%	0.65%
			695	0.883	42.564	0.889	42.227	-0.67%	0.80%
			700	0.884	42.558	0.889	42.201	-0.56%	0.85%
			710	0.887	42.539	0.890	42.149	-0.34%	0.93%
			720	0.890	42.517	0.891	42.097	-0.11%	1.00%
			725	0.892	42.504	0.893	41.994	-0.11%	1.21%
			740	0.897	42.457	0.894	41.916	0.34%	1.29%
			755	0.903	42.424	0.895	41.838	0.89%	1.40%
			770	0.909	42.403	0.895	41.838	1.56%	1.35%
			785	0.914	42.372	0.896	41.760	2.01%	1.47%
			800	0.919	42.337	0.897	41.682	2.45%	1.57%
			815	0.866	40.502	0.899	41.604	-3.61%	-2.65%
6/26/2020	835H	23.0	820	0.871	40.436	0.899	41.578	-3.11%	-2.75%
			835	0.885	40.251	0.900	41.500	-1.67%	-3.01%
			850	0.898	40.081	0.916	41.500	-1.97%	-3.42%
			900	0.861	40.535	0.897	41.682	-4.01%	-2.75%
6/29/2020	835H	21.6	820	0.868	40.483	0.899	41.578	-3.45%	-2.63%
			835	0.873	40.453	0.900	41.500	-3.00%	-2.52%
			850	0.878	40.425	0.916	41.500	-4.15%	-2.59%
			820	0.884	40.923	0.899	41.578	-1.67%	-1.58%
7/1/2020	835H	21.8	835	0.890	40.887	0.900	41.500	-1.11%	-1.48%
			850	0.895	40.860	0.916	41.500	-2.29%	-1.54%
			1710	1.335	39.277	1.348	40.142	-0.96%	-2.15%
7/1/2020	1750H	21.1	1750	1.359	39.227	1.371	40.079	-0.88%	-2.13%
			1790	1.384	39.164	1.394	40.016	-0.72%	-2.13%
			1710	1.334	40.526	1.348	40.142	-1.04%	0.96%
7/7/2020	1750H	22.0	1750	1.360	40.469	1.371	40.079	-0.80%	0.97%
			1790	1.383	40.413	1.394	40.016	-0.79%	0.99%
			1850	1.375	39.162	1.400	40.000	-1.79%	-2.10%
6/24/2020	1900H	22.0	1880	1.407	39.019	1.400	40.000	0.50%	-2.45%
			1910	1.437	38.895	1.400	40.000	2.64%	-2.76%
			1850	1.399	38.966	1.400	40.000	-0.07%	-2.59%
6/29/2020	1900H	21.1	1880	1.431	38.823	1.400	40.000	2.21%	-2.94%
			1910	1.461	38.698	1.400	40.000	4.36%	-3.26%
			2400	1.830	39.077	1.756	39.289	4.21%	-0.54%
7/9/2020	2450H	22.6	2450	1.885	38.908	1.800	39.200	4.72%	-0.74%
			2500	1.944	38.712	1.855	39.136	4.80%	-1.08%
			2550	1.999	38.517	1.909	39.073	4.71%	-1.42%
			2600	2.056	38.327	1.964	39.009	4.68%	-1.75%
			2650	2.110	38.122	2.018	38.945	4.56%	-2.11%
			2700	2.166	37.934	2.073	38.882	4.49%	-2.44%
			2400	1.827	38.770	1.756	39.289	4.04%	-1.32%
			2450	1.877	38.603	1.800	39.200	4.28%	-1.52%
7/22/2020	2450H	22.0	2500	1.938	38.416	1.855	39.136	4.47%	-1.84%
			2400	1.791	38.542	1.756	39.289	1.99%	-1.90%
			2450	1.845	38.397	1.800	39.200	2.50%	-2.05%
7/26/2020	2450H	21.8	2500	1.900	38.206	1.855	39.136	2.43%	-2.38%
			2400	1.778	39.592	1.756	39.289	1.25%	0.77%
			2450	1.833	39.442	1.800	39.200	1.83%	0.62%
8/19/2020	2450H	23.5	2500	1.889	39.258	1.855	39.136	1.83%	0.31%
			2550	1.943	39.078	1.909	39.073	1.78%	0.01%
			2600	1.999	38.901	1.964	39.009	1.78%	-0.28%
			2650	2.053	38.720	2.018	38.945	1.73%	-0.58%
			2700	2.108	38.534	2.073	38.882	1.69%	-0.90%
			5180	4.454	36.161	4.635	36.009	-3.91%	0.42%
			5200	4.479	36.126	4.655	35.986	-3.78%	0.39%
			5220	4.495	36.099	4.676	35.963	-3.87%	0.38%
07/20/2020	5200H-5800H	22.0	5240	4.520	36.059	4.696	35.940	-3.75%	0.33%
			5260	4.541	36.042	4.717	35.917	-3.73%	0.35%
			5280	4.557	36.025	4.737	35.894	-3.80%	0.36%
			5300	4.572	35.990	4.758	35.871	-3.91%	0.33%
			5320	4.604	35.981	4.778	35.849	-3.64%	0.37%
			5500	4.773	35.742	4.963	35.643	-3.83%	0.28%
			5520	4.801	35.687	4.983	35.620	-3.65%	0.19%
			5540	4.819	35.666	5.004	35.597	-3.70%	0.19%
			5560	4.839	35.628	5.024	35.574	-3.68%	0.15%
			5580	4.863	35.615	5.045	35.551	-3.61%	0.18%
			5600	4.884	35.588	5.065	35.529	-3.57%	0.17%
			5620	4.903	35.563	5.086	35.506	-3.60%	0.16%
			5640	4.926	35.526	5.106	35.483	-3.53%	0.12%
			5660	4.944	35.520	5.127	35.460	-3.57%	0.17%
			5680	4.968	35.486	5.147	35.437	-3.48%	0.14%
			5700	4.989	35.452	5.168	35.414	-3.46%	0.11%
			5745	5.036	35.421	5.214	35.363	-3.41%	0.16%
			5765	5.063	35.403	5.234	35.340	-3.27%	0.18%
			5785	5.074	35.352	5.255	35.317	-3.44%	0.10%
			5800	5.098	35.335	5.270	35.300	-3.26%	0.10%
			5805	5.105	35.325	5.275	35.294	-3.22%	0.09%
			5825	5.125	35.295	5.296	35.271	-3.23%	0.07%

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Table 9-2
Measured Body 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
7/6/2020	750B	20.6	680	0.919	53.089	0.958	55.804	-4.07%	-4.87%
			695	0.923	53.043	0.959	55.745	-3.75%	-4.85%
			700	0.924	53.049	0.959	55.726	-3.65%	-4.80%
			710	0.927	53.006	0.960	55.687	-3.44%	-4.81%
			720	0.930	53.015	0.961	55.648	-3.23%	-4.73%
			725	0.933	53.032	0.961	55.629	-2.91%	-4.67%
			740	0.941	52.979	0.963	55.570	-2.28%	-4.66%
			755	0.947	52.939	0.964	55.512	-1.76%	-4.64%
			770	0.952	52.931	0.965	55.453	-1.35%	-4.55%
			785	0.957	52.898	0.966	55.395	-0.93%	-4.51%
7/6/2020	850B	20.2	800	0.962	52.837	0.967	55.336	-0.52%	-4.52%
			820	0.952	53.272	0.969	55.258	-1.75%	-3.59%
			835	0.966	53.131	0.970	55.200	-0.41%	-3.75%
7/8/2020	850B	22.0	850	0.981	52.989	0.988	55.154	-0.71%	-3.93%
			820	0.965	53.796	0.969	55.258	-0.41%	-2.65%
			835	0.980	53.645	0.970	55.200	1.03%	-2.82%
8/19/2020	850B	20.9	850	0.995	53.497	0.988	55.154	0.71%	-3.00%
			800	0.948	54.210	0.967	55.336	-1.96%	-2.03%
			820	0.968	54.002	0.969	55.258	-0.10%	-2.27%
6/26/2020	1750B	21.3	835	0.983	53.847	0.970	55.200	1.34%	-2.45%
			850	0.998	53.699	0.988	55.154	1.01%	-2.64%
			1710	1.440	51.275	1.463	53.537	-1.57%	-4.23%
6/30/2020	1750B	21.0	1750	1.467	51.256	1.488	53.432	-1.41%	-4.07%
			1790	1.495	51.217	1.514	53.326	-1.25%	-3.95%
			1710	1.450	51.565	1.463	53.537	-0.89%	-3.68%
6/26/2020	1900B	21.3	1750	1.475	51.528	1.488	53.432	-0.87%	-3.56%
			1790	1.502	51.475	1.514	53.326	-0.79%	-3.47%
			1850	1.538	51.144	1.520	53.300	1.18%	-4.05%
6/30/2020	1900B	21.0	1880	1.560	51.100	1.520	53.300	2.63%	-4.13%
			1910	1.582	51.067	1.520	53.300	4.08%	-4.19%
			1850	1.542	51.373	1.520	53.300	1.45%	-3.62%
6/30/2020	2450B	21.7	1880	1.563	51.333	1.520	53.300	2.83%	-3.69%
			1910	1.584	51.301	1.520	53.300	4.21%	-3.75%
			2300	1.821	52.099	1.809	52.900	0.66%	-1.51%
			2310	1.835	52.058	1.816	52.887	1.05%	-1.57%
			2320	1.850	52.025	1.826	52.873	1.31%	-1.60%
			2400	1.960	51.734	1.902	52.767	3.05%	-1.96%
			2450	2.031	51.580	1.950	52.700	4.15%	-2.13%
			2500	2.100	51.373	2.021	52.636	3.91%	-2.40%
			2550	2.172	51.215	2.092	52.573	3.82%	-2.58%
			2600	2.245	51.012	2.163	52.509	3.79%	-2.85%
7/19/2020	2450B	22.0	2650	2.315	50.855	2.234	52.445	3.63%	-3.03%
			2700	2.390	50.618	2.305	52.382	3.69%	-3.37%
			2750	2.460	50.457	2.375	52.320	3.58%	-3.56%
			2300	1.794	51.548	1.809	52.900	-0.83%	-2.56%
			2310	1.809	51.518	1.816	52.887	-0.39%	-2.59%
			2320	1.823	51.488	1.826	52.873	-0.16%	-2.62%
			2400	1.938	51.212	1.902	52.767	1.89%	-2.95%
			2450	2.009	51.023	1.950	52.700	3.03%	-3.18%
			2500	2.084	50.822	2.021	52.636	3.12%	-3.45%
			2550	2.154	50.606	2.092	52.573	2.96%	-3.74%
7/22/2020	2450B	22.0	2600	2.229	50.412	2.163	52.509	3.05%	-3.99%
			2650	2.299	50.196	2.234	52.445	2.91%	-4.29%
			2700	2.375	50.007	2.305	52.382	3.04%	-4.53%
			2400	1.959	51.857	1.902	52.767	3.00%	-1.72%
			2450	2.025	51.683	1.950	52.700	3.85%	-1.93%
			2500	2.100	51.477	2.021	52.636	3.91%	-2.20%
			2400	1.974	51.965	1.902	52.767	3.79%	-1.52%
			2450	2.045	51.806	1.950	52.700	4.87%	-1.70%
			2500	2.118	51.602	2.021	52.636	4.80%	-1.96%
			5180	5.272	47.303	5.276	49.041	-0.08%	-3.54%
07/24/2020	5200B-5800B	22.8	5200	5.297	47.265	5.299	49.014	-0.04%	-3.57%
			5220	5.331	47.197	5.323	48.987	0.15%	-3.65%
			5240	5.361	47.169	5.346	48.960	0.28%	-3.66%
			5260	5.393	47.166	5.369	48.933	0.45%	-3.61%
			5280	5.405	47.130	5.393	48.906	0.22%	-3.63%
			5300	5.434	47.066	5.416	48.879	0.33%	-3.71%
			5320	5.472	46.999	5.439	48.851	0.61%	-3.79%
			5500	5.715	46.663	5.650	48.607	1.17%	-4.00%
			5520	5.750	46.606	5.673	48.580	1.36%	-4.06%
			5540	5.785	46.594	5.696	48.553	1.56%	-4.03%
			5560	5.814	46.560	5.720	48.526	1.64%	-4.03%
			5580	5.838	46.532	5.743	48.499	1.65%	-4.06%
			5600	5.862	46.473	5.766	48.471	1.66%	-4.12%
			5620	5.896	46.436	5.790	48.444	1.83%	-4.14%
			5640	5.935	46.415	5.813	48.417	2.10%	-4.13%
			5660	5.959	46.408	5.837	48.390	2.09%	-4.10%
			5680	5.979	46.368	5.860	48.363	2.03%	-4.13%
			5700	6.011	46.302	5.883	48.336	2.18%	-4.21%
			5745	6.082	46.235	5.936	48.275	2.46%	-4.23%
			5765	6.108	46.229	5.959	48.248	2.50%	-4.18%
			5785	6.124	46.193	5.982	48.220	2.37%	-4.20%
			5800	6.148	46.124	6.000	48.200	2.47%	-4.31%
			5805	6.159	46.107	6.006	48.193	2.55%	-4.33%
			5825	6.205	46.069	6.029	48.166	2.92%	-4.35%

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

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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 Appendix D.

Table 9-3
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	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
AM8	750	HEAD	06/25/2020	23.1	21.7	0.200	1034	7532	1.630	8.320	8.150	-2.04%
AM1	835	HEAD	06/26/2020	22.7	21.6	0.200	4d180	7427	1.910	9.600	9.550	-0.52%
AM1	850	HEAD	06/29/2020	23.1	21.4	0.200	1009	7427	1.920	10.000	9.600	-4.00%
AM1	850	HEAD	07/01/2020	23.5	21.7	0.200	1010	7427	1.930	9.930	9.650	-2.82%
AM8	1750	HEAD	07/01/2020	23.5	21.1	0.100	1104	7532	3.760	36.400	37.600	3.30%
AM2	1750	HEAD	07/07/2020	22.6	22.0	0.100	1092	7420	3.400	36.100	34.000	-5.82%
AM7	1900	HEAD	06/24/2020	20.9	21.3	0.100	5d026	7490	3.860	40.200	38.600	-3.98%
AM7	1900	HEAD	06/29/2020	20.1	20.2	0.100	5d181	7490	3.810	39.500	38.100	-3.54%
AM7	2450	HEAD	07/09/2020	21.9	20.8	0.100	921	7490	5.290	53.100	52.900	-0.38%
AM7	2450	HEAD	07/22/2020	21.9	20.3	0.100	921	7490	5.170	53.100	51.700	-2.64%
AM7	2450	HEAD	07/26/2020	21.1	21.4	0.100	945	7490	5.030	51.000	50.300	-1.37%
AM7	2450	HEAD	08/19/2020	20.7	21.9	0.100	945	7490	5.170	51.000	51.700	1.37%
AM7	2600	HEAD	07/09/2020	21.9	20.8	0.100	1069	7490	5.790	56.900	57.900	1.76%
AM7	2600	HEAD	08/19/2020	20.7	21.9	0.100	1069	7490	6.050	56.900	60.500	6.33%
AM2	5250	HEAD	07/20/2020	22.1	21.5	0.050	1123	7420	3.920	81.600	78.400	-3.92%
AM2	5600	HEAD	07/20/2020	22.1	21.5	0.050	1123	7420	4.090	85.100	81.800	-3.88%
AM2	5750	HEAD	07/20/2020	22.1	21.5	0.050	1123	7420	3.820	80.600	76.400	-5.21%

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Table 9-4
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	Measured SAR _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
AM8	750	BODY	07/06/2020	21.2	20.3	0.200	1097	7532	1.150	5.680	5.750	1.23%
AM4	850	BODY	07/06/2020	21.1	20.9	0.200	1010	7421	1.410	6.680	7.050	5.54%
AM4	850	BODY	07/08/2020	20.5	21.4	0.200	1010	7421	1.430	6.680	7.150	7.04%
AM4	850	BODY	08/19/2020	21.4	21.1	0.200	1010	7421	1.370	6.680	6.850	2.54%
AM6	1750	BODY	06/26/2020	23.8	20.5	0.100	1083	3837	2.080	19.700	20.800	5.58%
AM6	1750	BODY	06/30/2020	23.8	20.3	0.100	1104	3837	2.070	19.600	20.700	5.61%
AM6	1900	BODY	06/26/2020	23.8	20.5	0.100	5d030	3837	2.170	21.100	21.700	2.84%
AM6	1900	BODY	06/30/2020	23.8	20.3	0.100	5d026	3837	2.130	21.200	21.300	0.47%
AM5	2450	BODY	06/30/2020	22.7	21.7	0.100	921	7491	2.450	23.800	24.500	2.94%
AM5	2450	BODY	07/19/2020	22.9	21.0	0.100	921	7416	2.280	23.800	22.800	-4.20%
AM5	2450	BODY	07/22/2020	22.5	22.0	0.100	945	7416	2.220	23.200	22.200	-4.31%
AM5	2450	BODY	07/27/2020	22.5	21.5	0.100	921	7416	2.310	23.800	23.100	-2.94%
AM5	2600	BODY	06/30/2020	22.7	21.7	0.100	1069	7491	2.560	24.800	25.600	3.23%
AM5	2600	BODY	07/19/2020	22.9	21.0	0.100	1069	7416	2.330	24.800	23.300	-6.05%
AM8	5250	BODY	07/24/2020	20.5	20.8	0.050	1123	7532	1.010	20.600	20.200	-1.94%
AM8	5600	BODY	07/24/2020	20.5	20.8	0.050	1123	7532	1.050	21.700	21.000	-3.23%
AM8	5750	BODY	07/24/2020	20.5	20.8	0.050	1123	7532	1.030	20.800	20.600	-0.96%

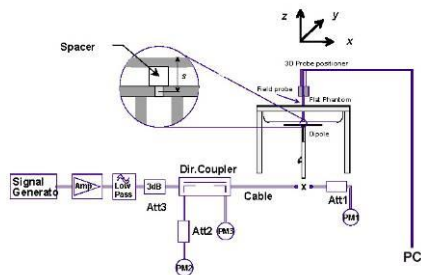


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Head SAR Data

Table 10-1
UMTS 850 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.02	Front	10 mm	Aluminum	Sport	GY6CQ00NQ617	1:1	0.001	1.262	0.001	
836.60	4183	UMTS 850	RMC	25.0	23.99	-0.12	Front	10 mm	Aluminum	Metal Links	GY6CQ01GQ617	1:1	0.000	1.262	0.000	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.05	Front	10 mm	Aluminum	Metal Loop	GY6CQ00BQ617	1:1	0.001	1.262	0.001	
836.60	4183	UMTS 850	RMC	25.0	23.99	-0.14	Front	10 mm	Stainless Steel	Sport	GY6CR00NQ61L	1:1	0.001	1.262	0.001	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.04	Front	10 mm	Stainless Steel	Metal Links	GY6CR00TQ61L	1:1	0.000	1.262	0.000	
836.60	4183	UMTS 850	RMC	25.0	23.99	-0.04	Front	10 mm	Stainless Steel	Metal Loop	GY6CR00QQ61L	1:1	0.002	1.262	0.003	A1
836.60	4183	UMTS 850	RMC	25.0	23.99	0.19	Front	10 mm	Titanium	Sport	GY6CR00UQ61Y	1:1	0.002	1.262	0.003	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.16	Front	10 mm	Titanium	Metal Links	GY6CR00NQ61Y	1:1	0.000	1.262	0.000	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.09	Front	10 mm	Titanium	Metal Loop	GY6CR00NQ61Y	1:1	0.001	1.262	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-2
UMTS 1750 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.09	Front	10 mm	Aluminum	Sport	GY6CQ00NQ617	1:1	0.126	1.262	0.159	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.06	Front	10 mm	Aluminum	Metal Links	GY6CQ00NQ617	1:1	0.164	1.262	0.207	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.01	Front	10 mm	Aluminum	Metal Loop	GY6CQ00NQ617	1:1	0.171	1.262	0.216	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.07	Front	10 mm	Stainless Steel	Sport	GY6CR01KQ61L	1:1	0.111	1.262	0.140	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.02	Front	10 mm	Stainless Steel	Metal Links	GY6CR01KQ61L	1:1	0.147	1.262	0.186	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.06	Front	10 mm	Stainless Steel	Metal Loop	GY6CR00FQ61L	1:1	0.163	1.262	0.206	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.07	Front	10 mm	Titanium	Sport	GY6CR00VQ61Y	1:1	0.132	1.262	0.167	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.04	Front	10 mm	Titanium	Metal Links	GY6CR00VQ61Y	1:1	0.145	1.262	0.183	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.05	Front	10 mm	Titanium	Metal Loop	GY6CR00VQ61Y	1:1	0.174	1.262	0.220	A2
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 10-3
UMTS 1900 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.01	Front	10 mm	Aluminum	Sport	GY6CQ00VQ617	1:1	0.166	1.259	0.209	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.07	Front	10 mm	Aluminum	Metal Links	GY6CQ00VQ617	1:1	0.214	1.259	0.269	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.01	Front	10 mm	Aluminum	Metal Loop	GY6CQ00BQ617	1:1	0.238	1.259	0.300	A3
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.03	Front	10 mm	Stainless Steel	Sport	GY6CR01DQ61L	1:1	0.190	1.259	0.239	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.07	Front	10 mm	Stainless Steel	Metal Links	GY6CR01DQ61L	1:1	0.182	1.259	0.229	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.12	Front	10 mm	Stainless Steel	Metal Loop	GY6CR00EQ61L	1:1	0.224	1.259	0.282	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.06	Front	10 mm	Titanium	Sport	GY6CR00MQ61Y	1:1	0.166	1.259	0.209	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.00	Front	10 mm	Titanium	Metal Links	GY6CR00MQ61Y	1:1	0.155	1.259	0.195	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.05	Front	10 mm	Titanium	Metal Loop	GY6CR00AQ61Y	1:1	0.233	1.259	0.293	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-4
LTE Band 12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	Sport	25.0	23.84	-0.11	0	Front	10 mm	Aluminum	QPSK	1	0	Gy6CQ008Q617	1:1	0.001	1.306	0.001	A4
707.50	23095	Mid	LTE Band 12	10	Sport	24.0	22.82	0.18	1	Front	10 mm	Aluminum	QPSK	25	25	Gy6CQ008Q617	1:1	0.001	1.312	0.001	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.0	23.84	0.11	0	Front	10 mm	Aluminum	QPSK	1	0	Gy6CQ01GQ617	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.0	22.82	0.19	1	Front	10 mm	Aluminum	QPSK	25	25	Gy6CQ01GQ617	1:1	0.000	1.312	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.0	23.84	0.15	0	Front	10 mm	Aluminum	QPSK	1	0	Gy6CQ00XQ617	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.0	22.82	0.17	1	Front	10 mm	Aluminum	QPSK	25	25	Gy6CQ00XQ617	1:1	0.000	1.312	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	25.0	23.84	0.15	0	Front	10 mm	Stainless Steel	QPSK	1	0	Gy6CR00EQ61L	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.0	22.82	0.15	1	Front	10 mm	Stainless Steel	QPSK	25	25	Gy6CR00EQ61L	1:1	0.000	1.312	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.0	23.84	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	0	Gy6CR01DQ61L	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.0	22.82	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	25	Gy6CR01DQ61L	1:1	0.000	1.312	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.0	23.84	0.07	0	Front	10 mm	Stainless Steel	QPSK	1	0	Gy6CR00FQ61L	1:1	0.001	1.306	0.001	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.0	22.82	0.11	1	Front	10 mm	Stainless Steel	QPSK	25	25	Gy6CR00FQ61L	1:1	0.001	1.312	0.001	
707.50	23095	Mid	LTE Band 12	10	Sport	25.0	23.84	0.08	0	Front	10 mm	Titanium	QPSK	1	0	Gy6CR00NQ61Y	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.0	22.82	0.16	1	Front	10 mm	Titanium	QPSK	25	25	Gy6CR00NQ61Y	1:1	0.000	1.312	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.0	23.84	0.00	0	Front	10 mm	Titanium	QPSK	1	0	Gy6CR00AQ61Y	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.0	22.82	0.00	1	Front	10 mm	Titanium	QPSK	25	25	Gy6CR00AQ61Y	1:1	0.000	1.312	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.0	23.84	0.19	0	Front	10 mm	Titanium	QPSK	1	0	Gy6CR00UQ61Y	1:1	0.000	1.306	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.0	22.82	0.16	1	Front	10 mm	Titanium	QPSK	25	25	Gy6CR00UQ61Y	1:1	0.000	1.312	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-5
LTE Band 13 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	LTE Band 13	10	Sport	25.0	23.87	-0.12	0	Front	10 mm	Aluminum	QPSK	1	25	G6YCQ008Q617	1:1	0.000	1.297	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	24.0	22.99	0.04	1	Front	10 mm	Aluminum	QPSK	25	25	G6YCQ008Q617	1:1	0.000	1.262	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.0	23.87	-0.11	0	Front	10 mm	Aluminum	QPSK	1	25	G6YCQ008Q617	1:1	0.001	1.297	0.001	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.0	22.99	-0.12	1	Front	10 mm	Aluminum	QPSK	25	25	G6YCQ008Q617	1:1	0.000	1.262	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.0	23.87	0.19	0	Front	10 mm	Aluminum	QPSK	1	25	G6YCQ00XQ617	1:1	0.000	1.297	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.0	22.99	0.15	1	Front	10 mm	Aluminum	QPSK	25	25	G6YCQ00XQ617	1:1	0.000	1.262	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	25.0	23.87	0.13	0	Front	10 mm	Stainless Steel	QPSK	1	25	G6YCR012Q61L	1:1	0.001	1.297	0.001	
782.00	23230	Mid	LTE Band 13	10	Sport	24.0	22.99	0.14	1	Front	10 mm	Stainless Steel	QPSK	25	25	G6YCR012Q61L	1:1	0.001	1.262	0.001	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.0	23.87	-0.17	0	Front	10 mm	Stainless Steel	QPSK	1	25	G6YCR01DQ61L	1:1	0.001	1.297	0.001	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.0	22.99	0.12	1	Front	10 mm	Stainless Steel	QPSK	25	25	G6YCR01DQ61L	1:1	0.000	1.262	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.0	23.87	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	G6YCR00FQ61L	1:1	0.000	1.297	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.0	22.99	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	25	G6YCR00FQ61L	1:1	0.000	1.262	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	25.0	23.87	-0.07	0	Front	10 mm	Titanium	QPSK	1	25	G6YCR00AQ61Y	1:1	0.002	1.297	0.003	
782.00	23230	Mid	LTE Band 13	10	Sport	24.0	22.99	0.19	1	Front	10 mm	Titanium	QPSK	25	25	G6YCR00AQ61Y	1:1	0.001	1.262	0.001	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.0	23.87	0.09	0	Front	10 mm	Titanium	QPSK	1	25	G6YCR00BQ61Y	1:1	0.002	1.297	0.003	A5
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.0	22.99	-0.20	1	Front	10 mm	Titanium	QPSK	25	25	G6YCR00BQ61Y	1:1	0.001	1.262	0.001	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.0	23.87	0.11	0	Front	10 mm	Titanium	QPSK	1	25	G6YCR004Q61Y	1:1	0.000	1.297	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.0	22.99	0.17	1	Front	10 mm	Titanium	QPSK	25	25	G6YCR004Q61Y	1:1	0.000	1.262	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-6
LTE Band 26 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.0	23.35	0.15	0	Front	10 mm	Aluminum	QPSK	1	49	GY6CQ01GQ617	1:1	0.001	1.462	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.0	22.31	0.19	1	Front	10 mm	Aluminum	QPSK	25	0	GY6CQ01GQ617	1:1	0.001	1.476	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.0	23.35	0.02	0	Front	10 mm	Aluminum	QPSK	1	49	GY6CQ00BQ617	1:1	0.000	1.462	0.000	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.0	22.31	0.10	1	Front	10 mm	Aluminum	QPSK	25	0	GY6CQ00BQ617	1:1	0.000	1.476	0.000	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.35	0.20	0	Front	10 mm	Aluminum	QPSK	1	49	GY6CQ00VQ617	1:1	0.001	1.462	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.31	0.14	1	Front	10 mm	Aluminum	QPSK	25	0	GY6CQ00VQ617	1:1	0.001	1.476	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.0	23.35	0.05	0	Front	10 mm	Stainless Steel	QPSK	1	49	GY6CR00QQ61L	1:1	0.001	1.462	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.0	22.31	0.06	1	Front	10 mm	Stainless Steel	QPSK	25	0	GY6CR00QQ61L	1:1	0.001	1.476	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.0	23.35	0.15	0	Front	10 mm	Stainless Steel	QPSK	1	49	GY6CR012Q61L	1:1	0.001	1.462	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.0	22.31	0.13	1	Front	10 mm	Stainless Steel	QPSK	25	0	GY6CR012Q61L	1:1	0.001	1.476	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.35	-0.17	0	Front	10 mm	Stainless Steel	QPSK	1	49	GY6CR01KQ61L	1:1	0.002	1.462	0.003	A6
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.31	-0.13	1	Front	10 mm	Stainless Steel	QPSK	25	0	GY6CR01KQ61L	1:1	0.001	1.476	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.0	23.35	0.14	0	Front	10 mm	Titanium	QPSK	1	49	GY6CR00MQ61Y	1:1	0.001	1.462	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.0	22.31	-0.17	1	Front	10 mm	Titanium	QPSK	25	0	GY6CR00MQ61Y	1:1	0.001	1.476	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.0	23.35	0.03	0	Front	10 mm	Titanium	QPSK	1	49	GY6CR00VQ61Y	1:1	0.000	1.462	0.000	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.0	22.31	0.17	1	Front	10 mm	Titanium	QPSK	25	0	GY6CR00VQ61Y	1:1	0.000	1.476	0.000	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.35	0.17	0	Front	10 mm	Titanium	QPSK	1	49	GY6CR00BQ61Y	1:1	0.001	1.462	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.31	0.12	1	Front	10 mm	Titanium	QPSK	25	0	GY6CR00BQ61Y	1:1	0.001	1.476	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-7
LTE Band 5 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.89	-0.15	0	Front	10 mm	Aluminum	QPSK	1	0	GY6CQ01GQ617	1:1	0.001	1.291	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.62	0.12	1	Front	10 mm	Aluminum	QPSK	25	0	GY6CQ01GQ617	1:1	0.001	1.374	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.89	0.14	0	Front	10 mm	Aluminum	QPSK	1	0	GY6CQ00WQ617	1:1	0.001	1.291	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.62	0.19	1	Front	10 mm	Aluminum	QPSK	25	0	GY6CQ00WQ617	1:1	0.000	1.374	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.89	-0.20	0	Front	10 mm	Aluminum	QPSK	1	0	GY6CQ00VQ617	1:1	0.001	1.291	0.001	A7
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.62	0.01	1	Front	10 mm	Aluminum	QPSK	25	0	GY6CQ00VQ617	1:1	0.001	1.374	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.89	-0.18	0	Front	10 mm	Stainless Steel	QPSK	1	0	GY6CR00Q61L	1:1	0.001	1.291	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.62	-0.13	1	Front	10 mm	Stainless Steel	QPSK	25	0	GY6CR00Q61L	1:1	0.001	1.374	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.89	0.18	0	Front	10 mm	Stainless Steel	QPSK	1	0	GY6CR00TQ61L	1:1	0.000	1.291	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.62	0.19	1	Front	10 mm	Stainless Steel	QPSK	25	0	GY6CR00TQ61L	1:1	0.000	1.374	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.89	-0.04	0	Front	10 mm	Stainless Steel	QPSK	1	0	GY6CR012Q61L	1:1	0.001	1.291	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.62	0.12	1	Front	10 mm	Stainless Steel	QPSK	25	0	GY6CR012Q61L	1:1	0.000	1.374	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.89	0.03	0	Front	10 mm	Titanium	QPSK	1	0	GY6CR00MQ61Y	1:1	0.001	1.291	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.62	0.17	1	Front	10 mm	Titanium	QPSK	25	0	GY6CR00MQ61Y	1:1	0.001	1.374	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.89	-0.19	0	Front	10 mm	Titanium	QPSK	1	0	GY6CR00MQ61Y	1:1	0.000	1.291	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.62	0.18	1	Front	10 mm	Titanium	QPSK	25	0	GY6CR00MQ61Y	1:1	0.001	1.374	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.89	0.06	0	Front	10 mm	Titanium	QPSK	1	0	GY6CR00MQ61Y	1:1	0.001	1.291	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.62	0.19	1	Front	10 mm	Titanium	QPSK	25	0	GY6CR00MQ61Y	1:1	0.001	1.374	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-8
LTE Band 66 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.0	22.82	-0.05	0	Front	10 mm	Aluminum	QPSK	1	99	GY6CQ008Q617	1:1	0.149	1.312	0.195	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.0	21.98	0.12	1	Front	10 mm	Aluminum	QPSK	50	0	GY6CQ008Q617	1:1	0.116	1.265	0.147	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.0	22.82	0.16	0	Front	10 mm	Aluminum	QPSK	1	99	GY6CQ00XQ617	1:1	0.161	1.312	0.211	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.0	21.98	0.13	1	Front	10 mm	Aluminum	QPSK	50	0	GY6CQ00XQ617	1:1	0.128	1.265	0.162	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.0	22.82	0.08	0	Front	10 mm	Aluminum	QPSK	1	99	GY6CQ01GQ617	1:1	0.156	1.312	0.205	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.0	21.98	0.00	1	Front	10 mm	Aluminum	QPSK	50	0	GY6CQ01GQ617	1:1	0.127	1.265	0.161	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.0	22.82	0.15	0	Front	10 mm	Stainless Steel	QPSK	1	99	GY6CR00FQ61L	1:1	0.139	1.312	0.182	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.0	21.98	0.07	1	Front	10 mm	Stainless Steel	QPSK	50	0	GY6CR00FQ61L	1:1	0.115	1.265	0.145	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.0	22.82	0.08	0	Front	10 mm	Stainless Steel	QPSK	1	99	GY6CR01DQ61L	1:1	0.157	1.312	0.206	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.0	21.98	-0.03	1	Front	10 mm	Stainless Steel	QPSK	50	0	GY6CR01DQ61L	1:1	0.123	1.265	0.156	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.0	22.82	-0.20	0	Front	10 mm	Stainless Steel	QPSK	1	99	GY6CR00FQ61L	1:1	0.174	1.312	0.228	A8
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.0	21.98	-0.04	1	Front	10 mm	Stainless Steel	QPSK	50	0	GY6CR00FQ61L	1:1	0.131	1.265	0.166	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.0	22.82	0.05	0	Front	10 mm	Titanium	QPSK	1	99	GY6CR004Q61Y	1:1	0.114	1.312	0.150	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.0	21.98	0.04	1	Front	10 mm	Titanium	QPSK	50	0	GY6CR004Q61Y	1:1	0.090	1.265	0.114	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.0	22.82	0.04	0	Front	10 mm	Titanium	QPSK	1	99	GY6CR00BQ61Y	1:1	0.172	1.312	0.226	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.0	21.98	-0.07	1	Front	10 mm	Titanium	QPSK	50	0	GY6CR00BQ61Y	1:1	0.132	1.265	0.167	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.0	22.82	0.05	0	Front	10 mm	Titanium	QPSK	1	99	GY6CR004Q61Y	1:1	0.143	1.312	0.188	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.0	21.98	-0.03	1	Front	10 mm	Titanium	QPSK	50	0	GY6CR004Q61Y	1:1	0.110	1.265	0.139	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-9
LTE Band 25 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dnrt [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.0	22.90	0.11	0	Front	10 mm	Aluminum	QPSK	1	99	Gy6CQ00EQ617	1:1	0.194	1.288	0.250	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.0	21.92	0.14	1	Front	10 mm	Aluminum	QPSK	50	50	Gy6CQ00EQ617	1:1	0.135	1.282	0.173	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.0	22.90	-0.16	0	Front	10 mm	Aluminum	QPSK	1	99	Gy6CQ00VQ617	1:1	0.108	1.288	0.139	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.0	21.92	-0.05	1	Front	10 mm	Aluminum	QPSK	50	50	Gy6CQ00VQ617	1:1	0.105	1.282	0.135	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.0	22.90	-0.09	0	Front	10 mm	Aluminum	QPSK	1	99	Gy6CQ00BQ617	1:1	0.191	1.288	0.246	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.0	21.92	-0.19	1	Front	10 mm	Aluminum	QPSK	50	50	Gy6CQ00BQ617	1:1	0.132	1.282	0.169	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.0	22.90	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	99	Gy6CR01DQ61L	1:1	0.182	1.288	0.234	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.0	21.92	0.08	1	Front	10 mm	Stainless Steel	QPSK	50	50	Gy6CR01DQ61L	1:1	0.142	1.282	0.182	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.0	22.90	-0.13	0	Front	10 mm	Stainless Steel	QPSK	1	99	Gy6CR00FQ61L	1:1	0.191	1.288	0.246	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.0	21.92	-0.04	1	Front	10 mm	Stainless Steel	QPSK	50	50	Gy6CR00FQ61L	1:1	0.163	1.282	0.209	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.0	22.90	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	99	Gy6CR00FQ61L	1:1	0.203	1.288	0.261	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.0	21.92	0.03	1	Front	10 mm	Stainless Steel	QPSK	50	50	Gy6CR00FQ61L	1:1	0.157	1.282	0.201	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.0	22.90	-0.06	0	Front	10 mm	Titanium	QPSK	1	99	Gy6CR00VQ61Y	1:1	0.183	1.288	0.236	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.0	21.92	0.05	1	Front	10 mm	Titanium	QPSK	50	50	Gy6CR00VQ61Y	1:1	0.146	1.282	0.187	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.0	22.90	0.03	0	Front	10 mm	Titanium	QPSK	1	99	Gy6CR00VQ61Y	1:1	0.161	1.288	0.207	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.0	21.92	0.05	1	Front	10 mm	Titanium	QPSK	50	50	Gy6CR00VQ61Y	1:1	0.124	1.282	0.159	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.0	22.90	-0.04	0	Front	10 mm	Titanium	QPSK	1	99	Gy6CR004Q61Y	1:1	0.285	1.288	0.367	A9
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.0	21.92	-0.01	1	Front	10 mm	Titanium	QPSK	50	50	Gy6CR004Q61Y	1:1	0.216	1.282	0.277	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-10
LTE Band 7 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2510.00	20850	Low	LTE Band 7	20	Sport	20.5	19.72	0.07	0	Front	10 mm	Aluminum	QPSK	1	99	GY6CQ00EQ617	1:1	0.809	1.197	0.968	
2535.00	21100	Mid	LTE Band 7	20	Sport	20.5	19.84	0.11	0	Front	10 mm	Aluminum	QPSK	1	0	GY6CQ00EQ617	1:1	0.762	1.164	0.887	
2560.00	21350	High	LTE Band 7	20	Sport	20.5	19.69	0.03	0	Front	10 mm	Aluminum	QPSK	1	99	GY6CQ00EQ617	1:1	0.828	1.205	0.998	
2510.00	20850	Low	LTE Band 7	20	Sport	19.5	18.66	-0.01	1	Front	10 mm	Aluminum	QPSK	50	50	GY6CQ00EQ617	1:1	0.476	1.213	0.577	
2535.00	21100	Mid	LTE Band 7	20	Sport	19.5	18.69	-0.02	1	Front	10 mm	Aluminum	QPSK	50	0	GY6CQ00EQ617	1:1	0.596	1.205	0.718	
2560.00	21350	High	LTE Band 7	20	Sport	19.5	18.60	-0.08	1	Front	10 mm	Aluminum	QPSK	50	50	GY6CQ00EQ617	1:1	0.679	1.230	0.835	
2535.00	21100	Mid	LTE Band 7	20	Sport	19.5	18.68	0.07	1	Front	10 mm	Aluminum	QPSK	100	0	GY6CQ00EQ617	1:1	0.740	1.208	0.894	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	20.5	19.84	0.01	0	Front	10 mm	Aluminum	QPSK	1	0	GY6CQ00NQ617	1:1	0.504	1.164	0.587	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	19.5	18.69	0.06	1	Front	10 mm	Aluminum	QPSK	50	0	GY6CQ00NQ617	1:1	0.419	1.205	0.505	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	20.5	19.84	0.01	0	Front	10 mm	Aluminum	QPSK	1	0	GY6CQ00VQ617	1:1	0.530	1.164	0.617	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	19.5	18.69	-0.03	1	Front	10 mm	Aluminum	QPSK	50	0	GY6CQ00VQ617	1:1	0.442	1.205	0.533	
2510.00	20850	Low	LTE Band 7	20	Sport	20.5	19.72	-0.05	0	Front	10 mm	Stainless Steel	QPSK	1	99	GY6CR00TQ61L	1:1	0.796	1.197	0.953	
2535.00	21100	Mid	LTE Band 7	20	Sport	20.5	19.84	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	0	GY6CR00TQ61L	1:1	0.874	1.164	1.017	A10
2560.00	21350	High	LTE Band 7	20	Sport	20.5	19.69	-0.06	0	Front	10 mm	Stainless Steel	QPSK	1	99	GY6CR00TQ61L	1:1	0.843	1.205	1.016	
2510.00	20850	Low	LTE Band 7	20	Sport	19.5	18.66	-0.02	1	Front	10 mm	Stainless Steel	QPSK	50	50	GY6CR00TQ61L	1:1	0.670	1.213	0.813	
2535.00	21100	Mid	LTE Band 7	20	Sport	19.5	18.69	-0.01	1	Front	10 mm	Stainless Steel	QPSK	50	0	GY6CR00TQ61L	1:1	0.710	1.205	0.856	
2560.00	21350	High	LTE Band 7	20	Sport	19.5	18.60	0.01	1	Front	10 mm	Stainless Steel	QPSK	50	50	GY6CR00TQ61L	1:1	0.725	1.230	0.892	
2535.00	21100	Mid	LTE Band 7	20	Sport	19.5	18.68	0.01	1	Front	10 mm	Stainless Steel	QPSK	100	0	GY6CR00TQ61L	1:1	0.734	1.208	0.887	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	20.5	19.84	0.07	0	Front	10 mm	Stainless Steel	QPSK	1	0	GY6CR00TQ61L	1:1	0.598	1.164	0.696	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	19.5	18.69	0.02	1	Front	10 mm	Stainless Steel	QPSK	50	0	GY6CR00TQ61L	1:1	0.474	1.205	0.571	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	20.5	19.84	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	0	GY6CR01DQ61L	1:1	0.676	1.164	0.787	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	19.5	18.69	0.00	1	Front	10 mm	Stainless Steel	QPSK	50	0	GY6CR01DQ61L	1:1	0.538	1.205	0.648	
2510.00	20850	Low	LTE Band 7	20	Sport	20.5	19.72	-0.12	0	Front	10 mm	Titanium	QPSK	1	99	GY6CR00MQ61Y	1:1	0.744	1.197	0.891	
2535.00	21100	Mid	LTE Band 7	20	Sport	20.5	19.84	-0.02	0	Front	10 mm	Titanium	QPSK	1	0	GY6CR00MQ61Y	1:1	0.731	1.164	0.851	
2560.00	21350	High	LTE Band 7	20	Sport	20.5	19.69	0.06	0	Front	10 mm	Titanium	QPSK	1	99	GY6CR00MQ61Y	1:1	0.807	1.205	0.972	
2510.00	20850	Low	LTE Band 7	20	Sport	19.5	18.66	0.01	1	Front	10 mm	Titanium	QPSK	50	50	GY6CR00MQ61Y	1:1	0.570	1.213	0.691	
2535.00	21100	Mid	LTE Band 7	20	Sport	19.5	18.69	0.01	1	Front	10 mm	Titanium	QPSK	50	0	GY6CR00MQ61Y	1:1	0.586	1.205	0.706	
2560.00	21350	High	LTE Band 7	20	Sport	19.5	18.60	0.05	1	Front	10 mm	Titanium	QPSK	50	50	GY6CR00MQ61Y	1:1	0.636	1.230	0.782	
2535.00	21100	Mid	LTE Band 7	20	Sport	19.5	18.68	0.01	1	Front	10 mm	Titanium	QPSK	100	0	GY6CR00MQ61Y	1:1	0.621	1.208	0.750	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	20.5	19.84	0.01	0	Front	10 mm	Titanium	QPSK	1	0	GY6CR00UQ61Y	1:1	0.541	1.164	0.630	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	19.5	18.69	0.02	1	Front	10 mm	Titanium	QPSK	50	0	GY6CR00UQ61Y	1:1	0.432	1.205	0.521	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	20.5	19.84	0.03	0	Front	10 mm	Titanium	QPSK	1	0	GY6CR004Q61Y	1:1	0.600	1.164	0.698	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	19.5	18.69	0.04	1	Front	10 mm	Titanium	QPSK	50	0	GY6CR004Q61Y	1:1	0.476	1.205	0.574	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

FCC ID: BCG-A2294	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-11
LTE Band 41 Head SAR

FREQUENCY		MEASUREMENT RESULTS																				Reported SAR (W/kg)	Plot #
		Mode	Bandwidth (MHz)	Modulation Type	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power (dB)	MFR (dB)	Site	Spacing	Insulator Type	Modulation	RF Size	RF Offset	Device Serial Number	Test Cycle	SAR (W/kg)	Scaling Factor					
2593.50	39750	Low-Mid	LTE Band 41	20	Sport	22.5	22.28	-0.02	0	Front	30 mm	Aluminum	QPSK	1	99	0YHCQ00VQ617	11.58	0.738	1.052	0.786			
2549.50	40385	Low-Mid	LTE Band 41	20	Sport	22.5	22.22	-0.05	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.801	1.067	0.961			
2593.50	40820	Mid	LTE Band 41	20	Sport	22.5	22.39	0.05	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.874	1.028	0.898			
2636.50	41255	Mid-High	LTE Band 41	20	Sport	22.5	22.19	-0.09	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.844	1.074	0.982			
2680.00	41490	High	LTE Band 41	20	Sport	22.5	22.11	-0.09	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.969	1.094	1.060			
2693.50	39750	Low	LTE Band 41	20	Sport	21.5	21.15	-0.03	1	Front	30 mm	Aluminum	QPSK	50	50	0YHCQ00VQ617	11.58	0.962	1.094	0.969			
2549.50	40385	Low	LTE Band 41	20	Sport	21.5	20.95	-0.01	1	Front	30 mm	Aluminum	QPSK	50	50	0YHCQ00VQ617	11.58	0.738	1.135	0.835			
2593.50	40820	Mid	LTE Band 41	20	Sport	21.5	21.40	0.03	1	Front	30 mm	Aluminum	QPSK	50	0	0YHCQ00VQ617	11.58	0.668	1.023	0.685			
2636.50	41255	Mid-High	LTE Band 41	20	Sport	21.5	21.13	-0.01	1	Front	30 mm	Aluminum	QPSK	50	0	0YHCQ00VQ617	11.58	0.645	1.089	0.702			
2680.00	41490	High	LTE Band 41	20	Sport	21.5	21.06	-0.06	1	Front	30 mm	Aluminum	QPSK	50	50	0YHCQ00VQ617	11.58	0.822	1.107	0.978			
2593.50	40820	Mid	LTE Band 41	20	Sport	21.5	21.35	0.13	1	Front	30 mm	Aluminum	QPSK	100	0	0YHCQ00VQ617	11.58	0.743	1.035	0.767			
2593.50	39750	Low	LTE Band 41	20	Metal Links	22.5	22.28	-0.02	0	Front	30 mm	Aluminum	QPSK	1	99	0YHCQ00VQ617	11.58	0.575	1.052	0.605			
2549.50	40385	Low-Mid	LTE Band 41	20	Metal Links	22.5	22.22	-0.09	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.794	1.097	0.827			
2593.50	40820	Mid	LTE Band 41	20	Metal Links	22.5	22.39	0.04	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.777	1.038	0.789			
2636.50	41255	Mid-High	LTE Band 41	20	Metal Links	22.5	22.19	-0.08	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.848	1.074	0.866			
2680.00	41490	High	LTE Band 41	20	Metal Links	22.5	22.11	-0.02	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.984	1.094	0.860			
2593.50	39750	Low	LTE Band 41	20	Metal Links	21.5	21.15	-0.04	1	Front	30 mm	Aluminum	QPSK	50	50	0YHCQ00VQ617	11.58	0.424	1.094	0.400			
2549.50	40385	Low	LTE Band 41	20	Metal Links	21.5	20.95	-0.04	1	Front	30 mm	Aluminum	QPSK	50	50	0YHCQ00VQ617	11.58	0.642	1.135	0.739			
2593.50	40820	Mid	LTE Band 41	20	Metal Links	21.5	21.40	0.04	1	Front	30 mm	Aluminum	QPSK	50	0	0YHCQ00VQ617	11.58	0.698	1.023	0.613			
2636.50	41255	Mid-High	LTE Band 41	20	Metal Links	21.5	21.13	0.13	1	Front	30 mm	Aluminum	QPSK	50	0	0YHCQ00VQ617	11.58	0.520	1.089	0.566			
2680.00	41490	High	LTE Band 41	20	Metal Links	21.5	21.06	0.01	1	Front	30 mm	Aluminum	QPSK	50	50	0YHCQ00VQ617	11.58	0.528	1.107	0.594			
2593.50	40820	Mid	LTE Band 41	20	Metal Links	21.5	21.35	-0.02	1	Front	30 mm	Aluminum	QPSK	100	0	0YHCQ00VQ617	11.58	0.643	1.035	0.683			
2593.50	39750	Low	LTE Band 41	20	Metal Loop	22.5	22.28	-0.14	0	Front	30 mm	Aluminum	QPSK	1	99	0YHCQ00VQ617	11.58	0.595	1.052	0.635			
2549.50	40385	Low-Mid	LTE Band 41	20	Metal Loop	22.5	22.22	-0.02	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.739	1.097	0.788			
2593.50	40820	Mid	LTE Band 41	20	Metal Loop	22.5	22.39	-0.07	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.826	1.074	0.872			
2636.50	41255	Mid-High	LTE Band 41	20	Metal Loop	22.5	22.19	-0.12	0	Front	30 mm	Aluminum	QPSK	1	0	0YHCQ00VQ617	11.58	0.985	1.094	0.840			
2680.00	41490	High	LTE Band 41	20	Metal Loop	21.5	21.40	-0.08	1	Front	30 mm	Aluminum	QPSK	50	0	0YHCQ00VQ617	11.58	0.564	1.023	0.577			
2593.50	40820	Mid	LTE Band 41	20	Metal Loop	21.5	21.35	0.07	1	Front	30 mm	Aluminum	QPSK	100	0	0YHCQ00VQ617	11.58	0.568	1.035	0.575			
2549.50	40385	Low	LTE Band 41	20	Sport	22.5	22.22	-0.03	0	Front	30 mm	Stainless Steel	QPSK	1	99	0YHCRO00Q617	11.58	0.979	1.052	1.007			
2593.50	40820	Mid	LTE Band 41	20	Sport	22.5	22.39	-0.05	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	1.000	1.067	1.183	A11		
2636.50	41255	Mid-High	LTE Band 41	20	Sport	22.5	22.19	-0.01	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	1.000	1.074	1.074			
2680.00	41490	High	LTE Band 41	20	Sport	22.5	22.11	-0.02	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.929	1.094	1.056			
2593.50	39750	Low	LTE Band 41	20	Sport	21.5	21.15	-0.02	1	Front	30 mm	Stainless Steel	QPSK	50	50	0YHCRO00Q617	11.58	0.863	1.094	0.739			
2549.50	40385	Low-Mid	LTE Band 41	20	Sport	21.5	20.95	-0.07	1	Front	30 mm	Stainless Steel	QPSK	50	50	0YHCRO00Q617	11.58	0.802	1.135	0.930			
2593.50	40820	Mid	LTE Band 41	20	Sport	21.5	21.40	0.04	1	Front	30 mm	Stainless Steel	QPSK	50	0	0YHCRO00Q617	11.58	0.800	1.023	0.818			
2636.50	41255	Mid-High	LTE Band 41	20	Sport	21.5	21.13	0.04	1	Front	30 mm	Stainless Steel	QPSK	50	0	0YHCRO00Q617	11.58	0.884	1.089	0.786			
2680.00	41490	High	LTE Band 41	20	Sport	21.5	21.06	0.07	1	Front	30 mm	Stainless Steel	QPSK	50	50	0YHCRO00Q617	11.58	0.923	1.107	0.887			
2593.50	40820	Mid	LTE Band 41	20	Sport	21.5	21.35	-0.07	1	Front	30 mm	Stainless Steel	QPSK	100	0	0YHCRO00Q617	11.58	0.793	1.035	0.819			
2593.50	39750	Low	LTE Band 41	20	Metal Links	22.5	22.28	-0.07	0	Front	30 mm	Stainless Steel	QPSK	1	99	0YHCRO00Q617	11.58	0.600	1.052	0.683			
2549.50	40385	Low-Mid	LTE Band 41	20	Metal Links	22.5	22.22	-0.09	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.795	1.097	0.750			
2593.50	40820	Mid	LTE Band 41	20	Metal Links	22.5	22.39	-0.10	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.690	1.038	0.759			
2636.50	41255	Mid-High	LTE Band 41	20	Metal Links	22.5	22.19	-0.03	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.806	1.074	0.861			
2680.00	41490	High	LTE Band 41	20	Metal Links	22.5	22.11	-0.07	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.926	1.094	0.882			
2593.50	40820	Mid	LTE Band 41	20	Metal Links	21.5	21.40	0.01	1	Front	30 mm	Stainless Steel	QPSK	50	0	0YHCRO00Q617	11.58	0.533	1.023	0.545			
2593.50	40820	Mid	LTE Band 41	20	Metal Links	21.5	21.35	0.06	1	Front	30 mm	Stainless Steel	QPSK	100	0	0YHCRO00Q617	11.58	0.524	1.035	0.542			
2593.50	39750	Low	LTE Band 41	20	Metal Loop	22.5	22.28	-0.04	0	Front	30 mm	Stainless Steel	QPSK	1	99	0YHCRO00Q617	11.58	0.683	1.052	0.729			
2549.50	40385	Low-Mid	LTE Band 41	20	Metal Loop	22.5	22.22	-0.09	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.734	1.097	0.783			
2593.50	40820	Mid	LTE Band 41	20	Metal Loop	22.5	22.39	-0.06	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.795	1.038	0.756			
2636.50	41255	Mid-High	LTE Band 41	20	Metal Loop	22.5	22.19	-0.03	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.792	1.074	0.754			
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.5	22.11	-0.08	0	Front	30 mm	Stainless Steel	QPSK	1	0	0YHCRO00Q617	11.58	0.886	1.094	0.750			
2593.50	40820	Mid	LTE Band 41	20	Metal Loop	21.5	21.40	0.01	1	Front	30 mm	Stainless Steel	QPSK	50	0	0YHCRO00Q617	11.58	0.553	1.023	0.566			
2593.50	40820	Mid	LTE Band 41	20	Metal Loop	21.5	21.35	-0.08	1	Front	30 mm	Stainless Steel	QPSK	100	0	0YHCRO00Q617	11.58	0.556	1.035	0.575			
2593.50	39750	Low	LTE Band 41	20	Sport	22.5	22.28	-0.01	0	Front	30 mm	Titanium	QPSK	1	99	0YHCRO00Q617	11.58	0.968	1.052	1.038			
2549.50	40385	Low-Mid	LTE Band 41	20	Sport	22.5	22.22	-0.03	0	Front	30 mm	Titanium	QPSK	1	0	0YHCRO00Q617	11.58	1.060	1.067	1.131			
2593.50	40820	Mid	LTE Band 41	20	Sport	22.5	22.39	-0.04	0	Front	30 mm	Titanium	QPSK	1	0	0YHCRO00Q617	11.58	0.813	1.028	0.886			
2636.50	41255	Mid-High	LTE Band 41	20	Sport	22.5	22.19	-0.03	0	Front	30 mm	Titanium	QPSK	1	0	0YHCRO00Q617	11.58	0.803	1.074	0.881			
2680.00	41490	High	LTE Band 41	20	Sport	22.5	22.11	-0.09	0	Front	30 mm	Titanium	QPSK	1	0	0YHCRO00Q617	11.58	0.792	1.094	0.823			
2593.50	39750	Low	LTE Band 41	20	Sport	21.5	21.15	-0.06	1	Front	30 mm	Titanium	QPSK	50	50								

Table 10-12
2.4 GHz WLAN Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.06	0.06	Front	10 mm	Aluminum	Sport	GY6CQ008Q617	1	100.0	0.432	1.242	1.000	0.537	
2437	6	802.11b	DSSS	22	19.0	18.06	0.01	Front	10 mm	Aluminum	Metal Links	GY6CQ01GQ617	1	100.0	0.253	1.242	1.000	0.314	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.17	Front	10 mm	Aluminum	Metal Loop	GY6CQ00BQ617	1	100.0	0.270	1.242	1.000	0.335	
2437	6	802.11b	DSSS	22	19.0	18.06	0.08	Front	10 mm	Aluminum	Sport	GY6CQ01GQ617	1	18.7	0.090	1.242	1.604	0.179	
2437	6	802.11b	DSSS	22	19.0	18.06	0.08	Front	10 mm	Aluminum	Metal Links	GY6CQ01GQ617	1	18.7	0.041	1.242	1.604	0.082	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.11	Front	10 mm	Aluminum	Metal Loop	GY6CQ01GQ617	1	18.7	0.046	1.242	1.604	0.092	
2412	1	802.11b	DSSS	22	19.0	17.94	-0.01	Front	10 mm	Stainless Steel	Sport	GY6CR012Q61L	1	100.0	0.376	1.276	1.000	0.480	
2437	6	802.11b	DSSS	22	19.0	18.06	0.04	Front	10 mm	Stainless Steel	Sport	GY6CR012Q61L	1	100.0	0.514	1.242	1.000	0.638	A12
2462	11	802.11b	DSSS	22	19.0	17.95	-0.06	Front	10 mm	Stainless Steel	Sport	GY6CR012Q61L	1	100.0	0.471	1.274	1.000	0.600	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.02	Front	10 mm	Stainless Steel	Metal Links	GY6CR012Q61L	1	100.0	0.318	1.242	1.000	0.395	
2437	6	802.11b	DSSS	22	19.0	18.06	0.07	Front	10 mm	Stainless Steel	Metal Loop	GY6CR012Q61L	1	100.0	0.374	1.242	1.000	0.465	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.11	Front	10 mm	Stainless Steel	Sport	GY6CR00TQ61L	1	18.7	0.106	1.242	1.604	0.211	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.04	Front	10 mm	Stainless Steel	Metal Links	GY6CR00TQ61L	1	18.7	0.062	1.242	1.604	0.124	
2437	6	802.11b	DSSS	22	19.0	18.06	0.19	Front	10 mm	Stainless Steel	Metal Loop	GY6CR00TQ61L	1	18.7	0.070	1.242	1.604	0.139	
2437	6	802.11b	DSSS	22	19.0	18.06	0.08	Front	10 mm	Titanium	Sport	GY6CR00BQ61Y	1	100.0	0.492	1.242	1.000	0.611	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.03	Front	10 mm	Titanium	Metal Links	GY6CR00BQ61Y	1	100.0	0.323	1.242	1.000	0.401	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.13	Front	10 mm	Titanium	Metal Loop	GY6CR00BQ61Y	1	100.0	0.339	1.242	1.000	0.421	
2437	6	802.11b	DSSS	22	19.0	18.06	0.00	Front	10 mm	Titanium	Sport	GY6CR00BQ61Y	1	18.7	0.092	1.242	1.604	0.183	
2437	6	802.11b	DSSS	22	19.0	18.06	0.19	Front	10 mm	Titanium	Metal Links	GY6CR00BQ61Y	1	18.7	0.050	1.242	1.604	0.100	
2437	6	802.11b	DSSS	22	19.0	18.06	0.05	Front	10 mm	Titanium	Metal Loop	GY6CR00BQ61Y	1	18.7	0.071	1.242	1.604	0.141	
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 the 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 18.7% transmission duty factor due to software limitation and the cellular antenna was not active.

FCC ID: BCG-A2294	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270019-01-R1.BCG	Test Dates: 06/24/2020 – 08/19/2020	DUT Type: Watch	Page 61 of 82

Table 10-13
5 GHz WLAN Head SAR

MEASUREMENT RESULTS																		
FREQUENCY	Mode	Service	Bandwidth	Maximum	Conducted	Power	Side	Spacing	Housing	Wristband	Device Serial	Data Rate	Duty Cycle	SAR (lg)	Scaling	Scaling	Reported SAR	Plot #
MHz	Ch.		[MHz]	Allowed Power [dBm]	Power [dBm]	[dB]			Type	Type	Number	[Mbps]	(%)	(W/kg)	Factor (Power)	Factor (Duty Cycle)	(lg)	
5260	52	802.11a	OFDM	20	16.0	15.12	-0.08	Front	10 mm	Aluminum	Sport	GY8CQ008Q617	6	97.3	0.125	1.225	1.028	0.157
5260	52	802.11a	OFDM	20	16.0	15.12	0.02	Front	10 mm	Aluminum	Metal Links	GY8CQ008Q617	6	97.3	0.128	1.225	1.028	0.161
5260	52	802.11a	OFDM	20	16.0	15.12	0.09	Front	10 mm	Aluminum	Metal Loop	GY8CQ008Q617	6	97.3	0.121	1.225	1.028	0.152
5260	52	802.11a	OFDM	20	16.0	15.12	-0.20	Front	10 mm	Aluminum	Sport	GY8CQ008Q617	6	19.5	0.020	1.225	1.538	0.038
5260	52	802.11a	OFDM	20	16.0	15.12	-0.17	Front	10 mm	Aluminum	Metal Links	GY8CQ008Q617	6	19.5	0.023	1.225	1.538	0.043
5260	52	802.11a	OFDM	20	16.0	15.12	-0.18	Front	10 mm	Aluminum	Metal Loop	GY8CQ008Q617	6	19.5	0.026	1.225	1.538	0.049
5260	52	802.11a	OFDM	20	16.0	15.12	-0.20	Front	10 mm	Stainless Steel	Sport	GY8CR00NQ61L	6	97.3	0.103	1.225	1.028	0.130
5260	52	802.11a	OFDM	20	16.0	15.12	0.04	Front	10 mm	Stainless Steel	Metal Links	GY8CR00NQ61L	6	97.3	0.105	1.225	1.028	0.132
5260	52	802.11a	OFDM	20	16.0	15.12	0.17	Front	10 mm	Stainless Steel	Metal Loop	GY8CR00NQ61L	6	97.3	0.111	1.225	1.028	0.140
5260	52	802.11a	OFDM	20	16.0	15.12	-0.19	Front	10 mm	Stainless Steel	Sport	GY8CR00NQ61L	6	19.5	0.036	1.225	1.538	0.068
5260	52	802.11a	OFDM	20	16.0	15.12	-0.03	Front	10 mm	Stainless Steel	Metal Links	GY8CR00NQ61L	6	19.5	0.032	1.225	1.538	0.060
5260	52	802.11a	OFDM	20	16.0	15.12	-0.19	Front	10 mm	Stainless Steel	Metal Loop	GY8CR00NQ61L	6	19.5	0.029	1.225	1.538	0.055
5260	52	802.11a	OFDM	20	16.0	15.12	0.07	Front	10 mm	Titanium	Sport	GY8CR00AQ61Y	6	97.3	0.187	1.225	1.028	0.235
5260	52	802.11a	OFDM	20	16.0	15.12	0.05	Front	10 mm	Titanium	Metal Links	GY8CR00AQ61Y	6	97.3	0.198	1.225	1.028	0.249
5260	52	802.11a	OFDM	20	16.0	15.12	0.07	Front	10 mm	Titanium	Metal Loop	GY8CR00AQ61Y	6	97.3	0.151	1.225	1.028	0.190
5260	52	802.11a	OFDM	20	16.0	15.12	-0.11	Front	10 mm	Titanium	Sport	GY8CR00NQ61Y	6	19.5	0.039	1.225	1.538	0.073
5260	52	802.11a	OFDM	20	16.0	15.12	-0.10	Front	10 mm	Titanium	Metal Links	GY8CR00NQ61Y	6	19.5	0.046	1.225	1.538	0.087
5260	52	802.11a	OFDM	20	16.0	15.12	0.13	Front	10 mm	Titanium	Metal Loop	GY8CR00NQ61Y	6	19.5	0.048	1.225	1.538	0.090
5600	120	802.11a	OFDM	20	16.0	15.09	-0.18	Front	10 mm	Aluminum	Sport	GY8CQ00VQ617	6	97.3	0.175	1.233	1.028	0.222
5600	120	802.11a	OFDM	20	16.0	15.09	-0.09	Front	10 mm	Aluminum	Metal Links	GY8CQ00VQ617	6	97.3	0.164	1.233	1.028	0.208
5600	120	802.11a	OFDM	20	16.0	15.09	-0.05	Front	10 mm	Aluminum	Metal Loop	GY8CQ00VQ617	6	97.3	0.154	1.233	1.028	0.195
5600	120	802.11a	OFDM	20	16.0	15.09	-0.11	Front	10 mm	Aluminum	Sport	GY8CQ00VQ617	6	19.5	0.032	1.233	1.538	0.061
5600	120	802.11a	OFDM	20	16.0	15.09	-0.18	Front	10 mm	Aluminum	Metal Links	GY8CQ00VQ617	6	19.5	0.035	1.233	1.538	0.066
5600	120	802.11a	OFDM	20	16.0	15.09	-0.19	Front	10 mm	Aluminum	Metal Loop	GY8CQ00VQ617	6	19.5	0.037	1.233	1.538	0.070
5600	120	802.11a	OFDM	20	16.0	15.09	0.10	Front	10 mm	Stainless Steel	Sport	GY8CR00EQ61L	6	97.3	0.127	1.233	1.028	0.161
5600	120	802.11a	OFDM	20	16.0	15.09	-0.04	Front	10 mm	Stainless Steel	Metal Links	GY8CR00EQ61L	6	97.3	0.112	1.233	1.028	0.142
5600	120	802.11a	OFDM	20	16.0	15.09	-0.17	Front	10 mm	Stainless Steel	Metal Loop	GY8CR00EQ61L	6	97.3	0.116	1.233	1.028	0.147
5600	120	802.11a	OFDM	20	16.0	15.09	-0.12	Front	10 mm	Stainless Steel	Sport	GY8CR00NQ61L	6	19.5	0.031	1.233	1.538	0.059
5600	120	802.11a	OFDM	20	16.0	15.09	0.16	Front	10 mm	Stainless Steel	Metal Links	GY8CR00NQ61L	6	19.5	0.023	1.233	1.538	0.044
5600	120	802.11a	OFDM	20	16.0	15.09	0.13	Front	10 mm	Stainless Steel	Metal Loop	GY8CR00NQ61L	6	19.5	0.037	1.233	1.538	0.070
5600	120	802.11a	OFDM	20	16.0	15.09	0.05	Front	10 mm	Titanium	Sport	GY8CR00AQ61Y	6	97.3	0.147	1.233	1.028	0.186
5600	120	802.11a	OFDM	20	16.0	15.09	-0.18	Front	10 mm	Titanium	Metal Links	GY8CR00AQ61Y	6	97.3	0.111	1.233	1.028	0.141
5600	120	802.11a	OFDM	20	16.0	15.09	0.12	Front	10 mm	Titanium	Metal Loop	GY8CR00AQ61Y	6	97.3	0.098	1.233	1.028	0.124
5600	120	802.11a	OFDM	20	16.0	15.09	0.08	Front	10 mm	Titanium	Sport	GY8CR00NQ61Y	6	19.5	0.028	1.233	1.538	0.053
5600	120	802.11a	OFDM	20	16.0	15.09	-0.20	Front	10 mm	Titanium	Metal Links	GY8CR00NQ61Y	6	19.5	0.022	1.233	1.538	0.042
5600	120	802.11a	OFDM	20	16.0	15.09	-0.18	Front	10 mm	Titanium	Metal Loop	GY8CR00NQ61Y	6	19.5	0.028	1.233	1.538	0.053
5825	165	802.11a	OFDM	20	16.0	15.12	-0.08	Front	10 mm	Aluminum	Sport	GY8CQ00BQ617	6	97.3	0.160	1.225	1.028	0.201
5825	165	802.11a	OFDM	20	16.0	15.12	-0.07	Front	10 mm	Aluminum	Metal Links	GY8CQ00BQ617	6	97.3	0.140	1.225	1.028	0.176
5825	165	802.11a	OFDM	20	16.0	15.12	0.07	Front	10 mm	Aluminum	Metal Loop	GY8CQ00BQ617	6	97.3	0.146	1.225	1.028	0.184
5825	165	802.11a	OFDM	20	16.0	15.12	0.20	Front	10 mm	Aluminum	Sport	GY8CQ01GQ617	6	19.5	0.030	1.225	1.538	0.057
5825	165	802.11a	OFDM	20	16.0	15.12	-0.08	Front	10 mm	Aluminum	Metal Links	GY8CQ01GQ617	6	19.5	0.031	1.225	1.538	0.058
5825	165	802.11a	OFDM	20	16.0	15.12	0.11	Front	10 mm	Aluminum	Metal Loop	GY8CQ01GQ617	6	19.5	0.025	1.225	1.538	0.047
5825	165	802.11a	OFDM	20	16.0	15.12	-0.01	Front	10 mm	Stainless Steel	Sport	GY8CR00NQ61L	6	97.3	0.135	1.225	1.028	0.170
5825	165	802.11a	OFDM	20	16.0	15.12	0.14	Front	10 mm	Stainless Steel	Metal Links	GY8CR00NQ61L	6	97.3	0.099	1.225	1.028	0.125
5825	165	802.11a	OFDM	20	16.0	15.12	-0.20	Front	10 mm	Stainless Steel	Metal Loop	GY8CR00NQ61L	6	97.3	0.090	1.225	1.028	0.113
5825	165	802.11a	OFDM	20	16.0	15.12	-0.04	Front	10 mm	Stainless Steel	Sport	GY8CR00NQ61L	6	19.5	0.023	1.225	1.538	0.043
5825	165	802.11a	OFDM	20	16.0	15.12	-0.14	Front	10 mm	Stainless Steel	Metal Links	GY8CR00NQ61L	6	19.5	0.021	1.225	1.538	0.040
5825	165	802.11a	OFDM	20	16.0	15.12	-0.19	Front	10 mm	Stainless Steel	Metal Loop	GY8CR00NQ61L	6	19.5	0.025	1.225	1.538	0.047
5825	165	802.11a	OFDM	20	16.0	15.12	-0.06	Front	10 mm	Titanium	Sport	GY8CR00AQ61Y	6	97.3	0.098	1.225	1.028	0.123
5825	165	802.11a	OFDM	20	16.0	15.12	-0.11	Front	10 mm	Titanium	Metal Links	GY8CR00AQ61Y	6	97.3	0.097	1.225	1.028	0.122
5825	165	802.11a	OFDM	20	16.0	15.12	-0.11	Front	10 mm	Titanium	Metal Loop	GY8CR00AQ61Y	6	97.3	0.098	1.225	1.028	0.123
5825	165	802.11a	OFDM	20	16.0	15.12	0.15	Front	10 mm	Titanium	Sport	GY8CR00BQ61Y	6	19.5	0.015	1.225	1.538	0.028
5825	165	802.11a	OFDM	20	16.0	15.12	0.16	Front	10 mm	Titanium	Metal Links	GY8CR00BQ61Y	6	19.5	0.014	1.225	1.538	0.026
5825	165	802.11a	OFDM	20	16.0	15.12	-0.18	Front	10 mm	Titanium	Metal Loop	GY8CR00BQ61Y	6	19.5	0.013	1.225	1.538	0.024
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 the 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 19.5% transmission duty factor due to software limitation and the cellular antenna was not active.

FCC ID: BCG-A2294	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-14
Bluetooth Head SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2480.00	78	Bluetooth	FHSS	13.0	12.43	0.07	Front	10 mm	Aluminum	Sport	GY6CQ00BQ617	1	100	0.105	1.140	1.000	0.120	
2480.00	78	Bluetooth	FHSS	13.0	12.43	0.06	Front	10 mm	Aluminum	Metal Links	GY6CQ00BQ617	1	100	0.064	1.140	1.000	0.073	
2480.00	78	Bluetooth	FHSS	13.0	12.43	0.12	Front	10 mm	Aluminum	Metal Loop	GY6CQ00BQ617	1	100	0.072	1.140	1.000	0.082	
2480.00	78	Bluetooth	FHSS	13.0	12.43	-0.07	Front	10 mm	Stainless Steel	Sport	GY6CR00TQ61L	1	100	0.153	1.140	1.000	0.174	A14
2480.00	78	Bluetooth	FHSS	13.0	12.43	-0.04	Front	10 mm	Stainless Steel	Metal Links	GY6CR00TQ61L	1	100	0.098	1.140	1.000	0.112	
2480.00	78	Bluetooth	FHSS	13.0	12.43	-0.01	Front	10 mm	Stainless Steel	Metal Loop	GY6CR00TQ61L	1	100	0.106	1.140	1.000	0.121	
2480.00	78	Bluetooth	FHSS	13.0	12.43	0.03	Front	10 mm	Titanium	Sport	GY6CR00VQ61Y	1	100	0.140	1.140	1.000	0.160	
2480.00	78	Bluetooth	FHSS	13.0	12.43	0.05	Front	10 mm	Titanium	Metal Links	GY6CR00VQ61Y	1	100	0.092	1.140	1.000	0.105	
2480.00	78	Bluetooth	FHSS	13.0	12.43	0.05	Front	10 mm	Titanium	Metal Loop	GY6CR00VQ61Y	1	100	0.096	1.140	1.000	0.109	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCG-A2294	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270019-01-R1.BCG	Test Dates: 06/24/2020 – 08/19/2020	DUT Type: Watch	Page 63 of 82

10.2 Standalone Extremity SAR Data

Table 10-15
UMTS 850 Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)	
836.60	4183	UMTS 850	RMC	25.0	23.99	-0.02	0 mm	Aluminum	Sport	GY6CQ00WQ617	1:1	back	1.262	0.095	0.120	
836.60	4183	UMTS 850	RMC	25.0	23.99	-0.16	0 mm	Aluminum	Metal Links	GY6CQ00WQ617	1:1	back	1.262	0.152	0.192	A15
836.60	4183	UMTS 850	RMC	25.0	23.99	0.00	0 mm	Aluminum	Metal Loop	GY6CQ00BQ617	1:1	back	1.262	0.116	0.146	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.11	0 mm	Stainless Steel	Sport	GY6CR00FQ61L	1:1	back	1.262	0.086	0.109	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.04	0 mm	Stainless Steel	Metal Links	GY6CR00FQ61L	1:1	back	1.262	0.124	0.156	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.17	0 mm	Stainless Steel	Metal Loop	GY6CR00FQ61L	1:1	back	1.262	0.091	0.115	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.16	0 mm	Titanium	Sport	GY6CR00VQ61Y	1:1	back	1.262	0.080	0.101	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.14	0 mm	Titanium	Metal Links	GY6CR00VQ61Y	1:1	back	1.262	0.132	0.167	
836.60	4183	UMTS 850	RMC	25.0	23.99	0.12	0 mm	Titanium	Metal Loop	GY6CR00VQ61Y	1:1	back	1.262	0.106	0.134	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 gram									

Table 10-16
UMTS 1750 Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.13	0 mm	Aluminum	Sport	GY6CQ00EQ617	1:1	back	1.262	0.043	0.054	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.01	0 mm	Aluminum	Metal Links	GY6CQ00EQ617	1:1	back	1.262	0.051	0.064	A16
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.16	0 mm	Aluminum	Metal Loop	GY6CQ00EQ617	1:1	back	1.262	0.031	0.039	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.03	0 mm	Stainless Steel	Sport	GY6CR00QQ61L	1:1	back	1.262	0.024	0.030	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.07	0 mm	Stainless Steel	Metal Links	GY6CR00QQ61L	1:1	back	1.262	0.034	0.043	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.16	0 mm	Stainless Steel	Metal Loop	GY6CR00NQ61L	1:1	back	1.262	0.013	0.016	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	0.17	0 mm	Titanium	Sport	GY6CR004Q61Y	1:1	back	1.262	0.037	0.047	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	-0.07	0 mm	Titanium	Metal Links	GY6CR004Q61Y	1:1	back	1.262	0.046	0.058	
1732.40	1412	UMTS 1750	RMC	24.0	22.99	-0.02	0 mm	Titanium	Metal Loop	GY6CR00VQ61Y	1:1	back	1.262	0.015	0.019	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 gram									

FCC ID: BCG-A2294	 PCTEST Proud to be part of element		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2004270019-01-R1.BCG	Test Dates: 06/24/2020 – 08/19/2020		DUT Type: Watch	Page 64 of 82

Table 10-17
UMTS 1900 Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.10	0 mm	Aluminum	Sport	GY6CQ00EQ617	1:1	back	1.259	0.048	0.060	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.11	0 mm	Aluminum	Metal Links	GY6CQ00EQ617	1:1	back	1.259	0.049	0.062	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.04	0 mm	Aluminum	Metal Loop	GY6CQ00EQ617	1:1	back	1.259	0.024	0.030	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.08	0 mm	Stainless Steel	Sport	GY6CR01DQ61L	1:1	back	1.259	0.033	0.042	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.11	0 mm	Stainless Steel	Metal Links	GY6CR01DQ61L	1:1	back	1.259	0.041	0.052	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.20	0 mm	Stainless Steel	Metal Loop	GY6CR012Q61L	1:1	back	1.259	0.015	0.019	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.19	0 mm	Titanium	Sport	GY6CR00NQ61Y	1:1	back	1.259	0.044	0.055	
1880.00	9400	UMTS 1900	RMC	24.0	23.00	-0.08	0 mm	Titanium	Metal Links	GY6CR00NQ61Y	1:1	back	1.259	0.049	0.062	A17
1880.00	9400	UMTS 1900	RMC	24.0	23.00	0.20	0 mm	Titanium	Metal Loop	GY6CR00MQ61Y	1:1	back	1.259	0.020	0.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Extremity 4.0 W/kg (mW/g) averaged over 10 gram								

Table 10-18
LTE Band 12 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
707.50	23095	Mid	LTE Band 12	10	Sport	25.0	23.84	0.10	0	Aluminum	GY6CQ00NQ617	QPSK	1	0	0 mm	back	1:1	1.306	0.076	0.099	A18
707.50	23095	Mid	LTE Band 12	10	Sport	24.0	22.82	0.15	1	Aluminum	GY6CQ00NQ617	QPSK	25	25	0 mm	back	1:1	1.312	0.065	0.085	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.0	23.84	-0.07	0	Aluminum	GY6CQ00XQ617	QPSK	1	0	0 mm	back	1:1	1.306	0.132	0.172	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.0	22.82	-0.10	1	Aluminum	GY6CQ00XQ617	QPSK	25	25	0 mm	back	1:1	1.312	0.096	0.126	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.0	23.84	0.02	0	Aluminum	GY6CQ01GQ617	QPSK	1	0	0 mm	back	1:1	1.306	0.093	0.121	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.0	22.82	0.07	1	Aluminum	GY6CQ01GQ617	QPSK	25	25	0 mm	back	1:1	1.312	0.079	0.104	
707.50	23095	Mid	LTE Band 12	10	Sport	25.0	23.84	0.04	0	Stainless Steel	GY6CR012Q61L	QPSK	1	0	0 mm	back	1:1	1.306	0.075	0.098	
707.50	23095	Mid	LTE Band 12	10	Sport	24.0	22.82	0.04	1	Stainless Steel	GY6CR012Q61L	QPSK	25	25	0 mm	back	1:1	1.312	0.063	0.083	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.0	23.84	0.10	0	Stainless Steel	GY6CR00EQ61L	QPSK	1	0	0 mm	back	1:1	1.306	0.109	0.142	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.0	22.82	0.03	1	Stainless Steel	GY6CR00EQ61L	QPSK	25	25	0 mm	back	1:1	1.312	0.094	0.123	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.0	23.84	0.09	0	Stainless Steel	GY6CR00QQ61L	QPSK	1	0	0 mm	back	1:1	1.306	0.098	0.128	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.0	22.82	0.08	1	Stainless Steel	GY6CR00QQ61L	QPSK	25	25	0 mm	back	1:1	1.312	0.082	0.108	
707.50	23095	Mid	LTE Band 12	10	Sport	25.0	23.84	0.13	0	Titanium	GY6CR004Q61Y	QPSK	1	0	0 mm	back	1:1	1.306	0.071	0.093	
707.50	23095	Mid	LTE Band 12	10	Sport	24.0	22.82	0.20	1	Titanium	GY6CR004Q61Y	QPSK	25	25	0 mm	back	1:1	1.312	0.056	0.073	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.0	23.84	-0.08	0	Titanium	GY6CR00AQ61Y	QPSK	1	0	0 mm	back	1:1	1.306	0.107	0.140	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.0	22.82	0.01	1	Titanium	GY6CR00AQ61Y	QPSK	25	25	0 mm	back	1:1	1.312	0.088	0.115	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.0	23.84	0.08	0	Titanium	GY6CR00MQ61Y	QPSK	1	0	0 mm	back	1:1	1.306	0.072	0.094	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.0	22.82	0.13	1	Titanium	GY6CR00MQ61Y	QPSK	25	25	0 mm	back	1:1	1.312	0.059	0.077	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

FCC ID: BCG-A2294	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-19
LTE Band 13 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)																	(W/kg)		
782.00	23230	Mid	LTE Band 13	10	Sport	25.0	23.87	0.07	0	Aluminum	GY6CQ00NQ617	QPSK	1	25	0 mm	back	1:1	1.297	0.093	0.121	
782.00	23230	Mid	LTE Band 13	10	Sport	24.0	22.99	0.10	1	Aluminum	GY6CQ00NQ617	QPSK	25	25	0 mm	back	1:1	1.262	0.078	0.098	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.0	23.87	-0.04	0	Aluminum	GY6CQ00XQ617	QPSK	1	25	0 mm	back	1:1	1.297	0.161	0.209	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.0	22.99	-0.07	1	Aluminum	GY6CQ00XQ617	QPSK	25	25	0 mm	back	1:1	1.262	0.136	0.172	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.0	23.87	0.19	0	Aluminum	GY6CQ01GQ617	QPSK	1	25	0 mm	back	1:1	1.297	0.130	0.169	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.0	22.99	0.00	1	Aluminum	GY6CQ01GQ617	QPSK	25	25	0 mm	back	1:1	1.262	0.107	0.135	
782.00	23230	Mid	LTE Band 13	10	Sport	25.0	23.87	-0.02	0	Stainless Steel	GY6CR012Q61L	QPSK	1	25	0 mm	back	1:1	1.297	0.091	0.118	
782.00	23230	Mid	LTE Band 13	10	Sport	24.0	22.99	-0.05	1	Stainless Steel	GY6CR012Q61L	QPSK	25	25	0 mm	back	1:1	1.262	0.077	0.097	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.0	23.87	-0.08	0	Stainless Steel	GY6CR00EQ61L	QPSK	1	25	0 mm	back	1:1	1.297	0.154	0.200	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.0	22.99	-0.03	1	Stainless Steel	GY6CR00EQ61L	QPSK	25	25	0 mm	back	1:1	1.262	0.127	0.160	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.0	23.87	0.04	0	Stainless Steel	GY6CR00QQ61L	QPSK	1	25	0 mm	back	1:1	1.297	0.138	0.179	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.0	22.99	-0.06	1	Stainless Steel	GY6CR00QQ61L	QPSK	25	25	0 mm	back	1:1	1.262	0.114	0.144	
782.00	23230	Mid	LTE Band 13	10	Sport	25.0	23.87	0.19	0	Titanium	GY6CR004Q61Y	QPSK	1	25	0 mm	back	1:1	1.297	0.095	0.123	
782.00	23230	Mid	LTE Band 13	10	Sport	24.0	22.99	0.09	1	Titanium	GY6CR004Q61Y	QPSK	25	25	0 mm	back	1:1	1.262	0.080	0.101	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.0	23.87	0.18	0	Titanium	GY6CR00AQ61Y	QPSK	1	25	0 mm	back	1:1	1.297	0.180	0.233	A19
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.0	22.99	0.11	1	Titanium	GY6CR00AQ61Y	QPSK	25	25	0 mm	back	1:1	1.262	0.152	0.192	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.0	23.87	0.02	0	Titanium	GY6CR00MQ61Y	QPSK	1	25	0 mm	back	1:1	1.297	0.143	0.185	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.0	22.99	0.01	1	Titanium	GY6CR00MQ61Y	QPSK	25	25	0 mm	back	1:1	1.262	0.122	0.154	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

Table 10-20
LTE Band 26 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.0	23.35	-0.13	0	Aluminum	GY6CQ00XQ617	QPSK	1	49	0 mm	back	1:1	1.462	0.069	0.101	A20
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.0	22.31	-0.09	1	Aluminum	GY6CQ00XQ617	QPSK	25	0	0 mm	back	1:1	1.476	0.051	0.075	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.0	23.35	0.03	0	Aluminum	GY6CQ00WQ617	QPSK	1	49	0 mm	back	1:1	1.462	0.134	0.196	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.0	22.31	-0.08	1	Aluminum	GY6CQ00WQ617	QPSK	25	0	0 mm	back	1:1	1.476	0.117	0.173	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.35	-0.06	0	Aluminum	GY6CQ01GQ617	QPSK	1	49	0 mm	back	1:1	1.462	0.109	0.159	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.31	-0.01	1	Aluminum	GY6CQ01GQ617	QPSK	25	0	0 mm	back	1:1	1.476	0.083	0.123	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.0	23.35	0.00	0	Stainless Steel	GY6CR01DQ61L	QPSK	1	49	0 mm	back	1:1	1.462	0.070	0.102	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.0	22.31	-0.02	1	Stainless Steel	GY6CR01DQ61L	QPSK	25	0	0 mm	back	1:1	1.476	0.053	0.078	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.0	23.35	0.09	0	Stainless Steel	GY6CR01KQ61L	QPSK	1	49	0 mm	back	1:1	1.462	0.114	0.167	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.0	22.31	0.06	1	Stainless Steel	GY6CR01KQ61L	QPSK	25	0	0 mm	back	1:1	1.476	0.090	0.133	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.35	-0.06	0	Stainless Steel	GY6CR00FQ61L	QPSK	1	49	0 mm	back	1:1	1.462	0.085	0.124	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.31	0.02	1	Stainless Steel	GY6CR00FQ61L	QPSK	25	0	0 mm	back	1:1	1.476	0.067	0.099	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.0	23.35	-0.11	0	Titanium	GY6CR00NQ61Y	QPSK	1	49	0 mm	back	1:1	1.462	0.066	0.096	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.0	22.31	-0.01	1	Titanium	GY6CR00NQ61Y	QPSK	25	0	0 mm	back	1:1	1.476	0.050	0.074	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.0	23.35	-0.18	0	Titanium	GY6CR00BQ61Y	QPSK	1	49	0 mm	back	1:1	1.462	0.111	0.162	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.0	22.31	0.04	1	Titanium	GY6CR00BQ61Y	QPSK	25	0	0 mm	back	1:1	1.476	0.103	0.152	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.35	0.01	0	Titanium	GY6CR00AQ61Y	QPSK	1	49	0 mm	back	1:1	1.462	0.097	0.142	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.31	-0.03	1	Titanium	GY6CR00AQ61Y	QPSK	25	0	0 mm	back	1:1	1.476	0.070	0.103	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

FCC ID: BCG-A2294	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-21
LTE Band 5 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.89	0.15	0	Aluminum	GY6CQ00NQ617	QPSK	1	0	0 mm	back	1:1	1.291	0.086	0.111	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.62	0.12	1	Aluminum	GY6CQ00NQ617	QPSK	25	0	0 mm	back	1:1	1.374	0.069	0.095	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.89	0.19	0	Aluminum	GY6CQ00XQ617	QPSK	1	0	0 mm	back	1:1	1.291	0.118	0.152	A21
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.62	0.07	1	Aluminum	GY6CQ00XQ617	QPSK	25	0	0 mm	back	1:1	1.374	0.079	0.109	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.89	-0.20	0	Aluminum	GY6CQ01GQ617	QPSK	1	0	0 mm	back	1:1	1.291	0.117	0.151	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.62	-0.17	1	Aluminum	GY6CQ01GQ617	QPSK	25	0	0 mm	back	1:1	1.374	0.091	0.125	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.89	0.14	0	Stainless Steel	GY6CR01DQ61L	QPSK	1	0	0 mm	back	1:1	1.291	0.078	0.101	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.62	0.16	1	Stainless Steel	GY6CR01DQ61L	QPSK	25	0	0 mm	back	1:1	1.374	0.058	0.080	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.89	0.10	0	Stainless Steel	GY6CR012Q61L	QPSK	1	0	0 mm	back	1:1	1.291	0.094	0.121	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.62	0.13	1	Stainless Steel	GY6CR012Q61L	QPSK	25	0	0 mm	back	1:1	1.374	0.075	0.103	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.89	0.14	0	Stainless Steel	GY6CR01DQ61L	QPSK	1	0	0 mm	back	1:1	1.291	0.109	0.141	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.62	0.04	1	Stainless Steel	GY6CR01DQ61L	QPSK	25	0	0 mm	back	1:1	1.374	0.090	0.124	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.89	0.18	0	Titanium	GY6CR00VQ61Y	QPSK	1	0	0 mm	back	1:1	1.291	0.069	0.089	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.62	0.00	1	Titanium	GY6CR00VQ61Y	QPSK	25	0	0 mm	back	1:1	1.374	0.057	0.078	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.89	-0.01	0	Titanium	GY6CR00KQ61Y	QPSK	1	0	0 mm	back	1:1	1.291	0.093	0.120	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.62	0.09	1	Titanium	GY6CR00KQ61Y	QPSK	25	0	0 mm	back	1:1	1.374	0.075	0.103	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.89	-0.12	0	Titanium	GY6CR00AQ61Y	QPSK	1	0	0 mm	back	1:1	1.291	0.109	0.141	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.62	-0.06	1	Titanium	GY6CR00AQ61Y	QPSK	25	0	0 mm	back	1:1	1.374	0.086	0.118	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										Extremity 4.0 W/kg (mW/g) averaged over 10 gram											
Uncontrolled Exposure/General Population																					

Table 10-22
LTE Band 66 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.0	22.82	0.17	0	Aluminum	GY6CQ00WQ617	QPSK	1	99	0 mm	back	1:1	1.312	0.050	0.066	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.0	21.98	0.19	1	Aluminum	GY6CQ00WQ617	QPSK	50	0	0 mm	back	1:1	1.265	0.037	0.047	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.0	22.82	-0.09	0	Aluminum	GY6CQ00NQ617	QPSK	1	99	0 mm	back	1:1	1.312	0.048	0.063	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.0	21.98	0.13	1	Aluminum	GY6CQ00NQ617	QPSK	50	0	0 mm	back	1:1	1.265	0.040	0.051	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.0	22.82	0.01	0	Aluminum	GY6CQ01GQ617	QPSK	1	99	0 mm	back	1:1	1.312	0.031	0.041	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.0	21.98	-0.15	1	Aluminum	GY6CQ01GQ617	QPSK	50	0	0 mm	back	1:1	1.265	0.027	0.034	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.0	22.82	0.06	0	Stainless Steel	GY6CR01KQ61L	QPSK	1	99	0 mm	back	1:1	1.312	0.033	0.043	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.0	21.98	0.00	1	Stainless Steel	GY6CR01KQ61L	QPSK	50	0	0 mm	back	1:1	1.265	0.028	0.035	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.0	22.82	-0.19	0	Stainless Steel	GY6CR00FQ61L	QPSK	1	99	0 mm	back	1:1	1.312	0.057	0.075	A22
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.0	21.98	-0.05	1	Stainless Steel	GY6CR00FQ61L	QPSK	50	0	0 mm	back	1:1	1.265	0.047	0.059	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.0	22.82	0.11	0	Stainless Steel	GY6CR00TQ61L	QPSK	1	99	0 mm	back	1:1	1.312	0.009	0.012	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.0	21.98	0.20	1	Stainless Steel	GY6CR00TQ61L	QPSK	50	0	0 mm	back	1:1	1.265	0.006	0.008	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.0	22.82	0.17	0	Titanium	GY6CR00KQ61Y	QPSK	1	99	0 mm	back	1:1	1.312	0.036	0.047	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.0	21.98	0.20	1	Titanium	GY6CR00KQ61Y	QPSK	50	0	0 mm	back	1:1	1.265	0.030	0.038	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.0	22.82	-0.05	0	Titanium	GY6CR00NQ61Y	QPSK	1	99	0 mm	back	1:1	1.312	0.053	0.070	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.0	21.98	0.03	1	Titanium	GY6CR00NQ61Y	QPSK	50	0	0 mm	back	1:1	1.265	0.046	0.058	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.0	22.82	-0.11	0	Titanium	GY6CR00MQ61Y	QPSK	1	99	0 mm	back	1:1	1.312	0.008	0.010	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.0	21.98	-0.21	1	Titanium	GY6CR00MQ61Y	QPSK	50	0	0 mm	back	1:1	1.265	0.005	0.006	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

FCC ID: BCG-A2294	 Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-23
LTE Band 25 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)																	(W/kg)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.0	22.90	0.14	0	Aluminum	GY6CQ00VQ617	QPSK	1	99	0 mm	back	1:1	1.288	0.057	0.073	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.0	21.92	0.21	1	Aluminum	GY6CQ00VQ617	QPSK	50	50	0 mm	back	1:1	1.282	0.042	0.054	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.0	22.90	0.00	0	Aluminum	GY6CQ00VQ617	QPSK	1	99	0 mm	back	1:1	1.288	0.062	0.080	A23
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.0	21.92	-0.17	1	Aluminum	GY6CQ00VQ617	QPSK	50	50	0 mm	back	1:1	1.282	0.048	0.062	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.0	22.90	0.18	0	Aluminum	GY6CQ00BQ617	QPSK	1	99	0 mm	back	1:1	1.288	0.039	0.050	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.0	21.92	0.14	1	Aluminum	GY6CQ00BQ617	QPSK	50	50	0 mm	back	1:1	1.282	0.030	0.038	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.0	22.90	0.19	0	Stainless Steel	GY6CR01KQ61L	QPSK	1	99	0 mm	back	1:1	1.288	0.042	0.054	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.0	21.92	0.20	1	Stainless Steel	GY6CR01KQ61L	QPSK	50	50	0 mm	back	1:1	1.282	0.033	0.042	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.0	22.90	-0.19	0	Stainless Steel	GY6CR00TQ61L	QPSK	1	99	0 mm	back	1:1	1.288	0.045	0.058	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.0	21.92	-0.13	1	Stainless Steel	GY6CR00TQ61L	QPSK	50	50	0 mm	back	1:1	1.282	0.043	0.055	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.0	22.90	0.11	0	Stainless Steel	GY6CR00FQ61L	QPSK	1	99	0 mm	back	1:1	1.288	0.015	0.019	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.0	21.92	-0.12	1	Stainless Steel	GY6CR00FQ61L	QPSK	50	50	0 mm	back	1:1	1.282	0.009	0.012	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.0	22.90	0.17	0	Titanium	GY6CR00NQ61Y	QPSK	1	99	0 mm	back	1:1	1.288	0.039	0.050	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.0	21.92	0.16	1	Titanium	GY6CR00NQ61Y	QPSK	50	50	0 mm	back	1:1	1.282	0.031	0.040	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.0	22.90	0.17	0	Titanium	GY6CR00KQ61Y	QPSK	1	99	0 mm	back	1:1	1.288	0.028	0.036	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.0	21.92	-0.05	1	Titanium	GY6CR00KQ61Y	QPSK	50	50	0 mm	back	1:1	1.282	0.022	0.028	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.0	22.90	-0.15	0	Titanium	GY6CR00AQ61Y	QPSK	1	99	0 mm	back	1:1	1.288	0.005	0.006	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.0	21.92	0.14	1	Titanium	GY6CR00AQ61Y	QPSK	50	50	0 mm	back	1:1	1.282	0.002	0.003	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

Table 10-24
LTE Band 7 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)																	(W/kg)		
2510.00	20850	Low	LTE Band 7	20	Sport	23.5	22.45	0.06	0	Aluminum	GY6CQ00XQ617	QPSK	1	99	0 mm	back	1:1	1.274	0.103	0.131	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.50	-0.11	1	Aluminum	GY6CQ00XQ617	QPSK	50	50	0 mm	back	1:1	1.259	0.090	0.113	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.5	22.45	-0.12	0	Aluminum	GY6CQ00BQ617	QPSK	1	99	0 mm	back	1:1	1.274	0.054	0.069	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.50	0.08	1	Aluminum	GY6CQ00BQ617	QPSK	50	50	0 mm	back	1:1	1.259	0.043	0.054	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.5	22.45	-0.15	0	Aluminum	GY6CQ00BQ617	QPSK	1	99	0 mm	back	1:1	1.274	0.056	0.071	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.5	21.50	0.18	1	Aluminum	GY6CQ00BQ617	QPSK	50	50	0 mm	back	1:1	1.259	0.052	0.065	
2510.00	20850	Low	LTE Band 7	20	Sport	23.5	22.45	0.12	0	Stainless Steel	GY6CR00Q61L	QPSK	1	99	0 mm	back	1:1	1.274	0.140	0.178	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.50	0.20	1	Stainless Steel	GY6CR00Q61L	QPSK	50	50	0 mm	back	1:1	1.259	0.112	0.141	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.5	22.45	0.10	0	Stainless Steel	GY6CR00NQ61L	QPSK	1	99	0 mm	back	1:1	1.274	0.128	0.163	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.50	-0.09	1	Stainless Steel	GY6CR00NQ61L	QPSK	50	50	0 mm	back	1:1	1.259	0.099	0.125	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.5	22.45	-0.11	0	Stainless Steel	GY6CR00EQ61L	QPSK	1	99	0 mm	back	1:1	1.274	0.221	0.282	A24
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	23.5	22.43	0.15	0	Stainless Steel	GY6CR00EQ61L	QPSK	1	0	0 mm	back	1:1	1.279	0.175	0.224	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.5	22.44	-0.15	0	Stainless Steel	GY6CR00EQ61L	QPSK	1	99	0 mm	back	1:1	1.276	0.197	0.251	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.5	21.50	-0.18	1	Stainless Steel	GY6CR00EQ61L	QPSK	50	50	0 mm	back	1:1	1.259	0.135	0.170	
2510.00	20850	Low	LTE Band 7	20	Sport	23.5	22.45	0.11	0	Titanium	GY6CR00AQ61Y	QPSK	1	99	0 mm	back	1:1	1.274	0.115	0.147	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.50	0.01	1	Titanium	GY6CR00AQ61Y	QPSK	50	50	0 mm	back	1:1	1.259	0.085	0.107	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.5	22.45	-0.01	0	Titanium	GY6CR00VQ61Y	QPSK	1	99	0 mm	back	1:1	1.274	0.147	0.187	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.50	0.12	1	Titanium	GY6CR00VQ61Y	QPSK	50	50	0 mm	back	1:1	1.259	0.129	0.162	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.5	22.45	-0.03	0	Titanium	GY6CR00AQ61Y	QPSK	1	99	0 mm	back	1:1	1.274	0.174	0.222	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.5	21.50	-0.04	1	Titanium	GY6CR00AQ61Y	QPSK	50	50	0 mm	back	1:1	1.259	0.141	0.178	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

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Table 10-25
LTE Band 41 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)																	(W/kg)		
2593.00	40620	Mid	LTE Band 41	20	Sport	23.5	23.45	0.20	0	Aluminum	GY6CQ00NQ617	QPSK	1	50	0 mm	back	1:1.58	1.012	0.082	0.083	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.5	22.32	0.17	1	Aluminum	GY6CQ00NQ617	QPSK	50	0	0 mm	back	1:1.58	1.042	0.063	0.066	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.5	23.45	-0.10	0	Aluminum	GY6CQ00BQ617	QPSK	1	50	0 mm	back	1:1.58	1.012	0.092	0.093	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.5	22.32	0.11	1	Aluminum	GY6CQ00BQ617	QPSK	50	0	0 mm	back	1:1.58	1.042	0.071	0.074	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.5	23.45	0.16	0	Aluminum	GY6CQ00BQ617	QPSK	1	50	0 mm	back	1:1.58	1.012	0.087	0.088	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.5	22.32	0.08	1	Aluminum	GY6CQ00BQ617	QPSK	50	0	0 mm	back	1:1.58	1.042	0.067	0.070	
2593.00	40620	Mid	LTE Band 41	20	Sport	23.5	23.45	-0.13	0	Stainless Steel	GY6CR01DQ61L	QPSK	1	50	0 mm	back	1:1.58	1.012	0.086	0.087	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.5	22.32	0.20	1	Stainless Steel	GY6CR01DQ61L	QPSK	50	0	0 mm	back	1:1.58	1.042	0.066	0.069	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.5	23.45	0.00	0	Stainless Steel	GY6CR00Q61L	QPSK	1	50	0 mm	back	1:1.58	1.012	0.140	0.142	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.5	22.32	-0.04	1	Stainless Steel	GY6CR00Q61L	QPSK	50	0	0 mm	back	1:1.58	1.042	0.108	0.113	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.5	23.45	0.10	0	Stainless Steel	GY6CR00TQ61L	QPSK	1	50	0 mm	back	1:1.58	1.012	0.151	0.153	A25
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.5	22.32	0.10	1	Stainless Steel	GY6CR00TQ61L	QPSK	50	0	0 mm	back	1:1.58	1.042	0.117	0.122	
2593.00	40620	Mid	LTE Band 41	20	Sport	23.5	23.45	0.12	0	Titanium	GY6CR00NQ61Y	QPSK	1	50	0 mm	back	1:1.58	1.012	0.137	0.139	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.5	22.32	0.12	1	Titanium	GY6CR00NQ61Y	QPSK	50	0	0 mm	back	1:1.58	1.042	0.106	0.110	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.5	23.45	0.03	0	Titanium	GY6CR004Q61Y	QPSK	1	50	0 mm	back	1:1.58	1.012	0.099	0.100	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.5	22.32	0.14	1	Titanium	GY6CR004Q61Y	QPSK	50	0	0 mm	back	1:1.58	1.042	0.074	0.077	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.5	23.45	0.05	0	Titanium	GY6CR00VQ61Y	QPSK	1	50	0 mm	back	1:1.58	1.012	0.129	0.131	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.5	22.32	-0.15	1	Titanium	GY6CR00VQ61Y	QPSK	50	0	0 mm	back	1:1.58	1.042	0.097	0.101	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

Table 10-26
2.4 GHz WLAN Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.06	0.08	0 mm	Aluminum	Sport	GY6CQ00WQ617	1	back	100.0	1.242	1.000	0.025	0.031	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.08	0 mm	Aluminum	Metal Links	GY6CQ00WQ617	1	back	100.0	1.242	1.000	0.016	0.020	
2437	6	802.11b	DSSS	22	19.0	18.06	0.17	0 mm	Aluminum	Metal Loop	GY6CQ00WQ617	1	back	100.0	1.242	1.000	0.023	0.029	
2437	6	802.11b	DSSS	22	19.0	18.06	0.05	0 mm	Stainless Steel	Sport	GY6CR00QQ61L	1	back	100.0	1.242	1.000	0.056	0.070	
2437	6	802.11b	DSSS	22	19.0	18.06	0.13	0 mm	Stainless Steel	Metal Links	GY6CR00QQ61L	1	back	100.0	1.242	1.000	0.028	0.035	
2437	6	802.11b	DSSS	22	19.0	18.06	-0.03	0 mm	Stainless Steel	Metal Loop	GY6CR00QQ61L	1	back	100.0	1.242	1.000	0.052	0.065	
2437	6	802.11b	DSSS	22	19.0	18.06	0.02	0 mm	Titanium	Sport	GY6CR00UQ61Y	1	back	100.0	1.242	1.000	0.059	0.073	A26
2437	6	802.11b	DSSS	22	19.0	18.06	0.12	0 mm	Titanium	Metal Links	GY6CR00UQ61Y	1	back	100.0	1.242	1.000	0.039	0.048	
2437	6	802.11b	DSSS	22	19.0	18.06	0.09	0 mm	Titanium	Metal Loop	GY6CR00UQ61Y	1	back	100.0	1.242	1.000	0.059	0.073	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram										

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Table 10-27
5 GHz WLAN Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)	(W/kg)	
5260	52	802.11a	OFDM	20	16.0	15.12	0.15	0 mm	Aluminum	Sport	GY6CQ00EQ617	6	back	97.3	1.225	1.028	0.003	0.004	
5260	52	802.11a	OFDM	20	16.0	15.12	-0.14	0 mm	Aluminum	Metal Links	GY6CQ00EQ617	6	back	97.3	1.225	1.028	0.004	0.005	
5260	52	802.11a	OFDM	20	16.0	15.12	0.11	0 mm	Aluminum	Metal Loop	GY6CQ00EQ617	6	back	97.3	1.225	1.028	0.004	0.005	
5260	52	802.11a	OFDM	20	16.0	15.12	0.18	0 mm	Stainless Steel	Sport	GY6CR00TQ61L	6	back	97.3	1.225	1.028	0.004	0.005	
5260	52	802.11a	OFDM	20	16.0	15.12	0.12	0 mm	Stainless Steel	Metal Links	GY6CR00TQ61L	6	back	97.3	1.225	1.028	0.004	0.005	
5260	52	802.11a	OFDM	20	16.0	15.12	0.12	0 mm	Stainless Steel	Metal Loop	GY6CR00TQ61L	6	back	97.3	1.225	1.028	0.004	0.005	
5260	52	802.11a	OFDM	20	16.0	15.12	0.20	0 mm	Titanium	Sport	GY6CR00UQ61Y	6	back	97.3	1.225	1.028	0.007	0.009	
5260	52	802.11a	OFDM	20	16.0	15.12	0.12	0 mm	Titanium	Metal Links	GY6CR00UQ61Y	6	back	97.3	1.225	1.028	0.005	0.006	
5260	52	802.11a	OFDM	20	16.0	15.12	0.19	0 mm	Titanium	Metal Loop	GY6CR00UQ61Y	6	back	97.3	1.225	1.028	0.006	0.008	
5600	120	802.11a	OFDM	20	16.0	15.09	0.14	0 mm	Aluminum	Sport	GY6CQ00WQ617	6	back	97.3	1.233	1.028	0.006	0.008	
5600	120	802.11a	OFDM	20	16.0	15.09	0.17	0 mm	Aluminum	Metal Links	GY6CQ00WQ617	6	back	97.3	1.233	1.028	0.005	0.006	
5600	120	802.11a	OFDM	20	16.0	15.09	0.01	0 mm	Aluminum	Metal Loop	GY6CQ00WQ617	6	back	97.3	1.233	1.028	0.007	0.009	
5600	120	802.11a	OFDM	20	16.0	15.09	0.11	0 mm	Stainless Steel	Sport	GY6CR00NQ61L	6	back	97.3	1.233	1.028	0.008	0.010	
5600	120	802.11a	OFDM	20	16.0	15.09	0.13	0 mm	Stainless Steel	Metal Links	GY6CR00NQ61L	6	back	97.3	1.233	1.028	0.007	0.009	
5600	120	802.11a	OFDM	20	16.0	15.09	0.16	0 mm	Stainless Steel	Metal Loop	GY6CR00NQ61L	6	back	97.3	1.233	1.028	0.008	0.010	
5600	120	802.11a	OFDM	20	16.0	15.09	0.15	0 mm	Titanium	Sport	GY6CR00BQ61Y	6	back	97.3	1.233	1.028	0.003	0.004	
5600	120	802.11a	OFDM	20	16.0	15.09	-0.02	0 mm	Titanium	Metal Links	GY6CR00BQ61Y	6	back	97.3	1.233	1.028	0.004	0.005	
5600	120	802.11a	OFDM	20	16.0	15.09	0.11	0 mm	Titanium	Metal Loop	GY6CR00BQ61Y	6	back	97.3	1.233	1.028	0.004	0.005	
5825	165	802.11a	OFDM	20	16.0	15.12	0.01	0 mm	Aluminum	Sport	GY6CQ00NQ617	6	back	97.3	1.225	1.028	0.004	0.005	
5825	165	802.11a	OFDM	20	16.0	15.12	-0.16	0 mm	Aluminum	Metal Links	GY6CQ00NQ617	6	back	97.3	1.225	1.028	0.007	0.009	
5825	165	802.11a	OFDM	20	16.0	15.12	0.15	0 mm	Aluminum	Metal Loop	GY6CQ00WQ617	6	back	97.3	1.225	1.028	0.006	0.008	
5825	165	802.11a	OFDM	20	16.0	15.12	0.14	0 mm	Stainless Steel	Sport	GY6CR00TQ61L	6	back	97.3	1.225	1.028	0.008	0.010	
5825	165	802.11a	OFDM	20	16.0	15.12	0.04	0 mm	Stainless Steel	Metal Links	GY6CR00TQ61L	6	back	97.3	1.225	1.028	0.009	0.011	A27
5825	165	802.11a	OFDM	20	16.0	15.12	-0.08	0 mm	Stainless Steel	Metal Loop	GY6CR00TQ61L	6	back	97.3	1.225	1.028	0.008	0.010	
5825	165	802.11a	OFDM	20	16.0	15.12	0.11	0 mm	Titanium	Sport	GY6CR00NQ61Y	6	back	97.3	1.225	1.028	0.002	0.003	
5825	165	802.11a	OFDM	20	16.0	15.12	0.20	0 mm	Titanium	Metal Links	GY6CR00NQ61Y	6	back	97.3	1.225	1.028	0.003	0.004	
5825	165	802.11a	OFDM	20	16.0	15.12	0.17	0 mm	Titanium	Metal Loop	GY6CR00NQ61Y	6	back	97.3	1.225	1.028	0.004	0.005	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Extremity											
Spatial Peak								4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 10 gram											

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Table 10-28
Bluetooth Extremity SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)	(W/kg)	
2480	78	Bluetooth	FHSS	13.0	12.43	0.17	0 mm	Aluminum	Sport	GY6CQ00VQ617	1	back	100	1.140	1.000	0.004	0.005	
2480	78	Bluetooth	FHSS	13.0	12.43	0.18	0 mm	Aluminum	Metal Links	GY6CQ00VQ617	1	back	100	1.140	1.000	0.003	0.003	
2480	78	Bluetooth	FHSS	13.0	12.43	0.19	0 mm	Aluminum	Metal Loop	GY6CQ00VQ617	1	back	100	1.140	1.000	0.002	0.002	
2480	78	Bluetooth	FHSS	13.0	12.43	0.16	0 mm	Stainless Steel	Sport	GY6CR01DQ61L	1	back	100	1.140	1.000	0.009	0.010	
2480	78	Bluetooth	FHSS	13.0	12.43	0.11	0 mm	Stainless Steel	Metal Links	GY6CR01DQ61L	1	back	100	1.140	1.000	0.008	0.009	
2480	78	Bluetooth	FHSS	13.0	12.43	0.04	0 mm	Stainless Steel	Metal Loop	GY6CR01DQ61L	1	back	100	1.140	1.000	0.012	0.014	
2480	78	Bluetooth	FHSS	13.0	12.43	0.13	0 mm	Titanium	Sport	GY6CR00KQ61Y	1	back	100	1.140	1.000	0.013	0.015	
2480	78	Bluetooth	FHSS	13.0	12.43	-0.02	0 mm	Titanium	Metal Links	GY6CR00KQ61Y	1	back	100	1.140	1.000	0.013	0.015	
2480	78	Bluetooth	FHSS	13.0	12.43	0.16	0 mm	Titanium	Metal Loop	GY6CR00KQ61Y	1	back	100	1.140	1.000	0.015	0.017	A28
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 gram											

10.3 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 D01v06.
- 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 D01v06.
- Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
- This device has three housing types: Aluminum, Stainless Steel, 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 D01v06 Section 6.2 have been applied for extremity and next to mouth (head) conditions.
- Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

UMTS Notes:

- UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations and ≤ 2.0 W/kg for 10g SAR then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

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LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and >1.5 W/kg for 10g SAR, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. This device can only operate with 16 WAM on the uplink with less than or equal to 27RB. 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.

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 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.6.5 for more information.
3. 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. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8 MHz, VBW = 50 MHz, and detector = peak per guidance of Section 6.0 b) of ANSI C63. 10-2013 and KDB 558074 D01 v04. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100.
5. WLAN reduced reported SAR was scaled to 30.0% transmission duty factor to determine compliance since the duty factor of the device is limited to 30.0% per the manufacturer.

Bluetooth Notes

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

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

11.3 Head SAR Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all housing and wristband types were used as a conservative evaluation for the simultaneous transmission analysis.

Table 11-1
Cellular Band Simultaneous Transmission Scenario with 2.4 GHz WLAN Reduced (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	UMTS 850	0.003	0.211	0.214
	UMTS 1750	0.220	0.211	0.431
	UMTS 1900	0.300	0.211	0.511
	LTE Band 12	0.001	0.211	0.212
	LTE Band 13	0.003	0.211	0.214
	LTE Band 26 (Cell)	0.003	0.211	0.214
	LTE Band 5 (Cell)	0.001	0.211	0.212
	LTE Band 66 (AWS)	0.228	0.211	0.439
	LTE Band 25 (PCS)	0.367	0.211	0.578
	LTE Band 7 Reduced	1.017	0.211	1.228
	LTE Band 41 Reduced	1.163	0.211	1.374

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Table 11-2
Cellular Band Simultaneous Transmission Scenario with Bluetooth
and 5 GHz WLAN Reduced (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	UMTS 850	0.003	0.174	0.090	0.177	0.093	0.267
	UMTS 1750	0.220	0.174	0.090	0.394	0.310	0.484
	UMTS 1900	0.300	0.174	0.090	0.474	0.390	0.564
	LTE Band 12	0.001	0.174	0.090	0.175	0.091	0.265
	LTE Band 13	0.003	0.174	0.090	0.177	0.093	0.267
	LTE Band 26 (Cell)	0.003	0.174	0.090	0.177	0.093	0.267
	LTE Band 5 (Cell)	0.001	0.174	0.090	0.175	0.091	0.265
	LTE Band 66 (AWS)	0.228	0.174	0.090	0.402	0.318	0.492
	LTE Band 25 (PCS)	0.367	0.174	0.090	0.541	0.457	0.631
	LTE Band 7 Reduced	1.017	0.174	0.090	1.191	1.107	1.281
	LTE Band 41 Reduced	1.163	0.174	0.090	1.337	1.253	1.427

Table 11-3
Bluetooth Simultaneous Transmission Scenario with 5 GHz WLAN (Head at 1.0 cm)

Exposure Condition	Bluetooth SAR (W/kg)	5 GHz WLAN Max SAR (W/kg)	Σ SAR (W/kg)
	1	2	1+2
Head SAR	0.174	0.249	0.423

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11.4 Extremity SAR Simultaneous Transmission Analysis

Table 11-4
Cellular Band Simultaneous Transmission Scenario with 2.4 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Extremity SAR	UMTS 850	0.192	0.073	0.265
	UMTS 1750	0.064	0.073	0.137
	UMTS 1900	0.062	0.073	0.135
	LTE Band 12	0.172	0.073	0.245
	LTE Band 13	0.233	0.073	0.306
	LTE Band 26 (Cell)	0.196	0.073	0.269
	LTE Band 5 (Cell)	0.152	0.073	0.225
	LTE Band 66 (AWS)	0.075	0.073	0.148
	LTE Band 25 (PCS)	0.080	0.073	0.153
	LTE Band 7	0.282	0.073	0.355
	LTE Band 41	0.153	0.073	0.226

Note: Extremity WLAN SAR was tested at the max duty factor and was used for the summation to cellular bands due to the value being more conservative.

Table 11-5
Cellular Band Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Extremity SAR	UMTS 850	0.192	0.017	0.011	0.209	0.203	0.220
	UMTS 1750	0.064	0.017	0.011	0.081	0.075	0.092
	UMTS 1900	0.062	0.017	0.011	0.079	0.073	0.090
	LTE Band 12	0.172	0.017	0.011	0.189	0.183	0.200
	LTE Band 13	0.233	0.017	0.011	0.250	0.244	0.261
	LTE Band 26 (Cell)	0.196	0.017	0.011	0.213	0.207	0.224
	LTE Band 5 (Cell)	0.152	0.017	0.011	0.169	0.163	0.180
	LTE Band 66 (AWS)	0.075	0.017	0.011	0.092	0.086	0.103
	LTE Band 25 (PCS)	0.080	0.017	0.011	0.097	0.091	0.108
	LTE Band 7	0.282	0.017	0.011	0.299	0.293	0.310
	LTE Band 41	0.153	0.017	0.011	0.170	0.164	0.181

Note: Extremity WLAN SAR was tested at the max duty factor and was used for the summation to cellular bands due to the value being more conservative.

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Table 11-6
Bluetooth Simultaneous Transmission Scenario with 5 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
	1	2	1+2
Extremity SAR	0.017	0.011	0.028

11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 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

Table 12-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Test Position	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2506.00	39750	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	Front	10 mm	0.976	0.942	1.04	N/A	N/A	N/A	N/A
2600	2549.50	40185	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Front	10 mm	1.090	1.080	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Head 1.6 W/kg (mW/g) averaged over 1 gram							

12.2 Measurement Uncertainty

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

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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	9/11/2019	Annual	9/11/2020	MY45093678
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837
Agilent	E4438C	ESG Vector Signal Generator	9/30/2019	Annual	9/30/2020	US41460739
Agilent	E4438C	ESG Vector Signal Generator	9/13/2019	Annual	9/13/2020	MY42081752
Agilent	E5515C	Wireless Communications Test Set	5/18/2020	Biennial	5/18/2022	GB43193591
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343971
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520503
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520501
Anritsu	MA24106A	USB Power Sensor	8/27/2019	Annual	8/27/2020	1827531
Anritsu	MA24106A	USB Power Sensor	8/5/2019	Annual	8/5/2020	1827528
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1339007
Anritsu	ML2495A	Power Meter	11/15/2019	Annual	11/15/2020	1039008
Anritsu	ML2496A	Power Meter	12/17/2019	Annual	12/17/2020	1138001
Anritsu	MT8820C	Radio Communication Analyzer	7/25/2019	Annual	7/25/2020	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	8/16/2019	Annual	8/16/2020	6201144418
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181292054
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181292061
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181334698
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766817
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766801
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291455
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291460
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	0409193536
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	8/26/2019	Annual	8/26/2020	100976
Rohde & Schwarz	CMW500	Radio Communication Tester	8/20/2019	Annual	8/20/2020	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	10/15/2019	Annual	10/15/2020	109366
Rohde & Schwarz	CMW500	Radio Communication Tester	8/27/2019	Annual	8/27/2020	116743
Rohde & Schwarz	CMW500	Radio Communication tester	8/14/2019	Annual	8/14/2020	140144
Rohde & Schwarz	FSP-7	Spectrum Analyzer	1/9/2020	Annual	1/9/2022	100288
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/4/2020	Annual	2/4/2021	162125
SPEAG	D750V3	750 MHz SAR Dipole	5/18/2018	Triennial	5/18/2021	1034
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1097
SPEAG	D835V2	835 MHz SAR Dipole	5/18/2018	Triennial	5/18/2021	4d180
SPEAG	D850V2	850 MHz SAR Dipole	8/16/2017	Triennial	8/16/2020	1009
SPEAG	D850V2	850 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	5/15/2018	Triennial	5/15/2021	1092
SPEAG	D1750V2	1750 MHz SAR Dipole	6/19/2019	Biennial	6/19/2021	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	5/14/2018	Triennial	5/14/2021	5d026
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	5d181
SPEAG	D1900V2	1900 MHz SAR Dipole	6/19/2019	Biennial	6/19/2021	5d030
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Biennial	11/12/2020	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Triennial	5/16/2021	945
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	1069
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/13/2018	Triennial	3/13/2021	1123
SPEAG	EX3DV4	SAR Probe	2/19/2020	Annual	2/19/2021	7427
SPEAG	EX3DV4	SAR Probe	4/20/2020	Annual	4/20/2021	7532
SPEAG	EX3DV4	SAR Probe	12/13/2019	Annual	12/13/2020	7490
SPEAG	EX3DV4	SAR Probe	11/21/2019	Annual	11/21/2020	7420
SPEAG	EX3DV4	SAR Probe	3/20/2020	Annual	3/20/2021	7421
SPEAG	EX3DV4	SAR Probe	1/20/2020	Annual	1/20/2021	3837
SPEAG	EX3DV4	SAR Probe	7/16/2019	Annual	7/16/2020	7491
SPEAG	EX3DV4	SAR Probe	6/22/2020	Annual	6/22/2021	7416
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2020	Annual	2/13/2021	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2020	Annual	4/14/2021	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/13/2019	Annual	11/13/2020	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/19/2020	Annual	3/19/2021	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2020	Annual	1/14/2021	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/9/2019	Annual	7/9/2020	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/11/2020	Annual	6/11/2021	701
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045

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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14 MEASUREMENT UNCERTAINTIES

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k= 1)						RSS	11.5	11.3
Expanded Uncertainty (95% CONFIDENCE LEVEL)						k= 2	23.0	22.6

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15 CONCLUSION

15.1 Measurement Conclusion

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

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

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APPENDIX A: SAR TEST DATA

PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00QQ61L

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 MHz Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 40.884$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-01-2020; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7427; ConvF(9.58, 9.58, 9.58) @ 836.6 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 850, Head SAR, Front side, Mid.ch
Stainless Steel, Metal Loop Wristband

Area Scan (6x6x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x8x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

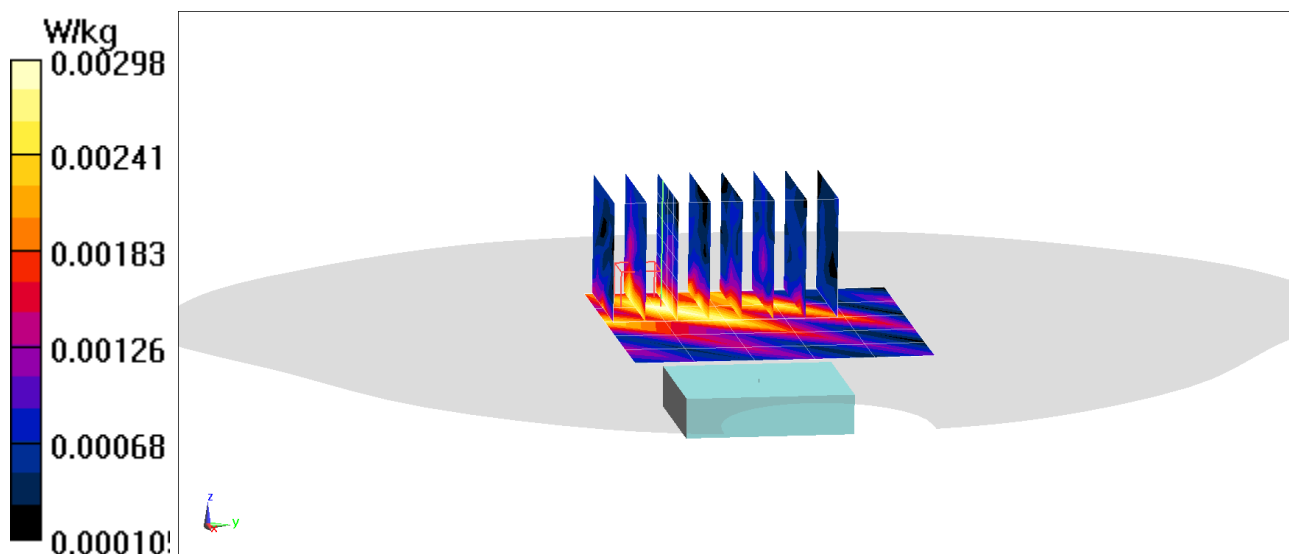
Reference Value = 1.030 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.00274 W/kg

SAR(1 g) = 0.00153 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 37.5%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00VQ61Y

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Head Medium parameters used (interpolated):

$f = 1732.4$ MHz; $\sigma = 1.348$ S/m; $\epsilon_r = 39.249$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-01-2020; Ambient Temp: 23.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7532; ConvF(8.46, 8.46, 8.46) @ 1732.4 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1750, Head SAR, Front side, Mid.ch
Titanium, Metal Loop Wristband

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

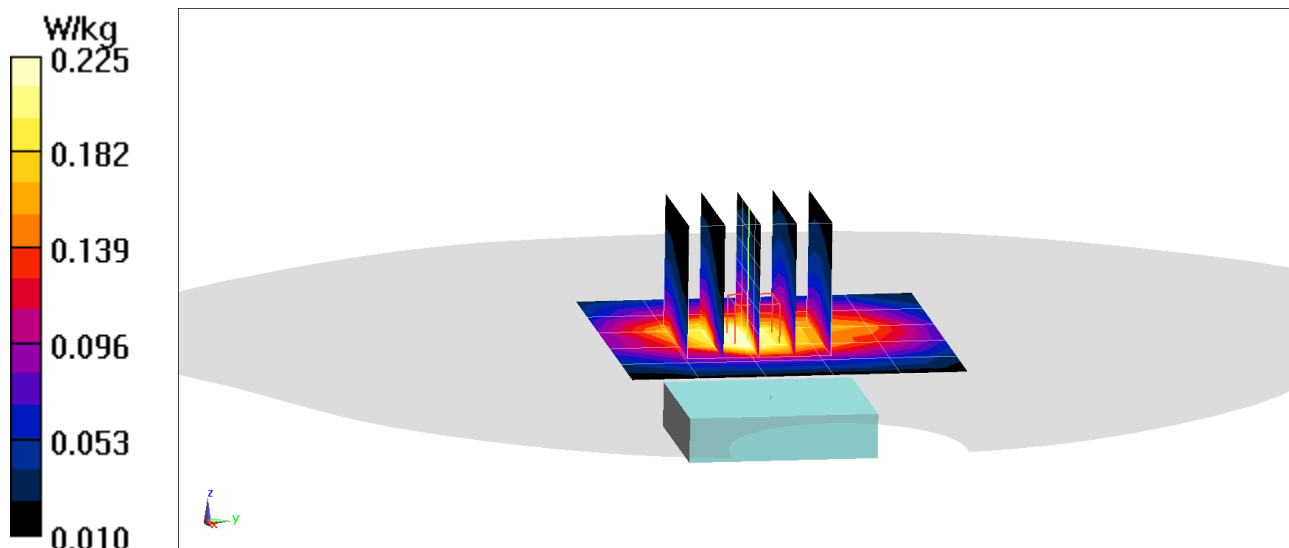
Reference Value = 11.46 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.174 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00BQ617

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Head Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.431 \text{ S/m}$; $\epsilon_r = 38.823$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-29-2020; Ambient Temp: 20.1°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7490; ConvF(8.27, 8.27, 8.27) @ 1880 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1900, Head SAR, Front side, Mid.ch
Aluminum, Metal Loop Wristband

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

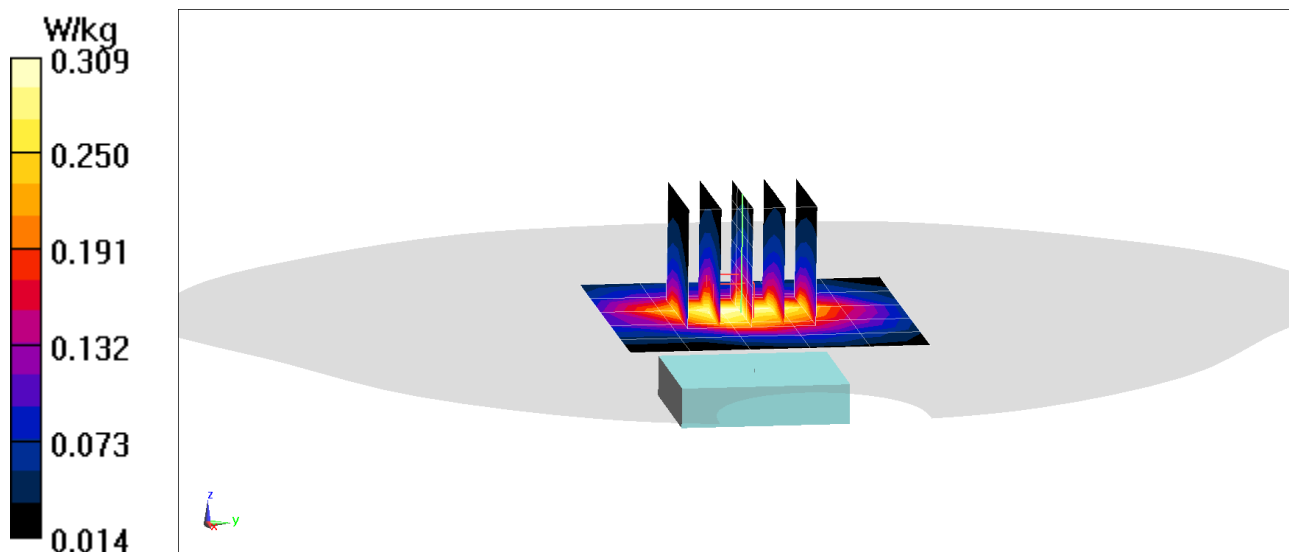
Reference Value = 13.19 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.238 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 64.1%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ008Q617

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 MHz Head Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.886 \text{ S/m}$; $\epsilon_r = 42.544$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-25-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7532; ConvF(10.72, 10.72, 10.72) @ 707.5 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset
Aluminum, Sport Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

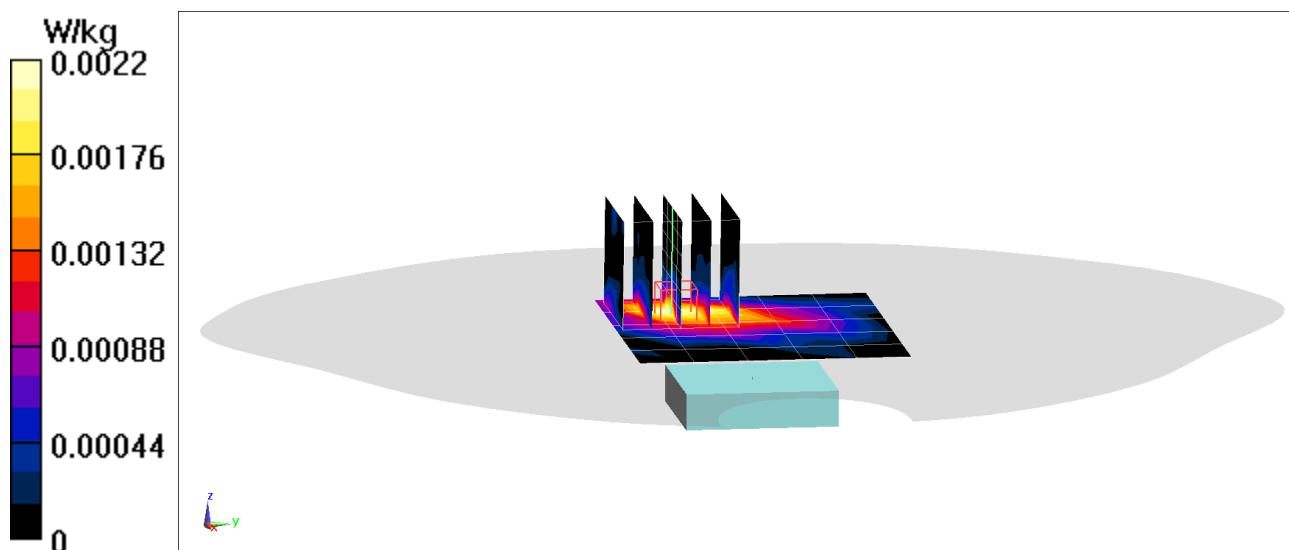
Reference Value = 1.245 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.00370 W/kg

SAR(1 g) = 0.000964 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 57.7%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00BQ61Y

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 MHz Head Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 42.378$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-25-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7532; ConvF(10.72, 10.72, 10.72) @ 782 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13, Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset
Titanium, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

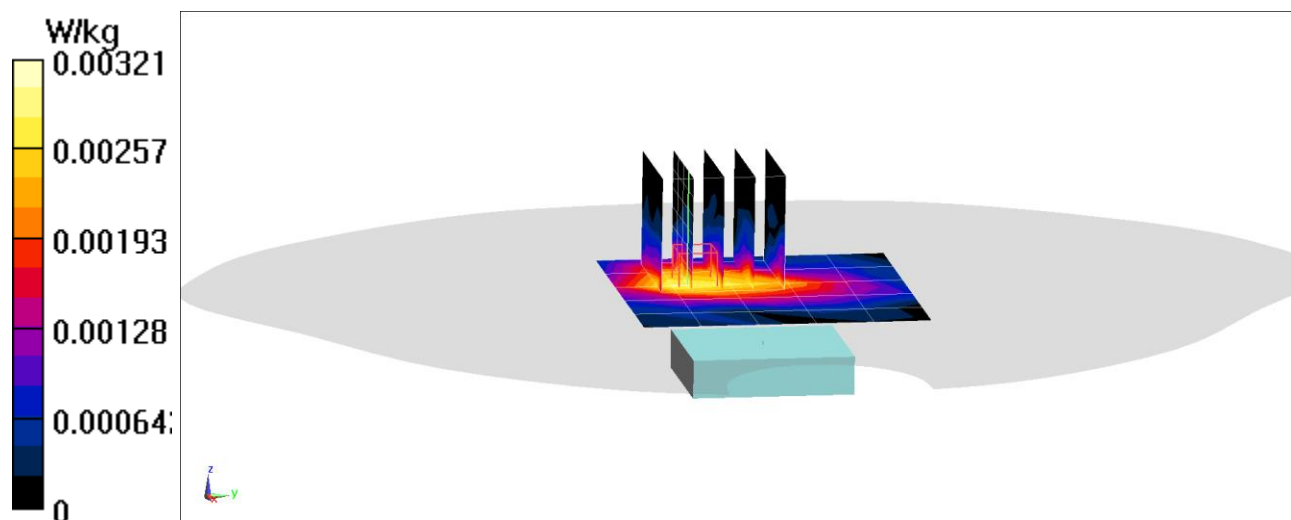
Reference Value = 1.526 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.00494 W/kg

SAR(1 g) = 0.00231 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50.9%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR01KQ61L

Communication System: UID 0, _LTE Band 26; Frequency: 819 MHz; Duty Cycle: 1:1

Medium: 835 MHz Head Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 40.449$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-26-2020; Ambient Temp: 22.7°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7427; ConvF(9.58, 9.58, 9.58) @ 819 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.), Head SAR, Front side, Low.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset
Stainless Steel, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

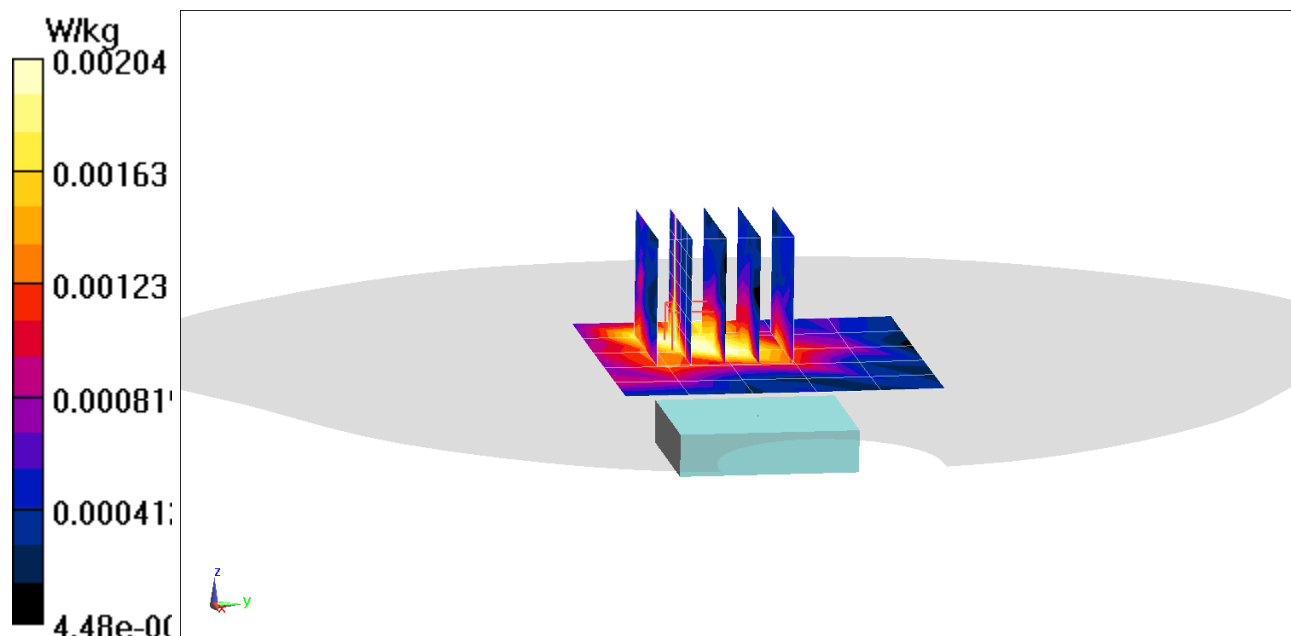
Reference Value = 1.225 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.00315 W/kg

SAR(1 g) = 0.00168 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 95.7%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00VQ617

Communication System: UID 0, LTE Band 5 (Cell.); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 MHz Head Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.874 \text{ S/m}$; $\epsilon_r = 40.45$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-29-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7427; ConvF(9.58, 9.58, 9.58) @ 836.5 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset
Aluminum, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

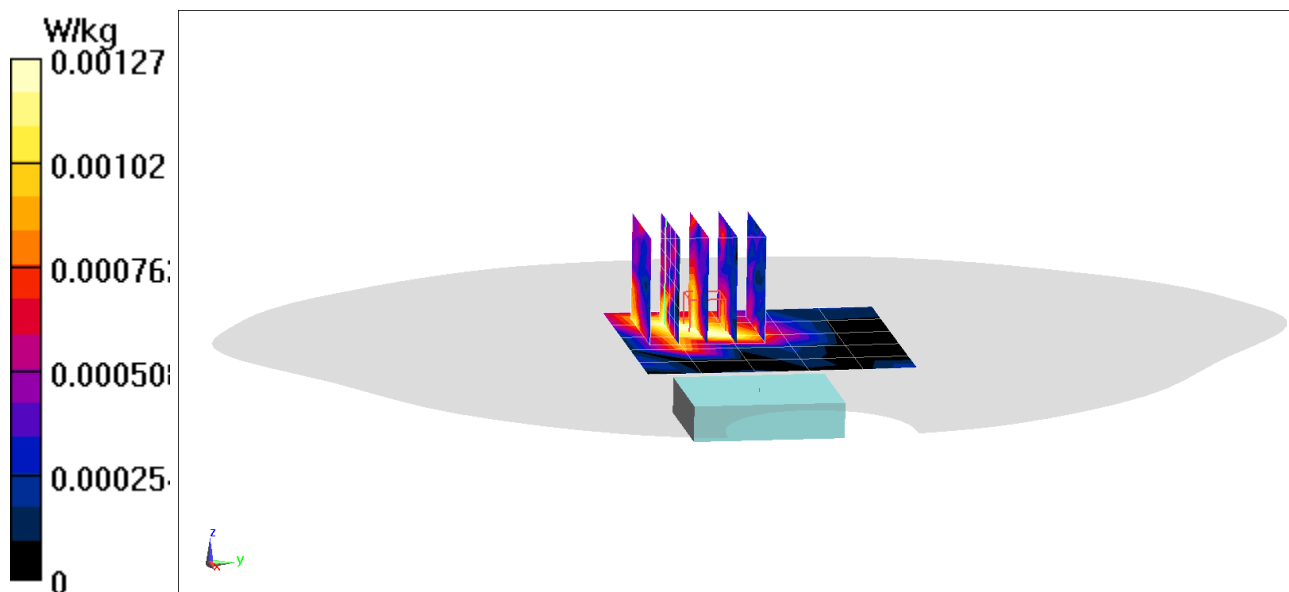
Reference Value = 1.270 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.00219 W/kg

SAR(1 g) = 0.00123 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 87%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00FQ61L

Communication System: UID 0, _LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Head Medium parameters used (interpolated):

$f = 1720 \text{ MHz}$; $\sigma = 1.341 \text{ S/m}$; $\epsilon_r = 40.512$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-07-2020; Ambient Temp: 22.6°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7420; ConvF(8.39, 8.39, 8.39) @ 1720 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), Head SAR, Front side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset
Stainless Steel, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

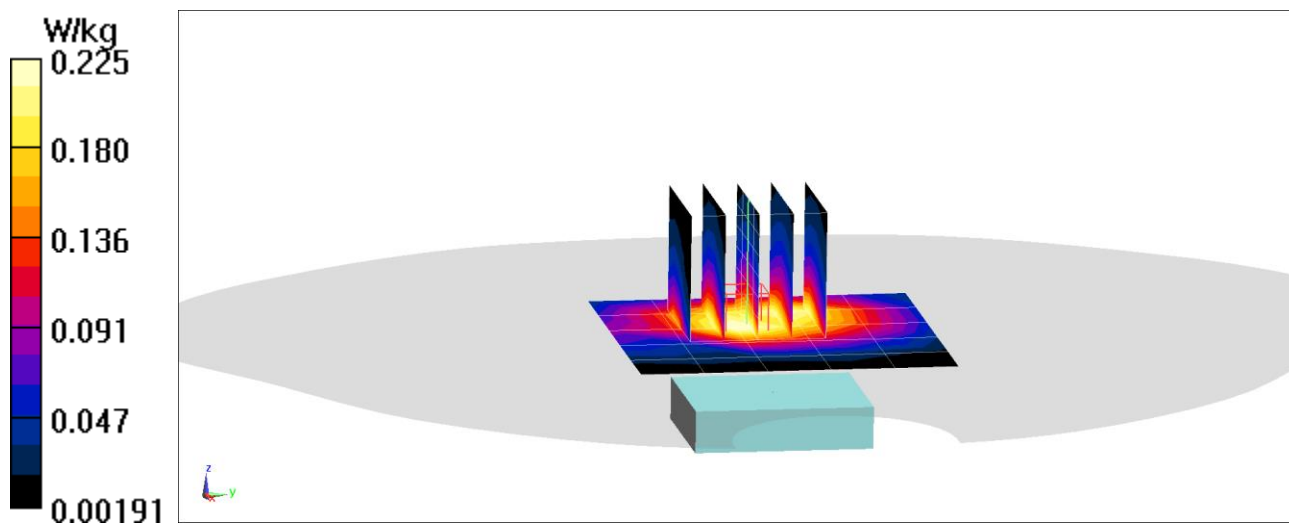
Reference Value = 11.70 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.174 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.6%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR004Q61Y

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Head Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 39.009$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-24-2020; Ambient Temp: 20.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7490; ConvF(8.27, 8.27, 8.27) @ 1882.5 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Head SAR, Front side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset
Titanium, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

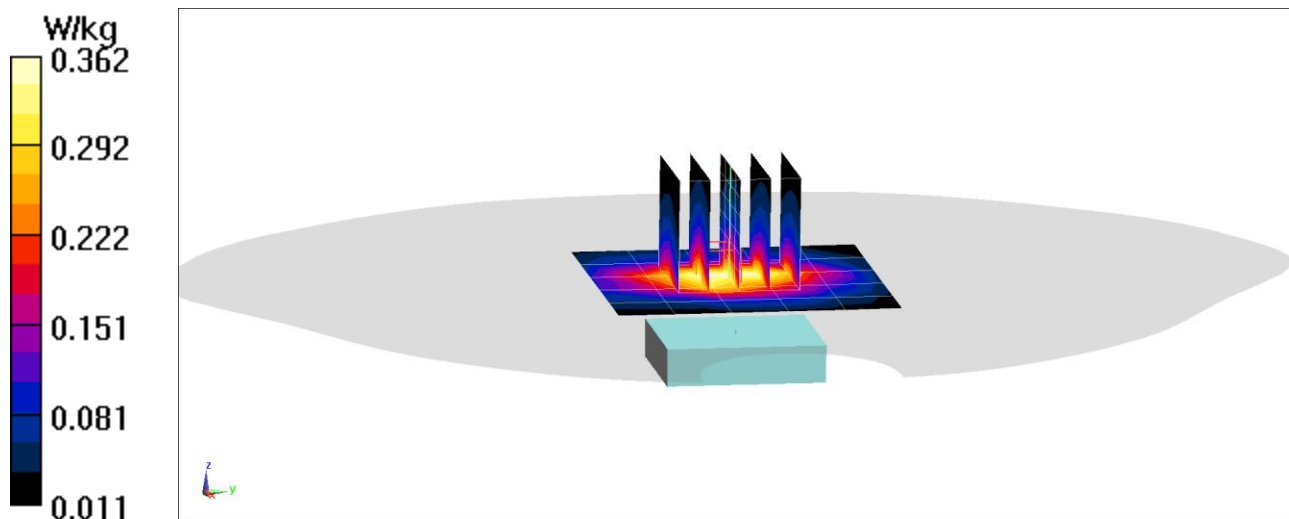
Reference Value = 14.65 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.285 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.2%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00TQ61L

Communication System: UID 0, LTE Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used (interpolated):

$f = 2535 \text{ MHz}$; $\sigma = 1.982 \text{ S/m}$; $\epsilon_r = 38.576$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7490; ConvF(7.64, 7.64, 7.64) @ 2535 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7, Head SAR, Front side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset
Stainless Steel, Sport Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

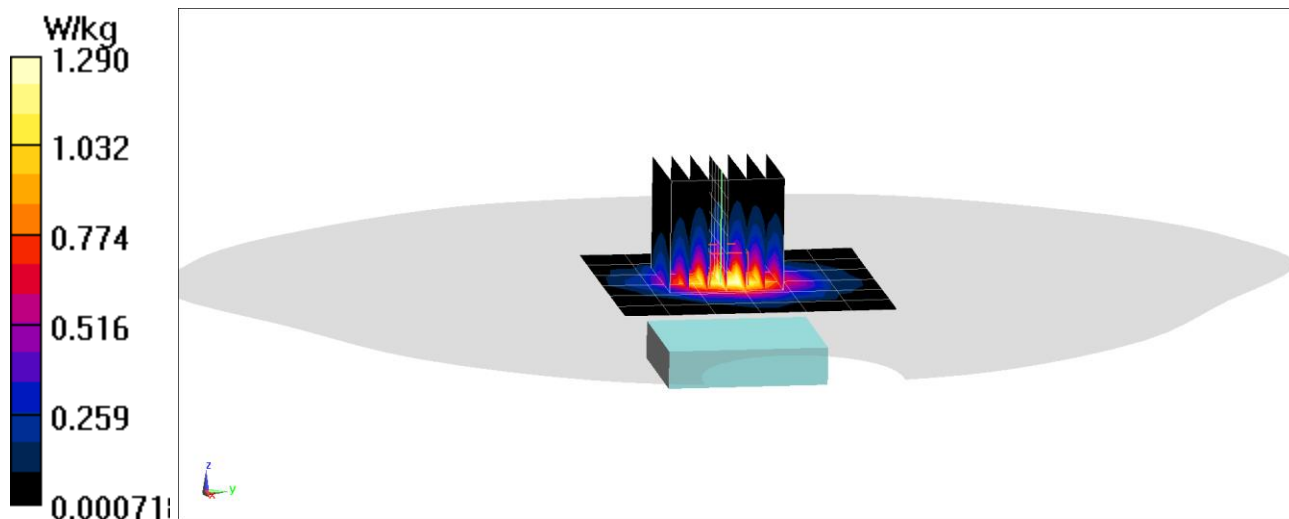
Reference Value = 21.94 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.874 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00QQ61L

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium: 2450 MHz Head Medium parameters used:

$f = 2550$ MHz; $\sigma = 1.999$ S/m; $\epsilon_r = 38.517$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7490; ConvF(7.64, 7.64, 7.64) @ 2549.5 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41, Head SAR, Front side, Low-Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset
Stainless Steel, Sport Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

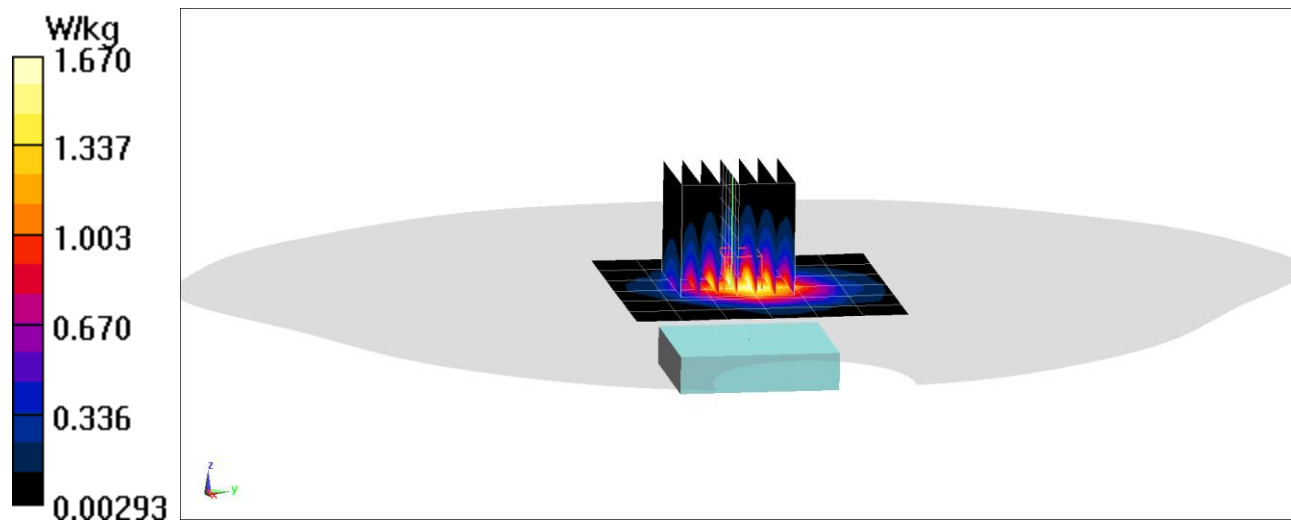
Reference Value = 24.38 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.09 W/kg

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR012Q61L

Communication System: UID 0, _IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 1.864 \text{ S/m}$; $\epsilon_r = 38.646$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-22-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7490; ConvF(7.84, 7.84, 7.84) @ 2437 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b, 22 MHz Bandwidth,
Head SAR, Ch 6, 1 Mbps, Front Side
Stainless Steel, Sport Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

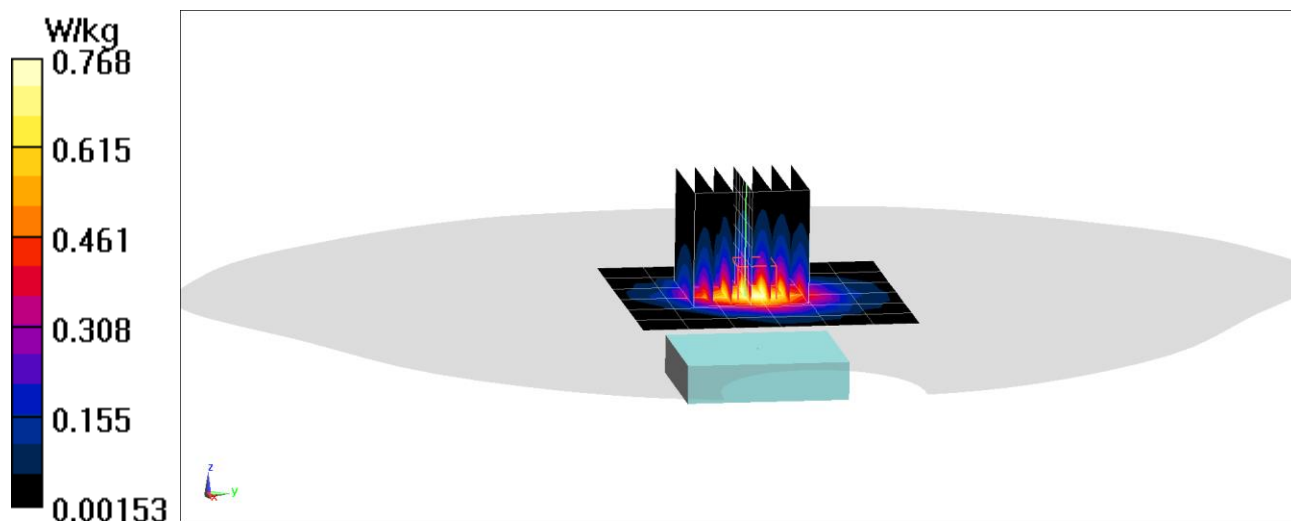
Reference Value = 16.99 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.979 W/kg

SAR(1 g) = 0.514 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR004Q61Y

Communication System: UID 0, _IEEE 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: 5 GHz Head Medium parameters used:

$f = 5260 \text{ MHz}$; $\sigma = 4.541 \text{ S/m}$; $\epsilon_r = 36.042$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-20-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(5.18, 5.18, 5.18) @ 5260 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11a, UNII-2A, 20 MHz Bandwidth,
Head SAR, Ch 52, 6 Mbps, Front Side
Titanium, Metal Links Wristband**

Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

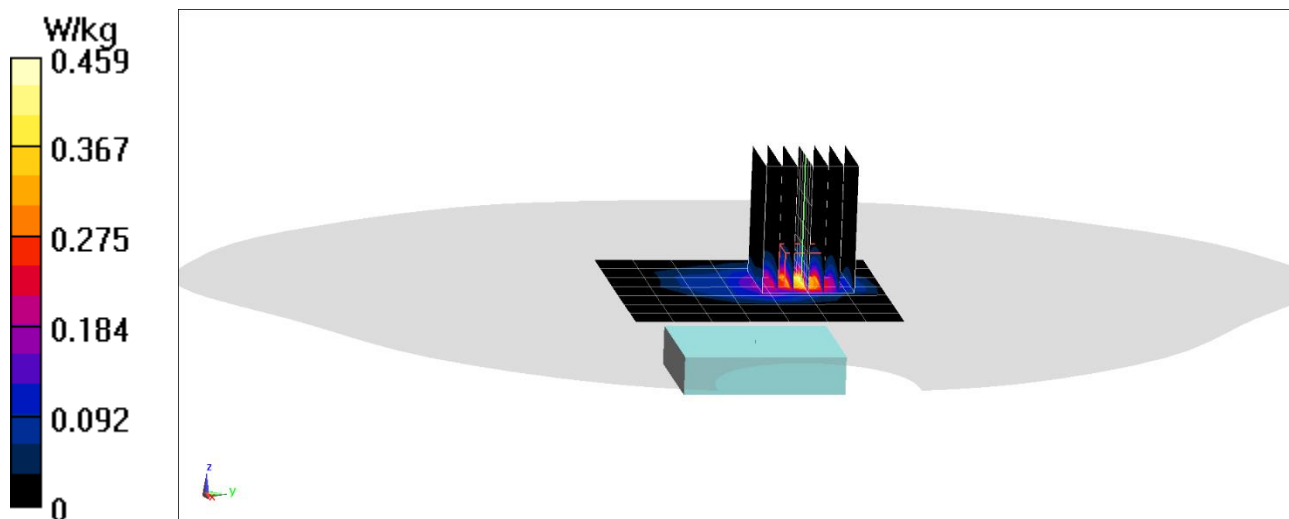
Reference Value = 7.074 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.721 W/kg

SAR(1 g) = 0.198 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 65.8%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00TQ61L

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 1.878 \text{ S/m}$; $\epsilon_r = 38.282$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-26-2020; Ambient Temp: 21.1°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7490; ConvF(7.84, 7.84, 7.84) @ 2480 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Head SAR, Ch 78, 1 Mbps, Front Side
Stainless Steel, Sport Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

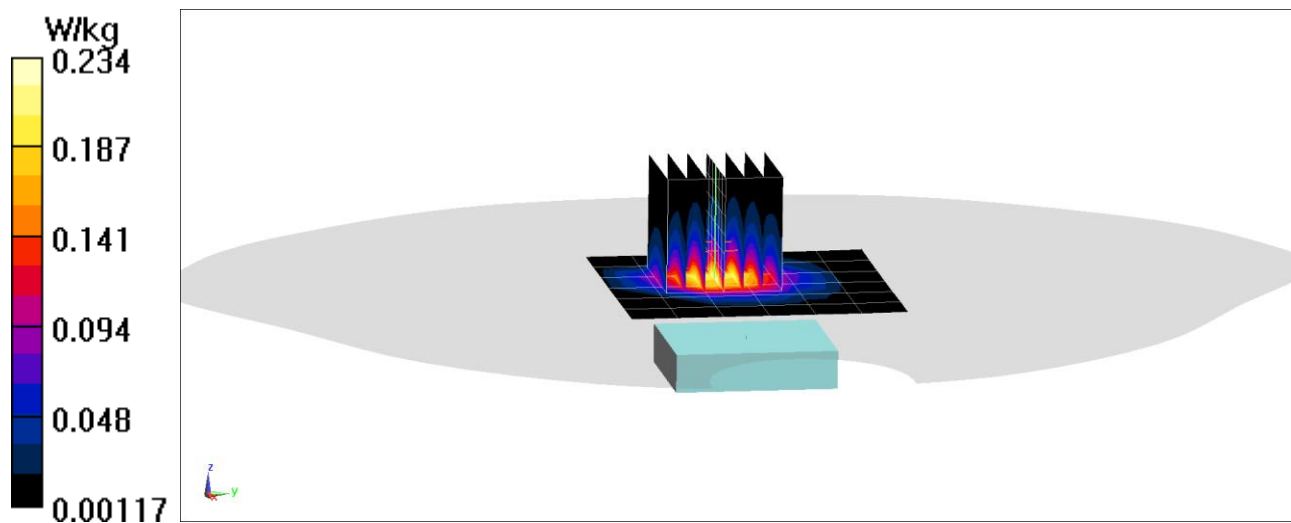
Reference Value = 9.604 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.153 W/kg

Smallest distance from peaks to all points 3 dB below = 13 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00WQ617

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 850 MHz Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.968 \text{ S/m}$; $\epsilon_r = 53.116$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-06-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 836.6 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 850, Extremity SAR, Back side, Mid.ch
Aluminum, Metal Links Wristband

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4

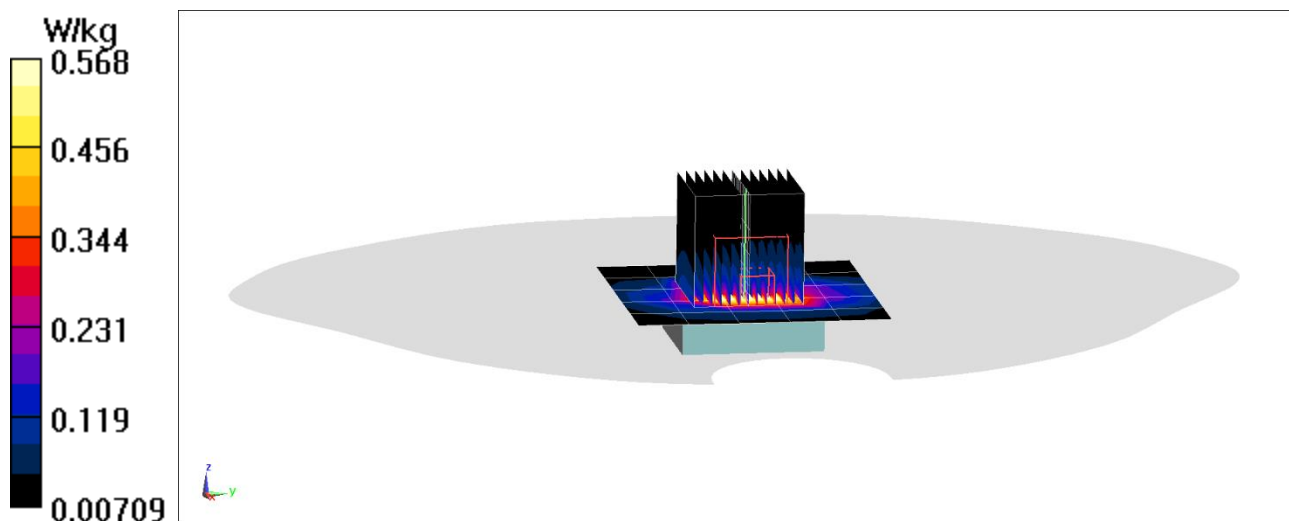
Reference Value = 12.07 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(10 g) = 0.152 W/kg

Smallest distance from peaks to all points 3 dB below = 3.2 mm

Ratio of SAR at M2 to SAR at M1 = 59%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00EQ617

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Body Medium parameters used (interpolated):

$f = 1732.4$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 51.544$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-30-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3837; ConvF(7.88, 7.88, 7.88) @ 1732.4 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1750, Extremity SAR, Back side, Mid.ch
Aluminum, Metal Links Wristband

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

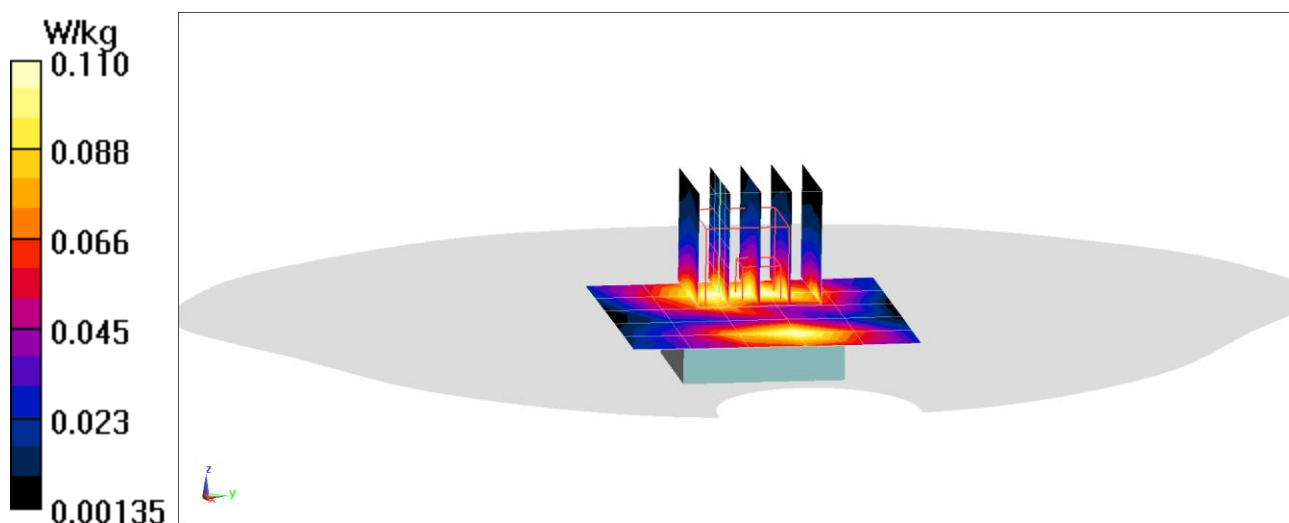
Reference Value = 7.420 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(10 g) = 0.051 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.2%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00NQ61Y

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.563 \text{ S/m}$; $\epsilon_r = 51.333$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-30-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1880 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1900, Extremity SAR, Back side, Mid.ch
Titanium, Metal Links Wristband

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

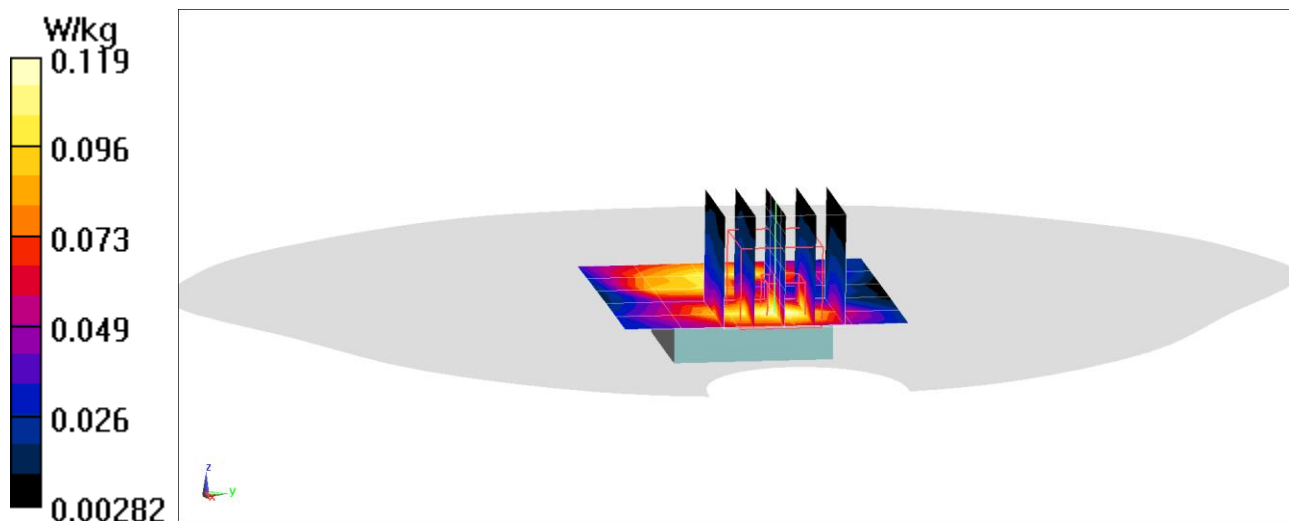
Reference Value = 7.713 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(10 g) = 0.049 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 58.7%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00XQ617

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 MHz Body Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 53.017$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-06-2020; Ambient Temp: 21.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 707.5 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Extremity SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset
Aluminum, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4

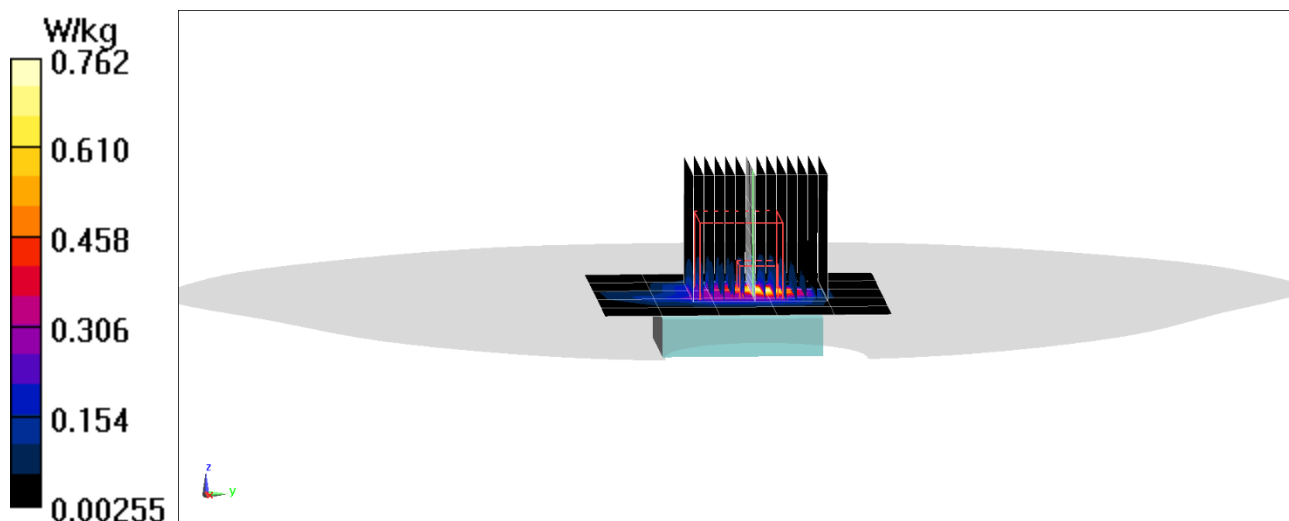
Reference Value = 14.87 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.81 W/kg

SAR(10 g) = 0.132 W/kg

Smallest distance from peaks to all points 3 dB below = 3.8 mm

Ratio of SAR at M2 to SAR at M1 = 40.3%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00AQ61Y

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 MHz Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.956 \text{ S/m}$; $\epsilon_r = 52.905$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-06-2020; Ambient Temp: 21.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 782 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13, Extremity SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset
Titanium, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (15x15x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4

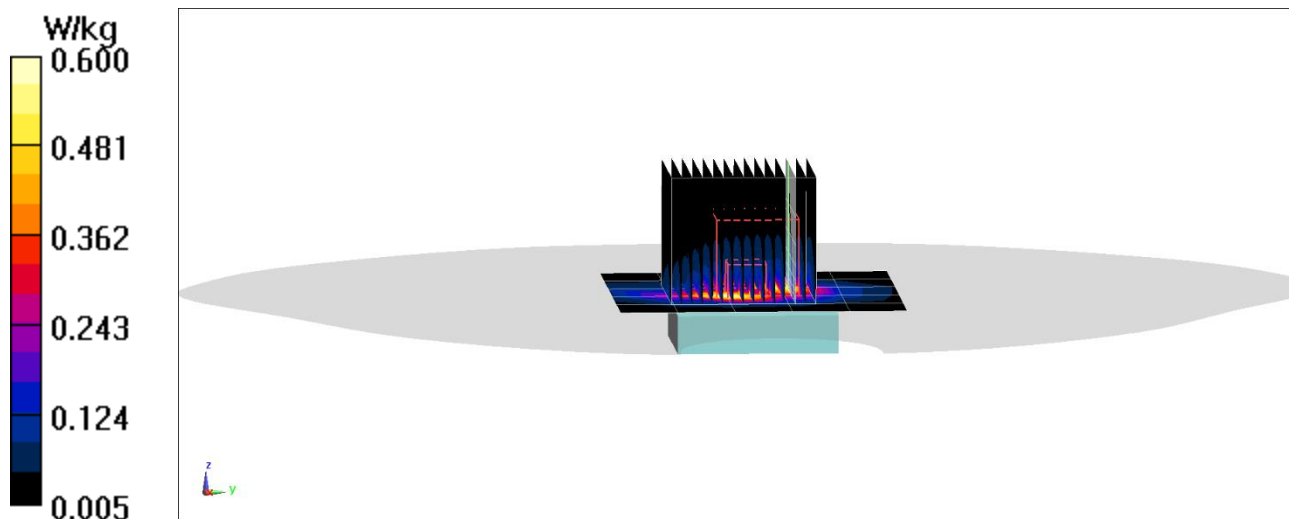
Reference Value = 17.28 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.36 W/kg

SAR(10 g) = 0.180 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 42.1%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00WQ617

Communication System: UID 0, LTE Band 26; Frequency: 819 MHz; Duty Cycle: 1:1

Medium: 850 MHz Body Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 0.967 \text{ S/m}$; $\epsilon_r = 54.012$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-19-2020; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 819 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.), Extremity SAR, Back side, Low.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset
Aluminum, Metal Links Wrist band**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (14x13x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4

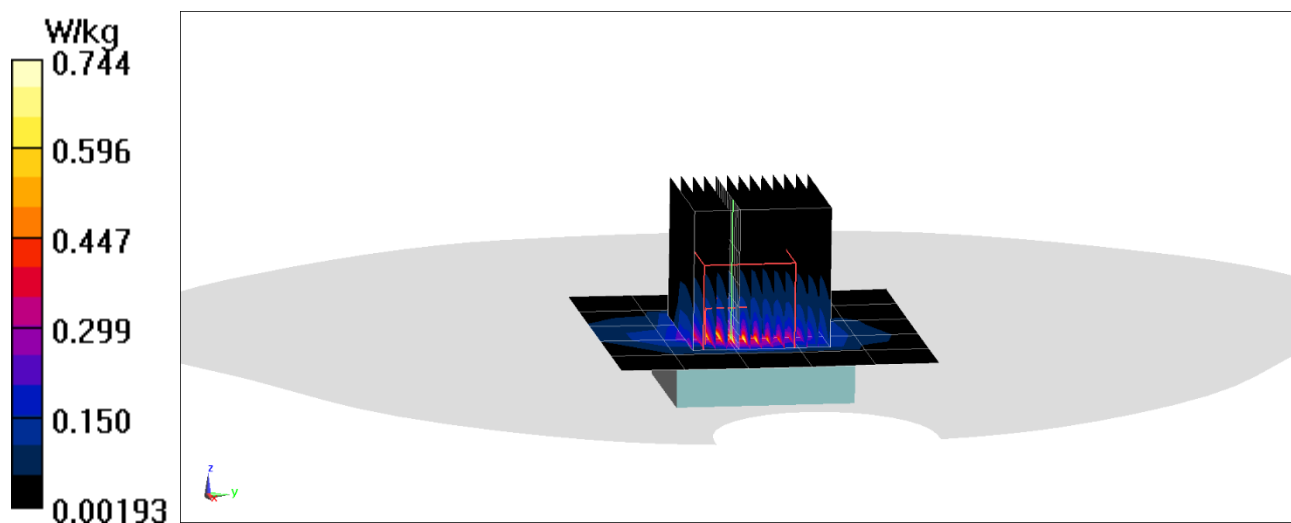
Reference Value = 7.870 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(10 g) = 0.134 W/kg

Smallest distance from peaks to all points 3 dB below larger than 2.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00XQ617

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 850 MHz Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.981 \text{ S/m}$; $\epsilon_r = 53.63$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-08-2020; Ambient Temp: 20.5°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 836.5 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), Extremity SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset
Aluminum, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.8mm, dy=2.8mm, dz=1.4mm; Graded Ratio: 1.4

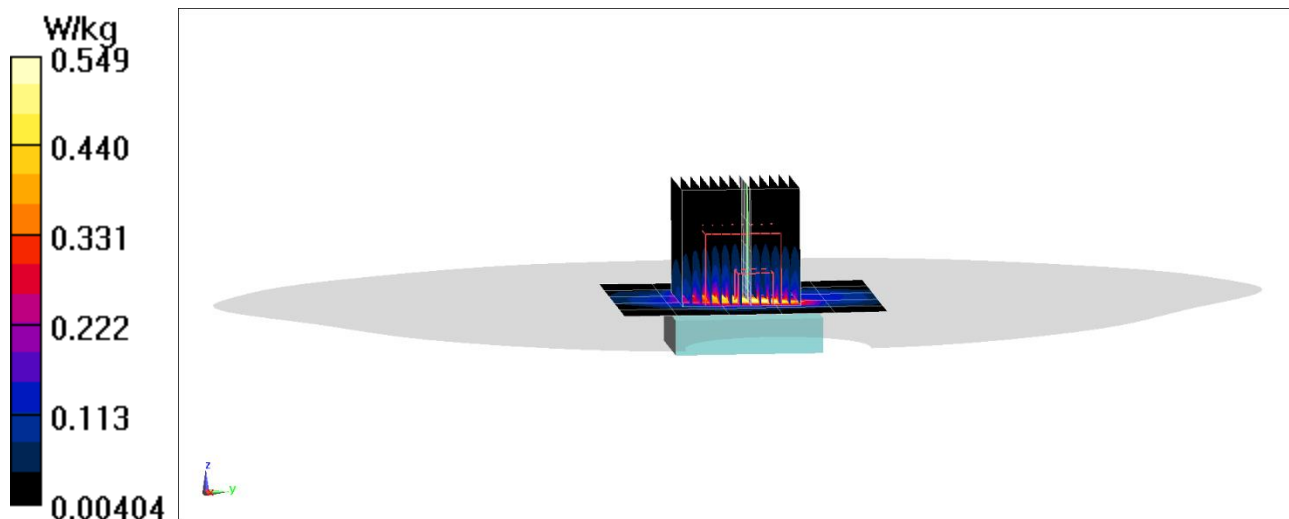
Reference Value = 15.66 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(10 g) = 0.118 W/kg

Smallest distance from peaks to all points 3 dB below = 3.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00FQ61L

Communication System: UID 0, _LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Body Medium parameters used (interpolated):

$f = 1720 \text{ MHz}$; $\sigma = 1.447 \text{ S/m}$; $\epsilon_r = 51.27$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-26-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3837; ConvF(7.88, 7.88, 7.88) @ 1720 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), Extremity SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset
Stainless Steel, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

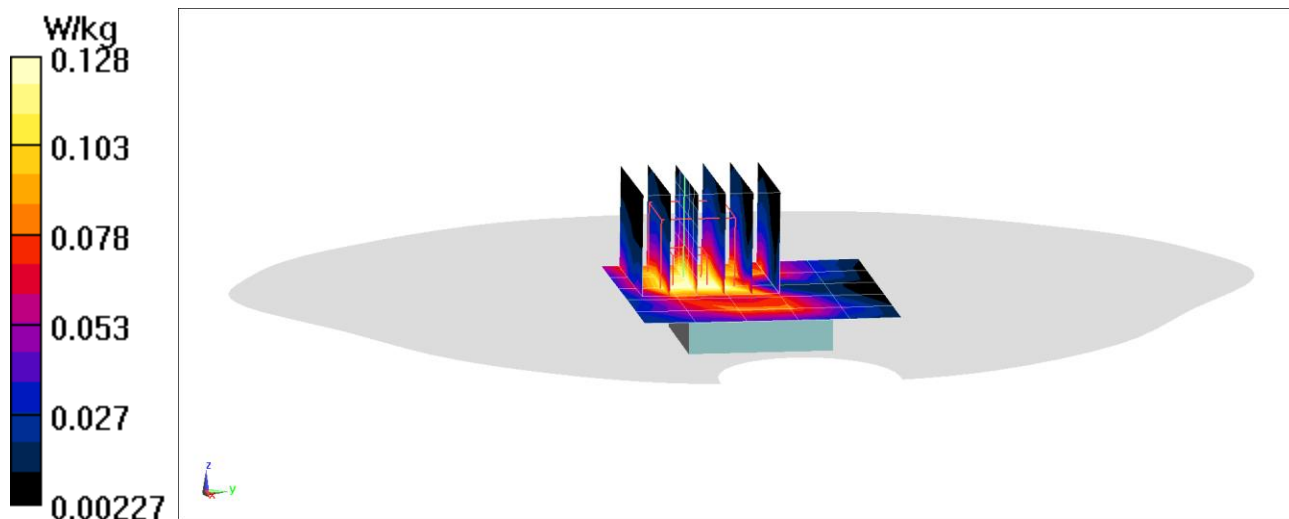
Reference Value = 8.436 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(10 g) = 0.057 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

Ratio of SAR at M2 to SAR at M1 = 67.1%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CQ00VQ617

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Body Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.562$ S/m; $\epsilon_r = 51.097$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-26-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1882.5 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Extremity SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset
Aluminum, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

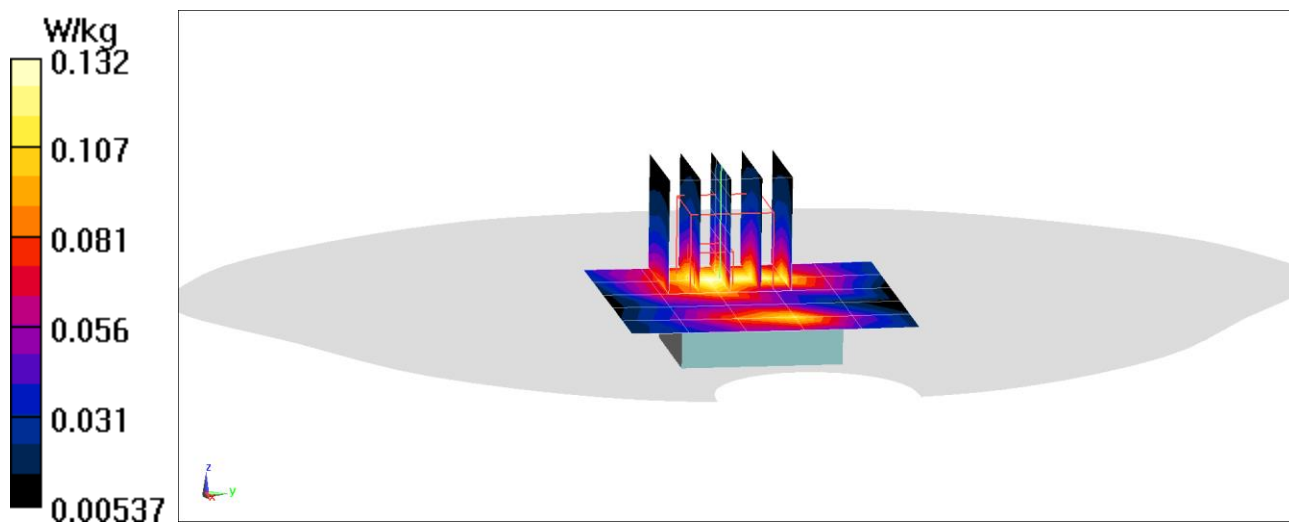
Reference Value = 8.108 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(10 g) = 0.062 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00EQ61L

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$; $\sigma = 2.114 \text{ S/m}$; $\epsilon_r = 51.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06-30-2020; Ambient Temp: 22.7°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7491; ConvF(7.57, 7.57, 7.57) @ 2510 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7, Extremity SAR, Back side, Low Ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset
Stainless Steel, Metal Loop Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

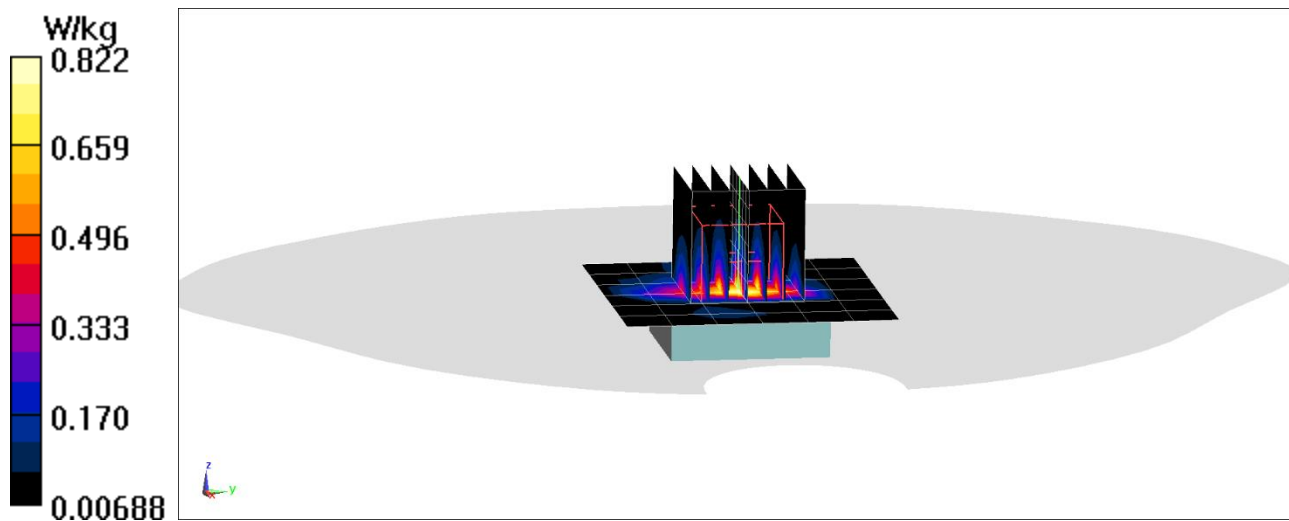
Reference Value = 17.68 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(10 g) = 0.221 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00TQ61L

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium: 2450 MHz Body Medium parameters used (interpolated):

$f = 2593 \text{ MHz}$; $\sigma = 2.219 \text{ S/m}$; $\epsilon_r = 50.439$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-19-2020; Ambient Temp: 22.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7416; ConvF(7.23, 7.23, 7.23) @ 2593 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41, Extremity SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset
Stainless Steel, Metal Loop Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

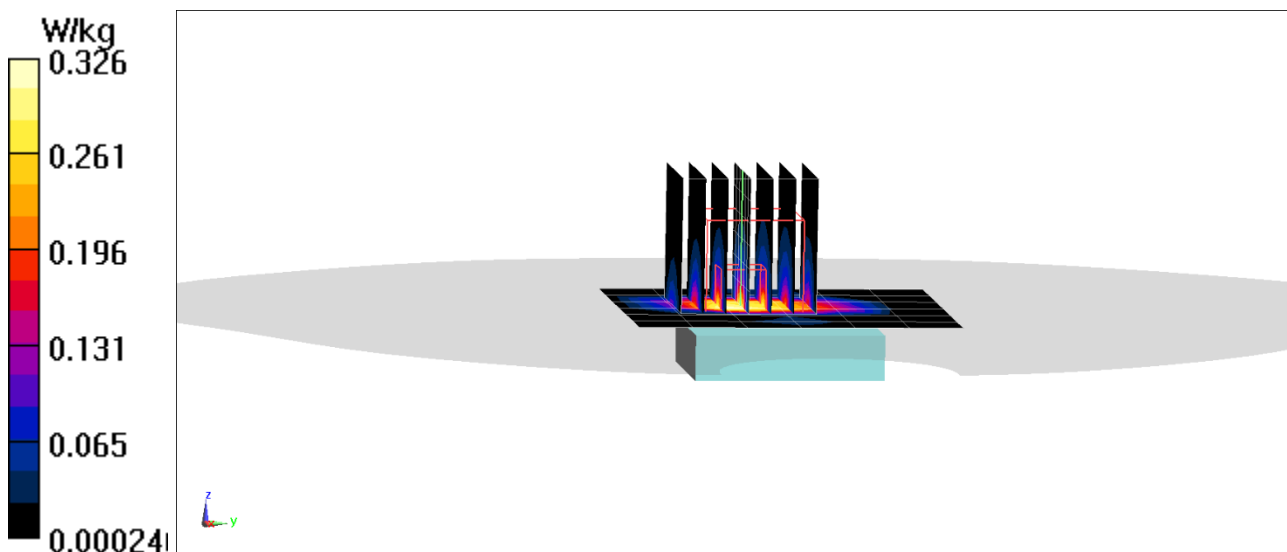
Reference Value = 14.12 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.886 W/kg

SAR(10 g) = 0.151 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 45.4%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00UQ61Y

Communication System: UID 0, IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 2.008 \text{ S/m}$; $\epsilon_r = 51.728$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-22-2020; Ambient Temp: 22.5°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2437 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode:IEEE 802.11b, 22 MHz Bandwidth,
Extremity SAR, Ch 6, 1 Mbps, Back Side
Titanium, Sport Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

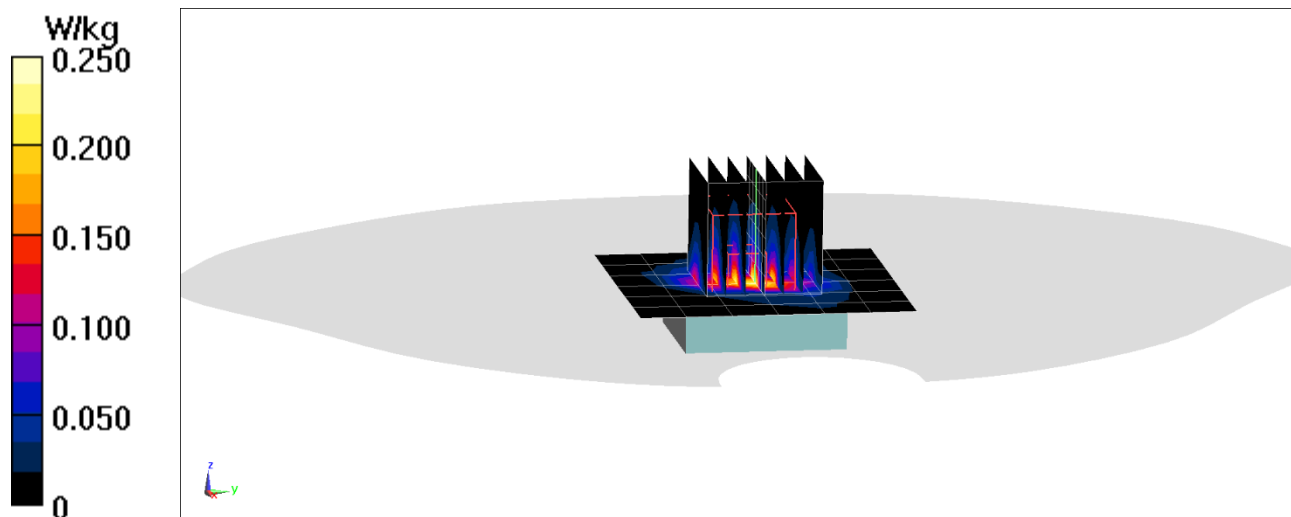
Reference Value = 9.456 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(10 g) = 0.059 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00TQ61L

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5825 \text{ MHz}$; $\sigma = 6.205 \text{ S/m}$; $\epsilon_r = 46.069$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-24-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; ConvF(4.18, 4.18, 4.18) @ 5825 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11a, UNII-3, 20 MHz Bandwidth,
Extremity SAR, Ch 165, 6 Mbps, Back Side
Stainless Steel, Metal Links Wristband**

Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

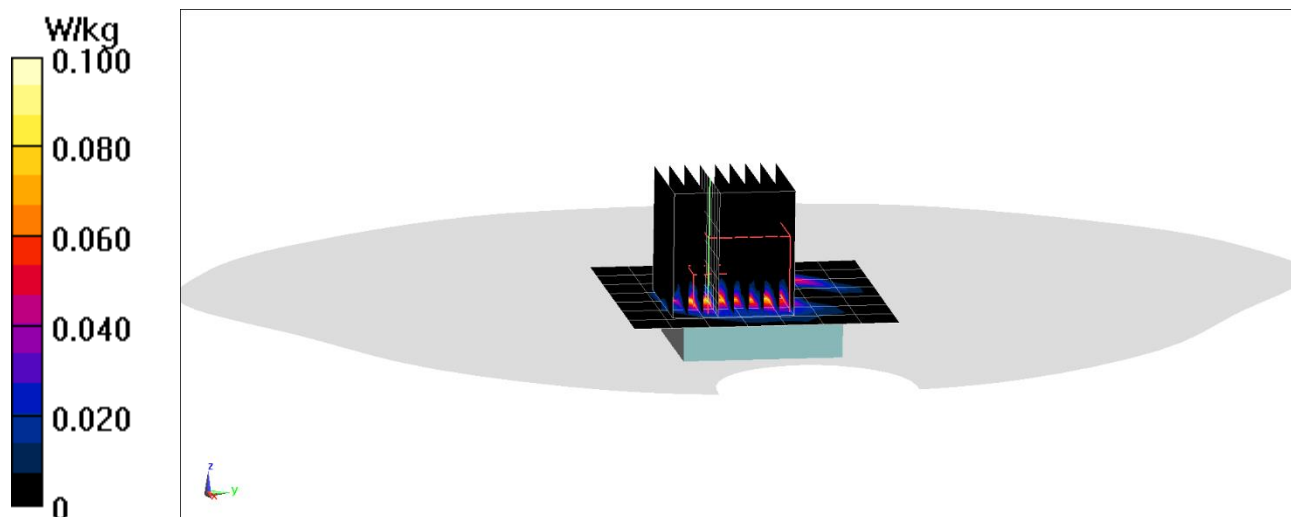
Reference Value = 2.324 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(10 g) = 0.00894 W/kg

Smallest distance from peaks to all points 3 dB below = 4.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%



PCTEST

DUT: BCG-A2294; Type: Watch; Serial: GY6CR00KQ61Y

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 2.089 \text{ S/m}$; $\epsilon_r = 51.684$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2480 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Extremity SAR, Ch 78, 1 Mbps, Back Side
Titanium, Metal Loop Wristband**

Area Scan (7x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

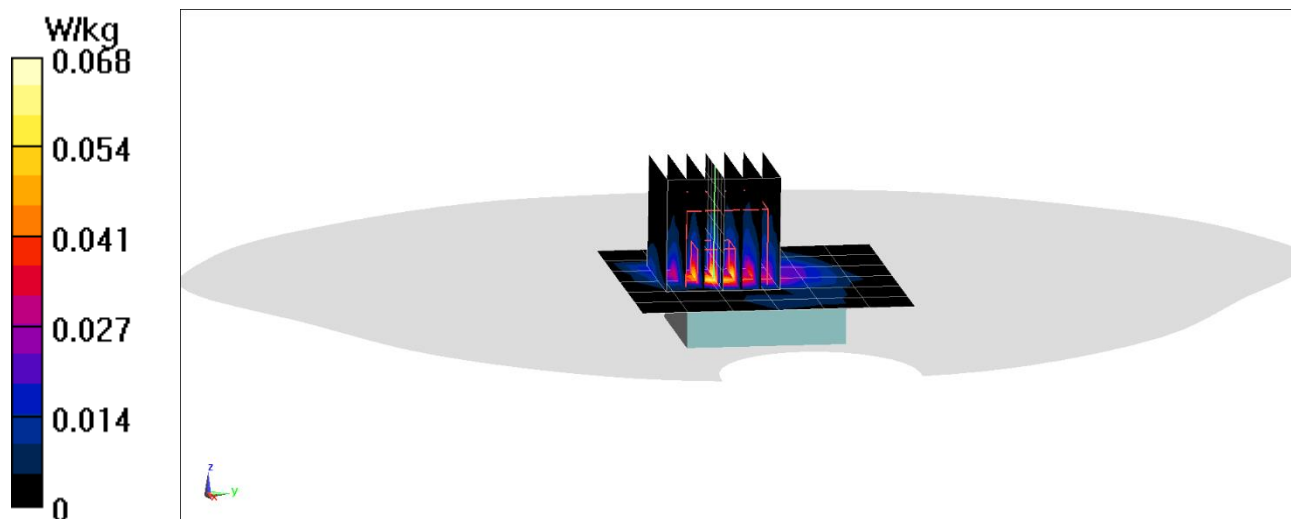
Reference Value = 4.747 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0890 W/kg

SAR(10 g) = 0.015 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 48.9%



APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1034

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 MHz Head Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 42.435$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06-25-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7532; ConvF(10.72, 10.72, 10.72) @ 750 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

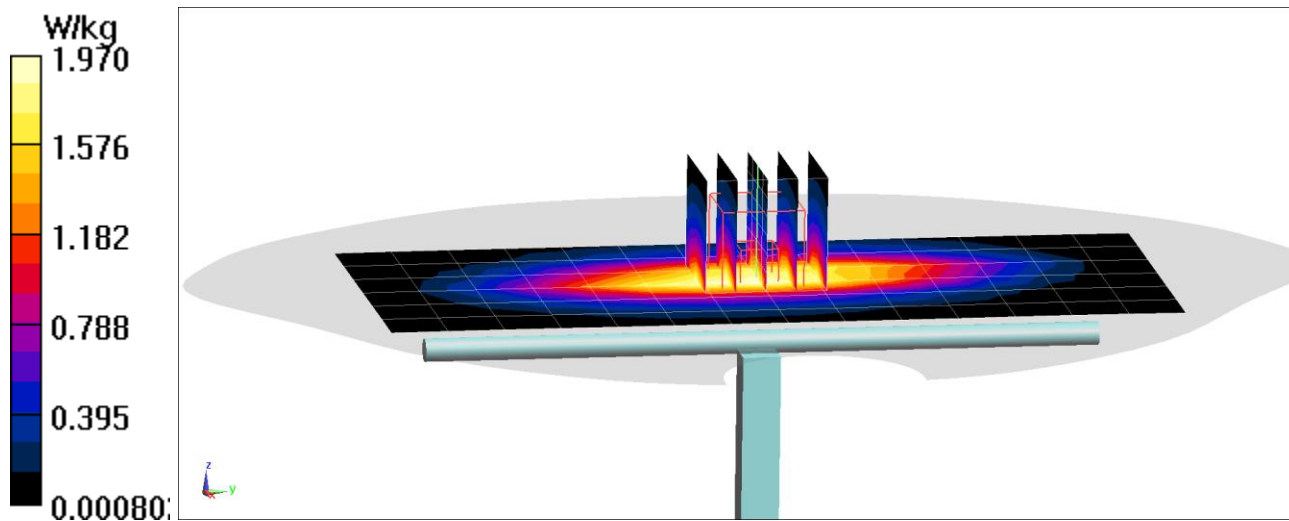
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 1.63 W/kg

Deviation(1 g) = -2.04%



PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 MHz Head Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.885 \text{ S/m}$; $\epsilon_r = 40.251$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06-26-2020; Ambient Temp: 22.7°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7427; ConvF(9.58, 9.58, 9.58) @ 835 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

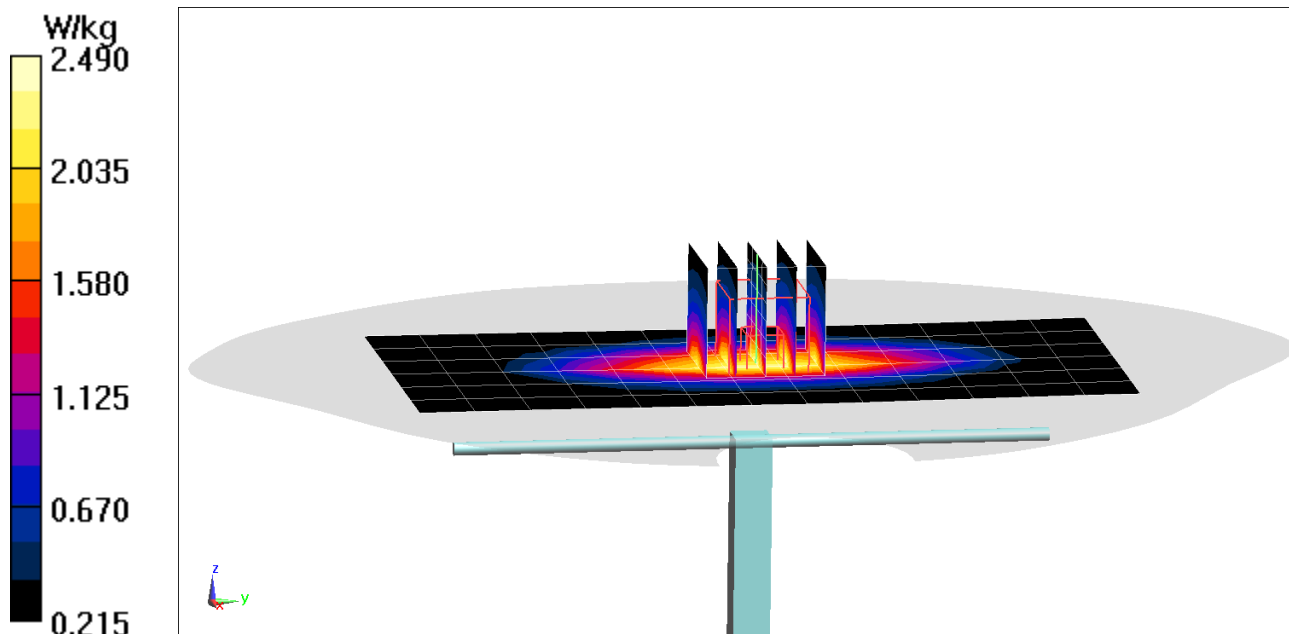
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 1.91 W/kg

Deviation(1 g) = -0.52%



PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1009

Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 835 MHz Head Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.878 \text{ S/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06-29-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7427; ConvF(9.58, 9.58, 9.58) @ 850 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

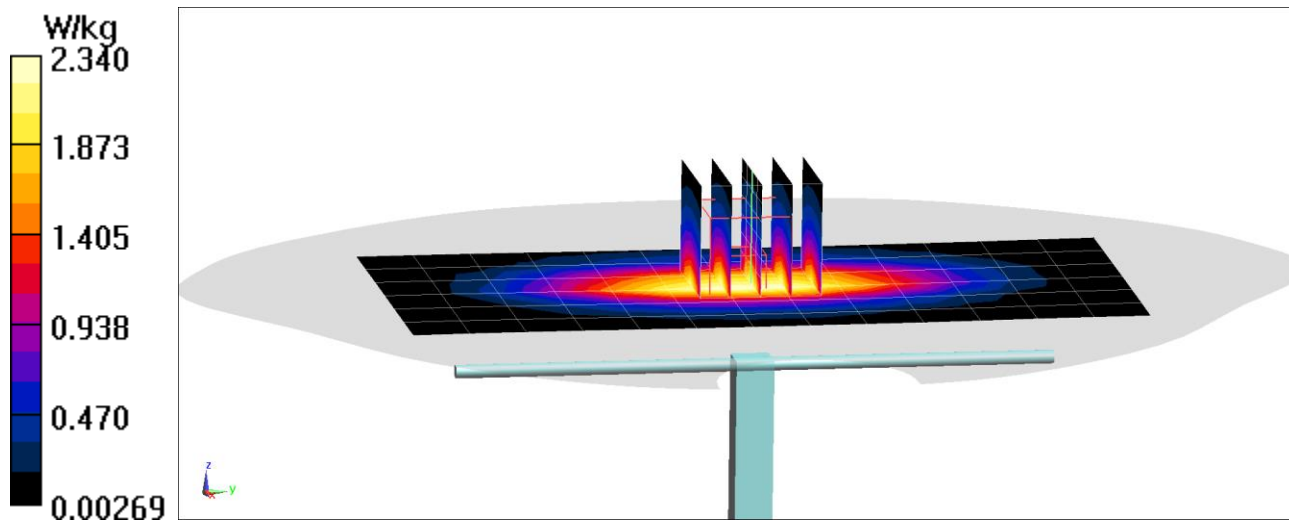
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 1.92 W/kg

Deviation(1 g) = -4.00%



PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 835 MHz Head Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.895 \text{ S/m}$; $\epsilon_r = 40.86$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-01-2020; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7427; ConvF(9.58, 9.58, 9.58) @ 850 MHz; Calibrated: 2/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

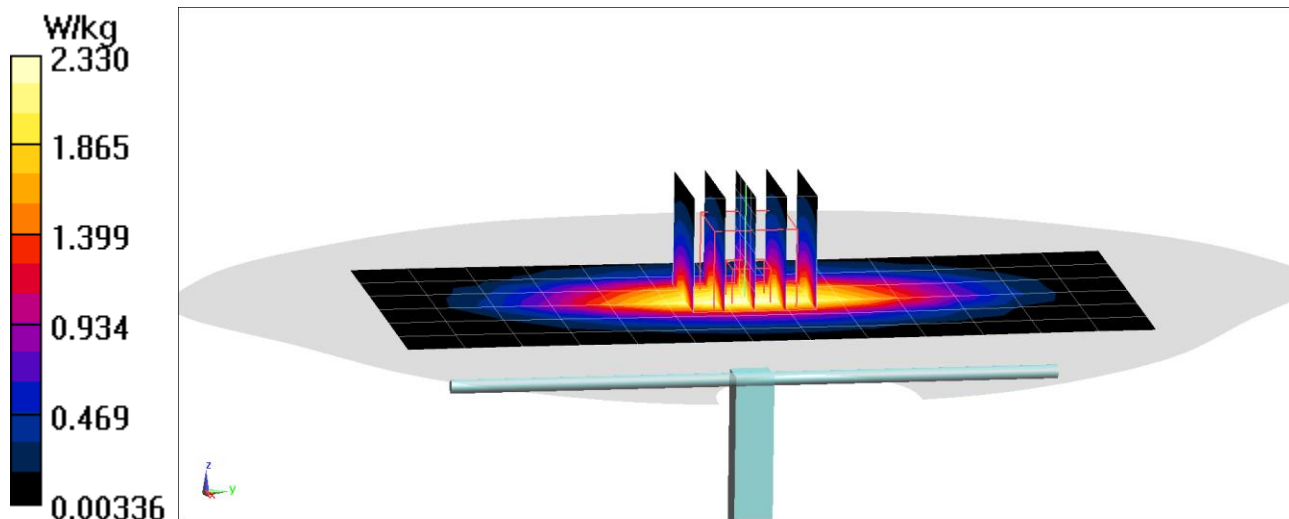
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 1.93 W/kg

Deviation(1 g) = -2.82%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Head Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.359 \text{ S/m}$; $\epsilon_r = 39.227$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-01-2020; Ambient Temp: 23.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7532; ConvF(8.46, 8.46, 8.46) @ 1750 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

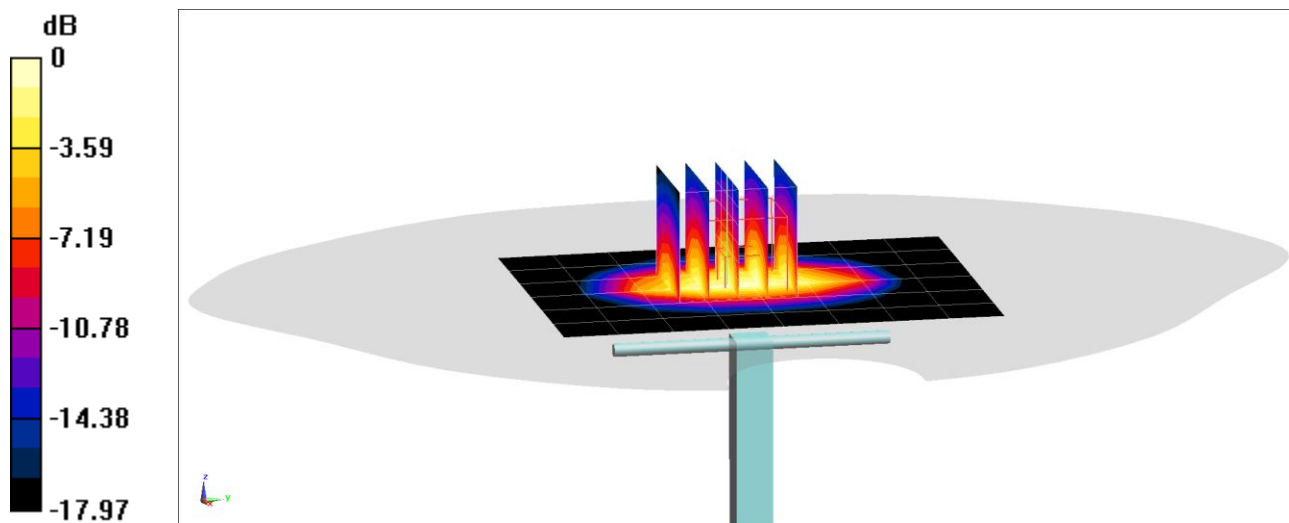
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.02 W/kg

SAR(1 g) = 3.76 W/kg

Deviation(1 g) = 3.30%



0 dB = 5.74 W/kg = 7.59 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1092

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Head Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.36 \text{ S/m}$; $\epsilon_r = 40.469$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-07-2020; Ambient Temp: 22.6°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7420; ConvF(8.39, 8.39, 8.39) @ 1750 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

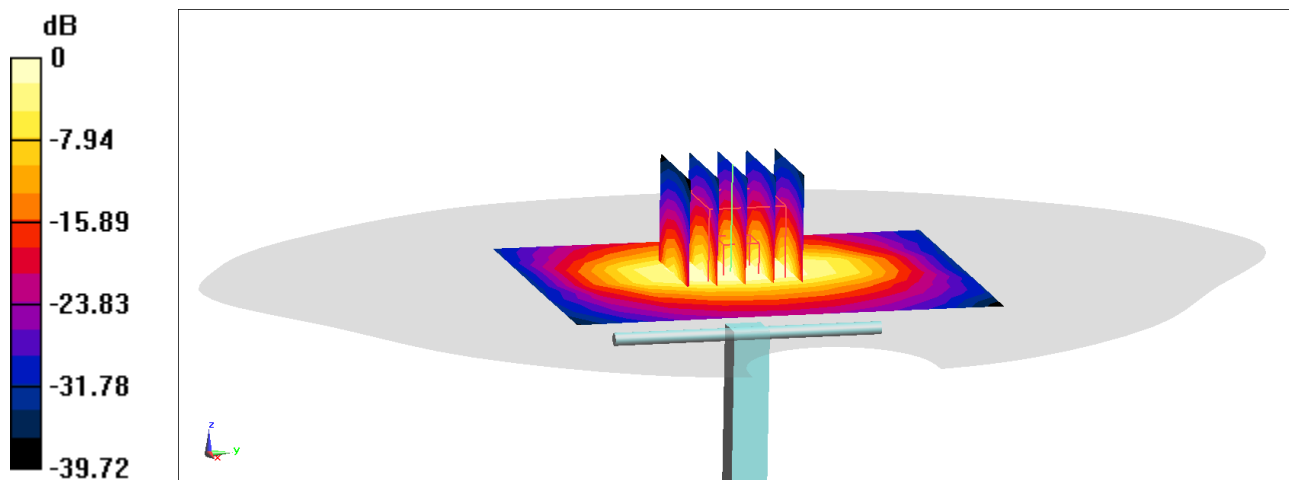
Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 6.27 W/kg

SAR(1 g) = 3.4 W/kg

Deviation(1 g) = -5.82%



0 dB = 3.73 W/kg = 5.72 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Head Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.427 \text{ S/m}$; $\epsilon_r = 38.936$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-24-2020; Ambient Temp: 20.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7490; ConvF(8.27, 8.27, 8.27) @ 1900 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

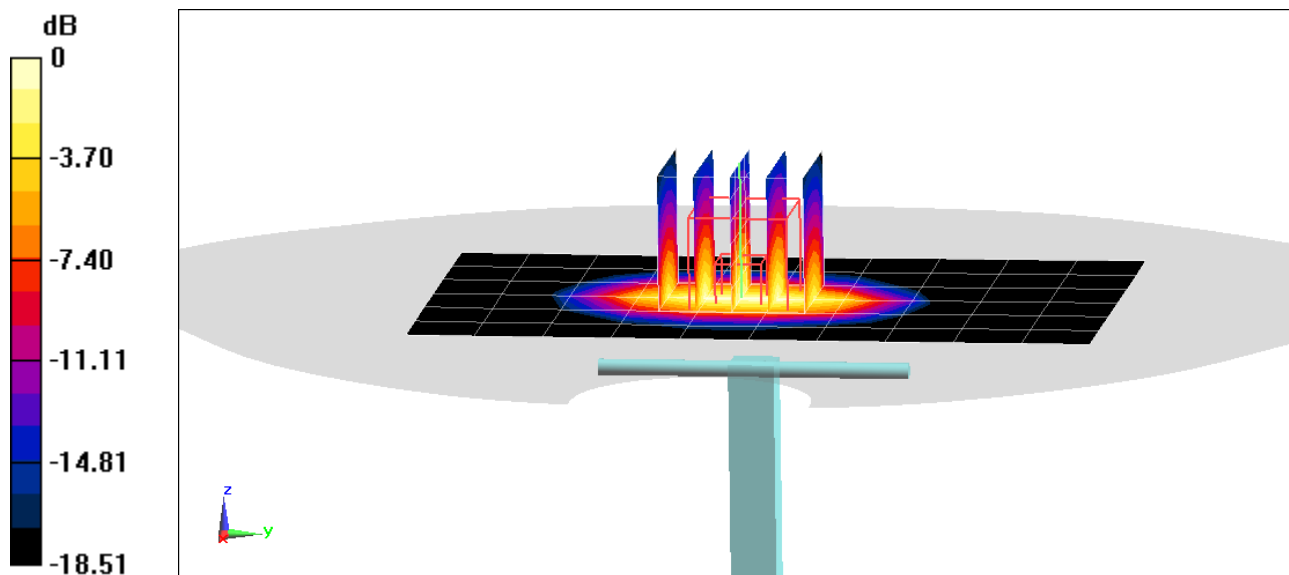
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.17 W/kg

SAR(1 g) = 3.86 W/kg

Deviation(1 g) = -3.98%



0 dB = 6.04 W/kg = 7.81 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Head Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.451 \text{ S/m}$; $\epsilon_r = 38.74$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-29-2020; Ambient Temp: 20.1°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7490; ConvF(8.27, 8.27, 8.27) @ 1900 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

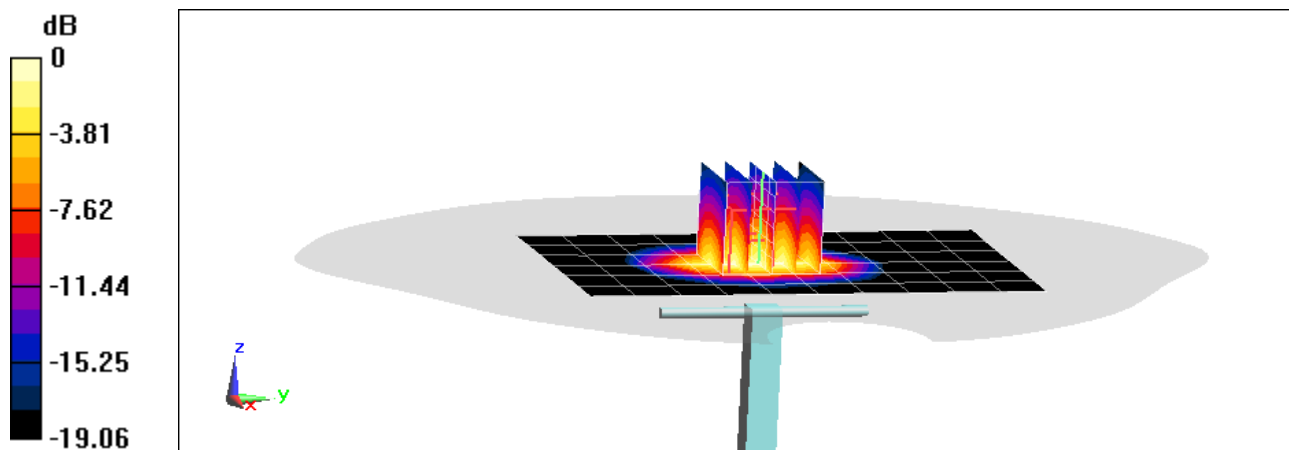
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.10 W/kg

SAR(1 g) = 3.81 W/kg

Deviation(1 g) = -3.54%



0 dB = 5.99 W/kg = 7.77 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.885 \text{ S/m}$; $\epsilon_r = 38.908$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7490; ConvF(7.84, 7.84, 7.84) @ 2450 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

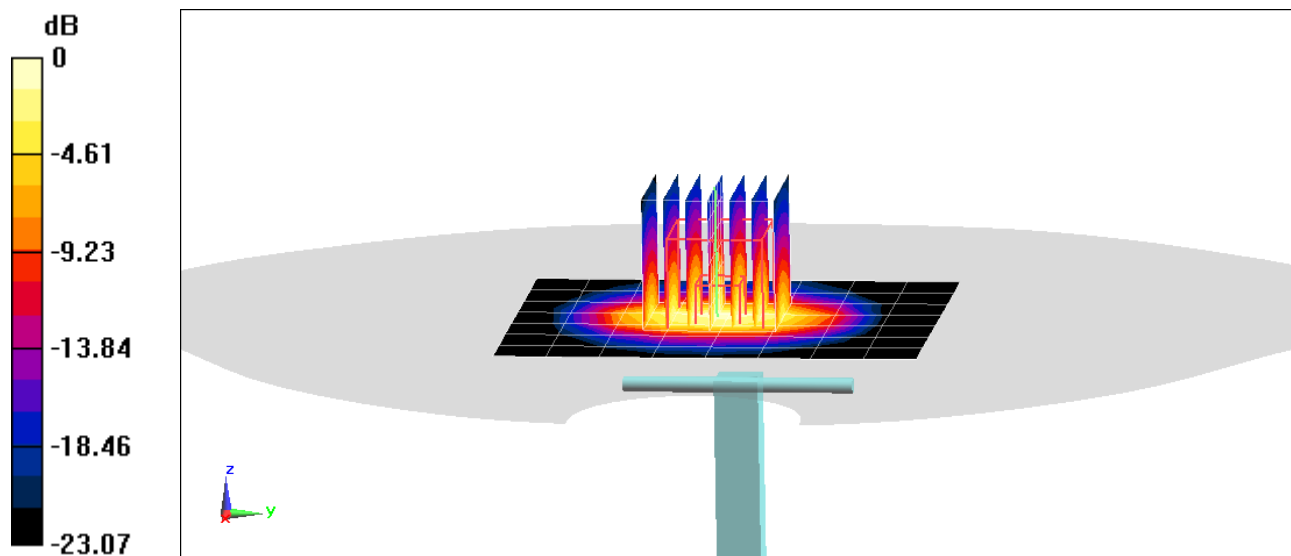
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.0 W/kg

SAR(1 g) = 5.29 W/kg

Deviation(1 g) = -0.38%



0 dB = 8.97 W/kg = 9.53 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.877 \text{ S/m}$; $\epsilon_r = 38.603$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-22-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7490; ConvF(7.84, 7.84, 7.84) @ 2450 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

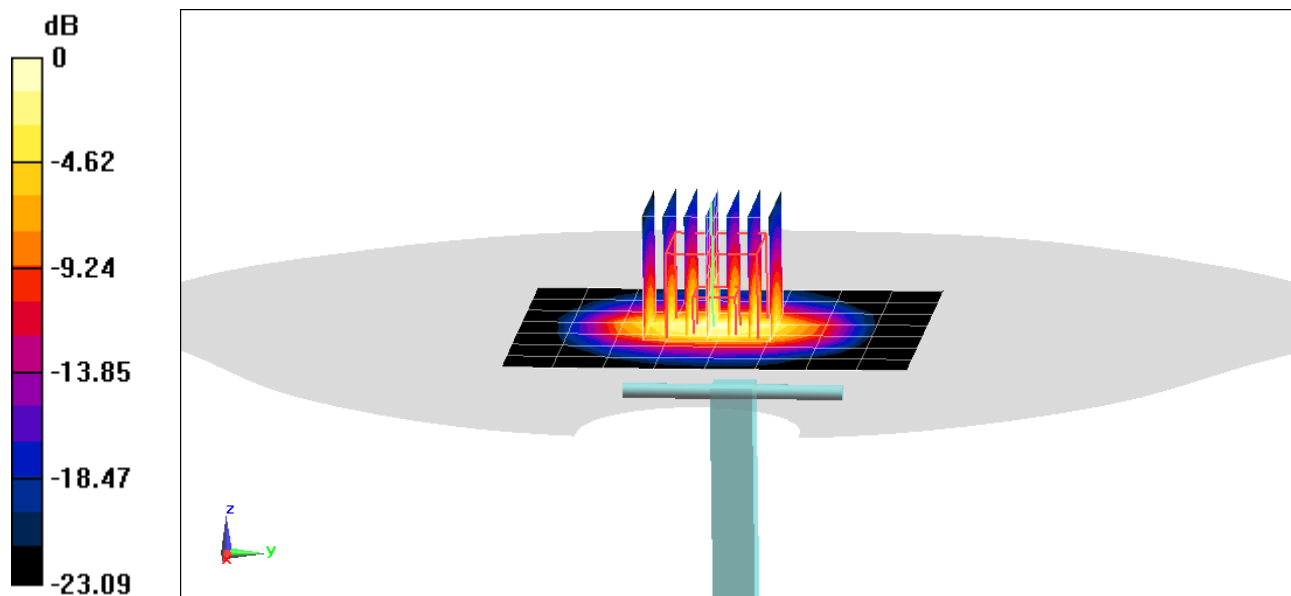
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 12.0 W/kg

SAR(1 g) = 5.17 W/kg

Deviation(1 g) = -2.64%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.845 \text{ S/m}$; $\epsilon_r = 38.397$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-26-2020; Ambient Temp: 21.1°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7490; ConvF(7.84, 7.84, 7.84) @ 2450 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

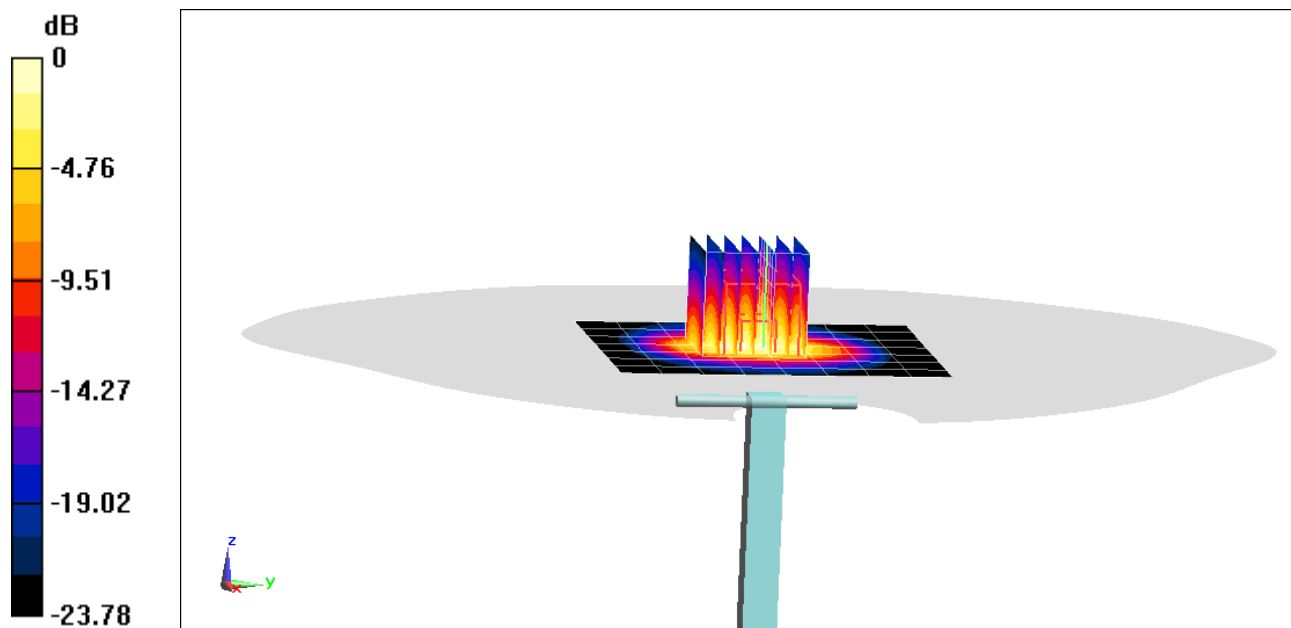
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.03 W/kg

Deviation(1 g) = -1.37%



0 dB = 8.44 W/kg = 9.26 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.833 \text{ S/m}$; $\epsilon_r = 39.442$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-19-2020; Ambient Temp: 20.7°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7490; ConvF(7.84, 7.84, 7.84) @ 2450 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

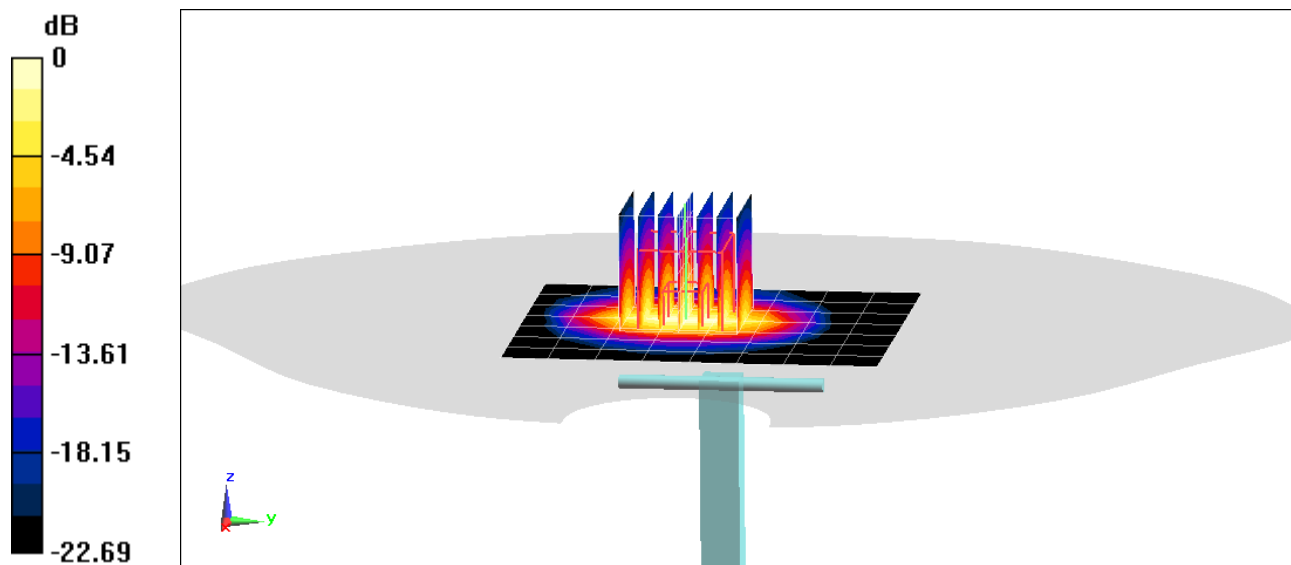
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 5.17 W/kg

Deviation(1 g) = 1.37%



0 dB = 8.78 W/kg = 9.43 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.056$ S/m; $\epsilon_r = 38.327$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7490; ConvF(7.64, 7.64, 7.64) @ 2600 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

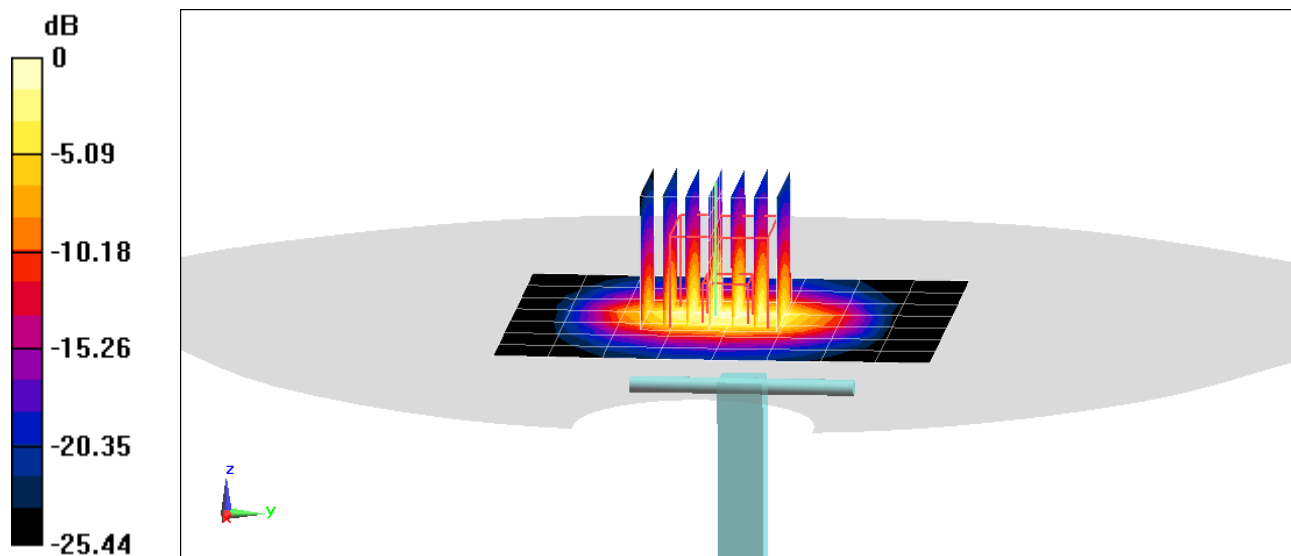
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 13.7 W/kg

SAR(1 g) = 5.79 W/kg

Deviation(1 g) = 1.76%



PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Head Medium parameters used:

$f = 2600$ MHz; $\sigma = 1.999$ S/m; $\epsilon_r = 38.901$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-19-2020; Ambient Temp: 20.7°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7490; ConvF(7.64, 7.64, 7.64) @ 2600 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

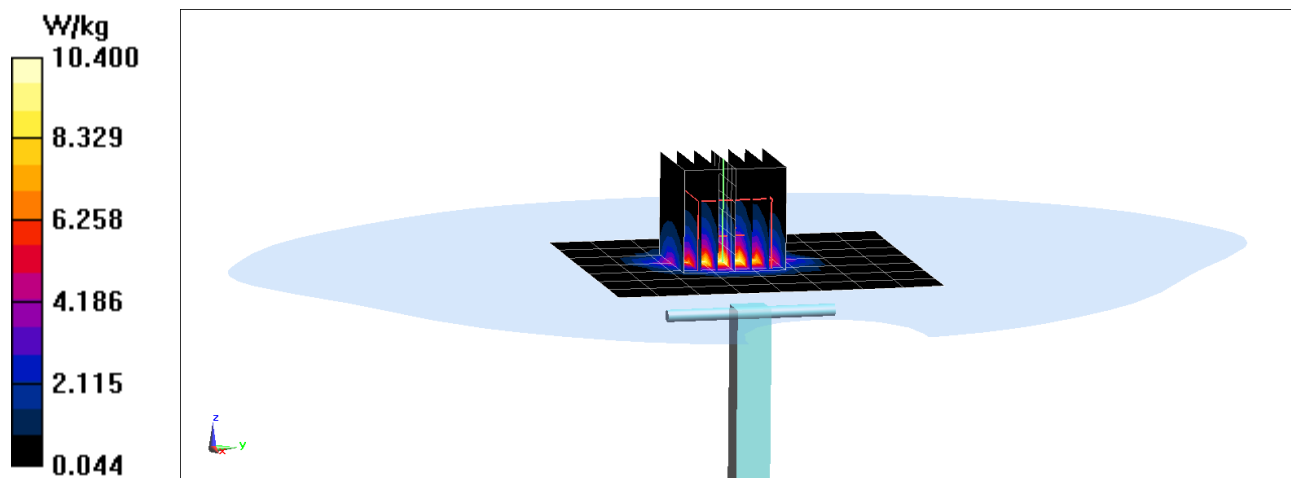
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 13.4 W/kg

SAR(1 g) = 6.05 W/kg

Deviation(1 g) = 6.33%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5 GHz Head Medium parameters used (interpolated):

$f = 5250 \text{ MHz}$; $\sigma = 4.531 \text{ S/m}$; $\epsilon_r = 36.051$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-20-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(5.18, 5.18, 5.18) @ 5250 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

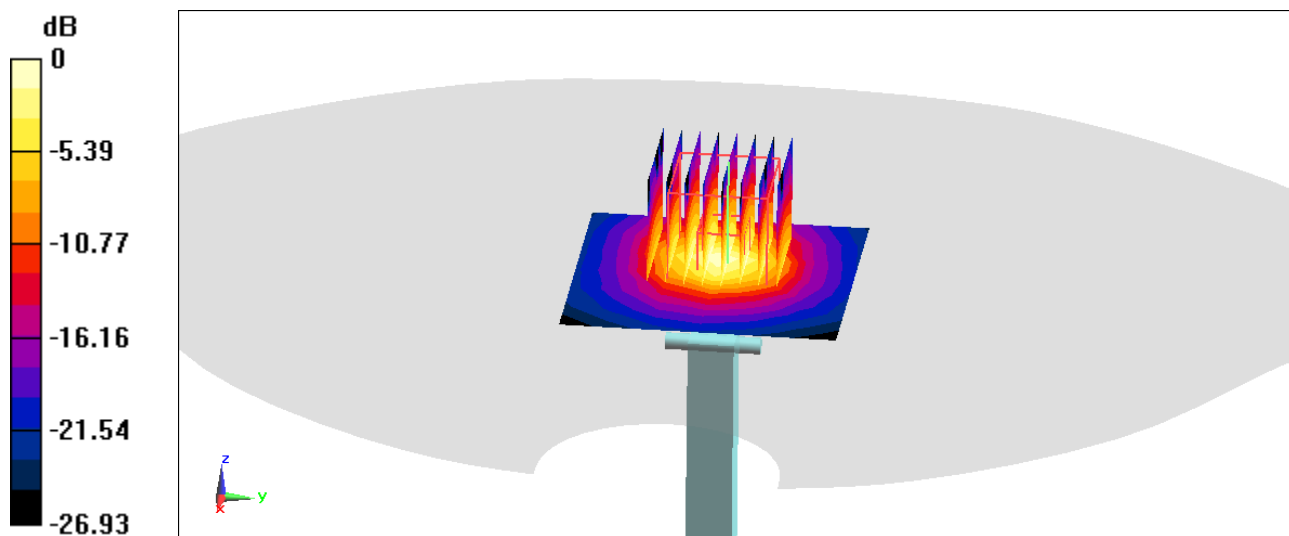
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 3.92 W/kg

Deviation(1 g) = -3.92%



0 dB = 9.35 W/kg = 9.71 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5 GHz Head Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 4.884 \text{ S/m}$; $\epsilon_r = 35.588$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-20-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.63, 4.63, 4.63) @ 5600 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

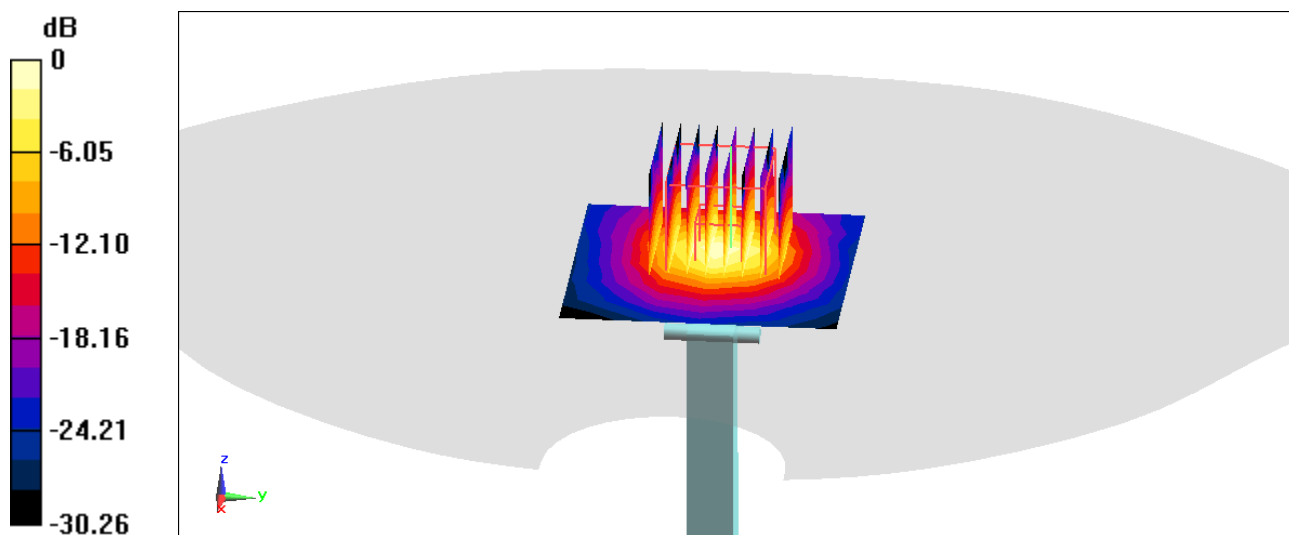
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 4.09 W/kg

Deviation(1 g) = -3.88%



0 dB = 10.1 W/kg = 10.04 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5 GHz Head Medium parameters used (interpolated):

$f = 5750 \text{ MHz}$; $\sigma = 5.043 \text{ S/m}$; $\epsilon_r = 35.416$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-20-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.84, 4.84, 4.84) @ 5750 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

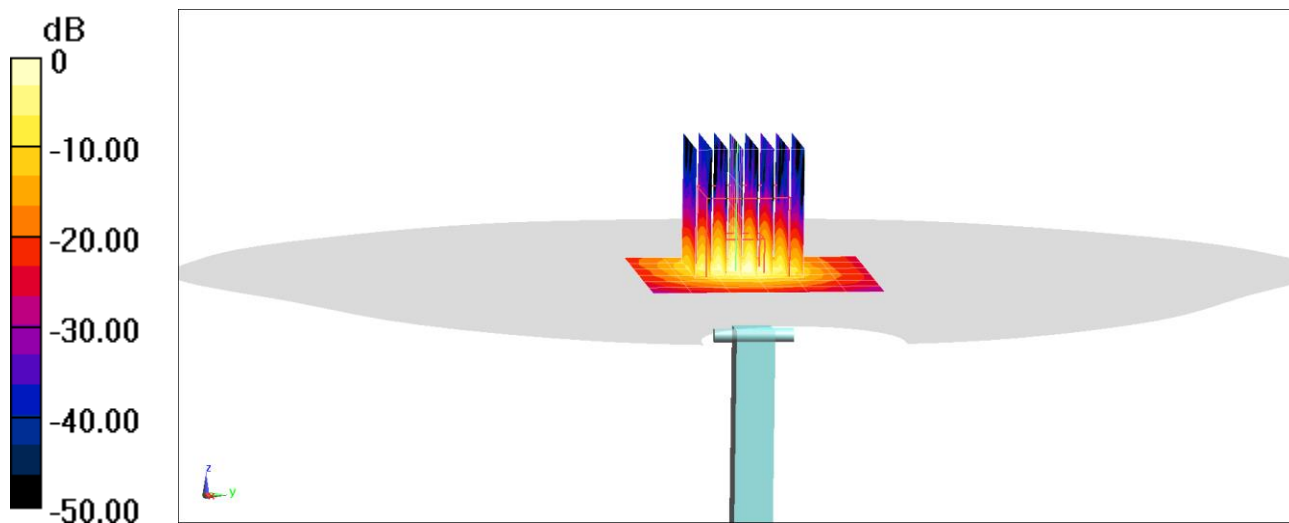
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 3.82 W/kg

Deviation(1 g) = -5.21%



0 dB = 9.40 W/kg = 9.73 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 MHz Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.945 \text{ S/m}$; $\epsilon_r = 52.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-06-2020; Ambient Temp: 21.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 750 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

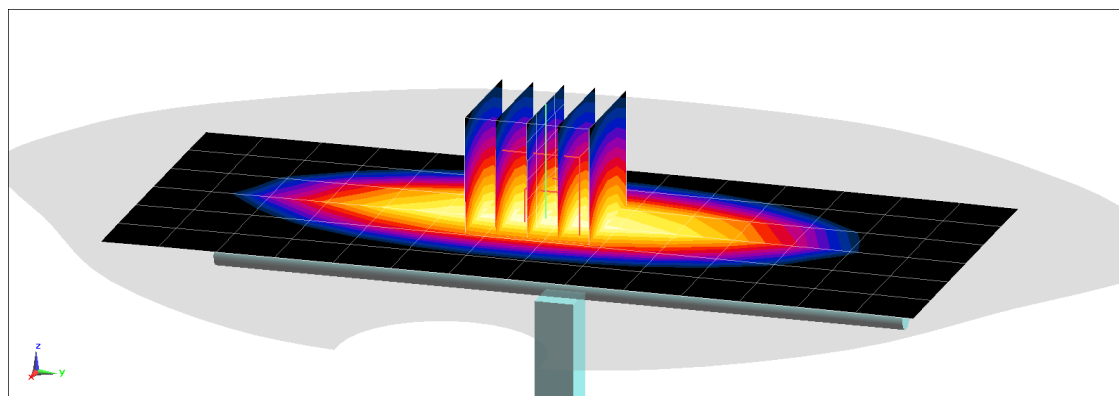
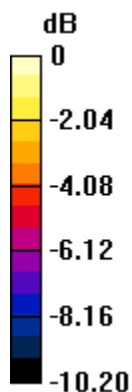
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.61 W/kg

SAR(10 g) = 1.15 W/kg

Deviation(10 g) = 1.23%



0 dB = 2.30 W/kg = 3.62 dBW/kg

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 850 MHz Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 53.131$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-06-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 835 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

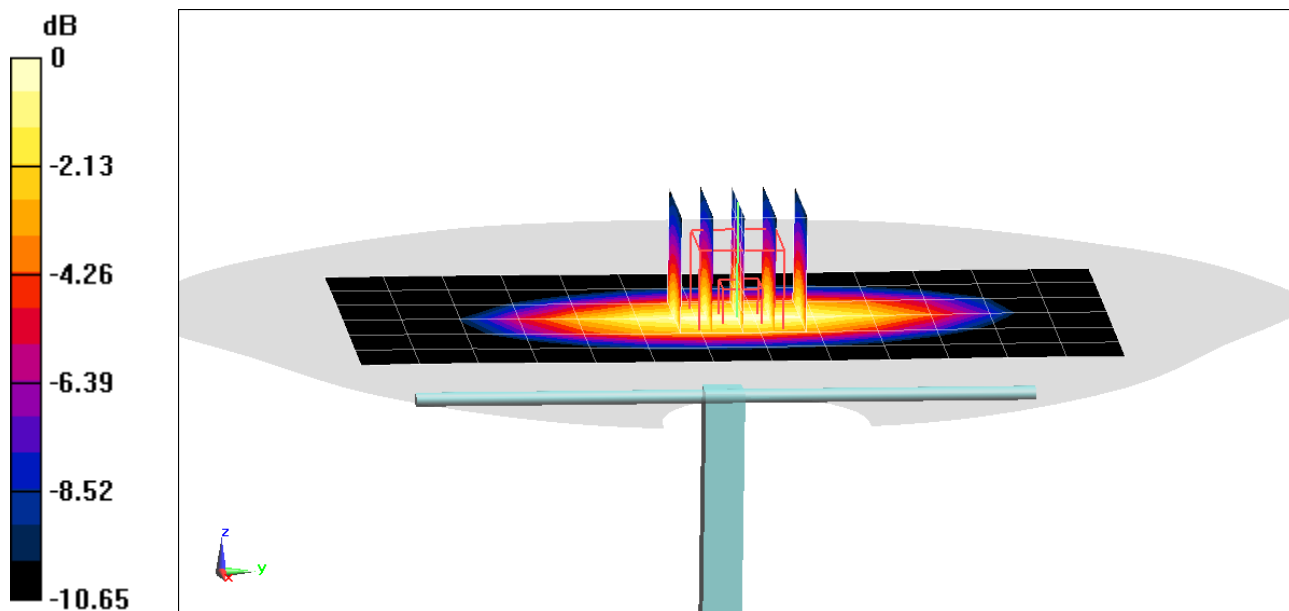
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.18 W/kg

SAR(10 g) = 1.41 W/kg

Deviation(10 g) = 5.54%



PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 850 MHz Body Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.995 \text{ S/m}$; $\epsilon_r = 53.497$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-08-2020; Ambient Temp: 20.5°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 850 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

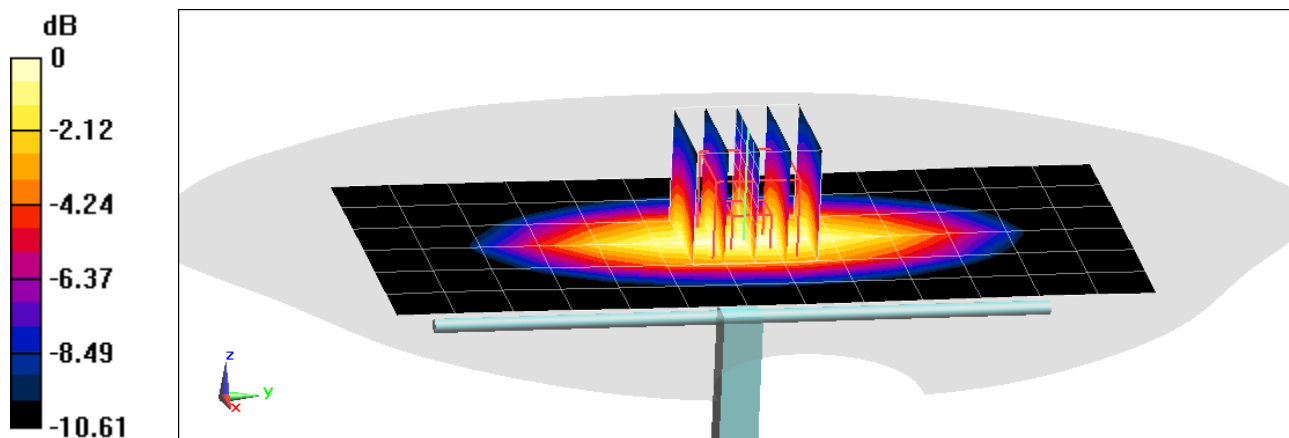
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.23 W/kg

SAR(10 g) = 1.43 W/kg

Deviation(10 g) = 7.04%



0 dB = 2.90 W/kg = 4.62 dBW/kg

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 850 MHz Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.983 \text{ S/m}$; $\epsilon_r = 53.847$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 08-19-2020; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 835 MHz; Calibrated: 3/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/19/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

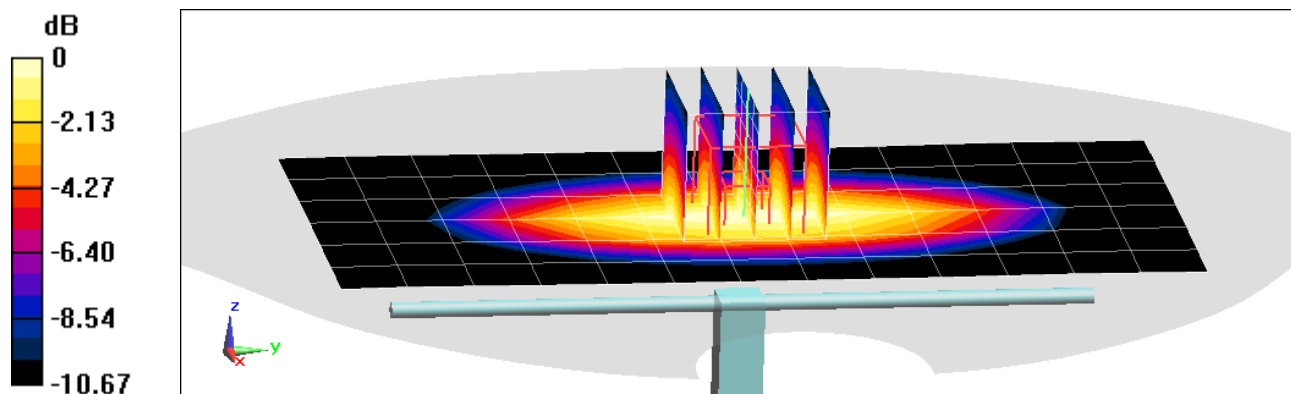
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.15 W/kg

SAR(10 g) = 1.37 W/kg

Deviation(10 g) = 2.54%



0 dB = 2.81 W/kg = 4.49 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.467 \text{ S/m}$; $\epsilon_r = 51.256$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-26-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3837; ConvF(7.88, 7.88, 7.88) @ 1750 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

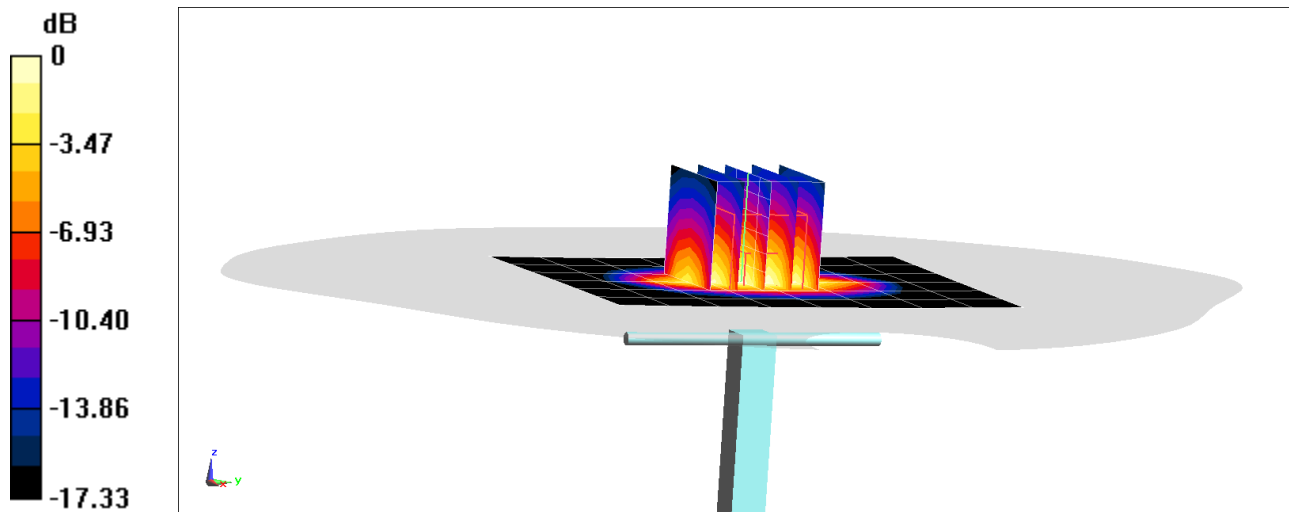
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.06 W/kg

SAR(10 g) = 2.08 W/kg

Deviation(10 g) = 5.58%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 MHz Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.475 \text{ S/m}$; $\epsilon_r = 51.528$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-30-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3837; ConvF(7.88, 7.88, 7.88) @ 1750 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

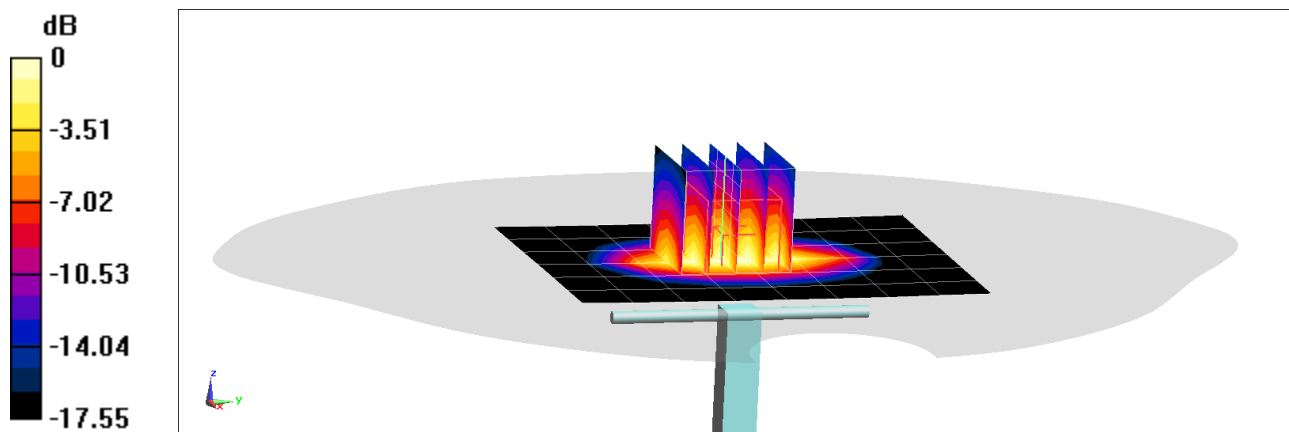
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.02 W/kg

SAR(10 g) = 2.07 W/kg

Deviation(10 g) = 5.61%



0 dB = 5.89 W/kg = 7.70 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d030

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.575 \text{ S/m}$; $\epsilon_r = 51.078$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-26-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1900 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

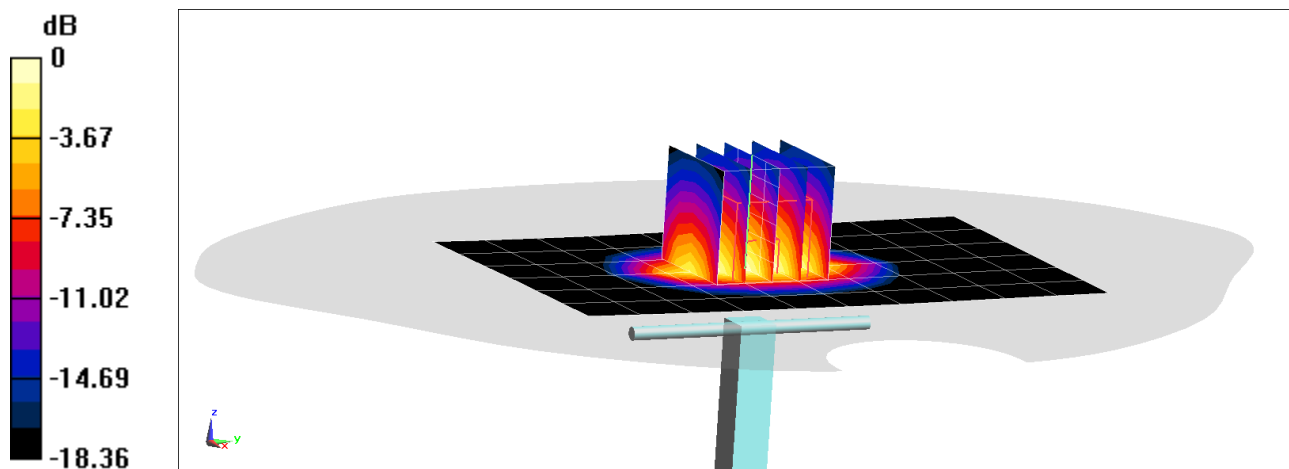
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.73 W/kg

SAR(10 g) = 2.17 W/kg

Deviation(10 g) = 2.84%



0 dB = 6.52 W/kg = 8.14 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.577 \text{ S/m}$; $\epsilon_r = 51.312$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-30-2020; Ambient Temp: 23.8°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1900 MHz; Calibrated: 1/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/14/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

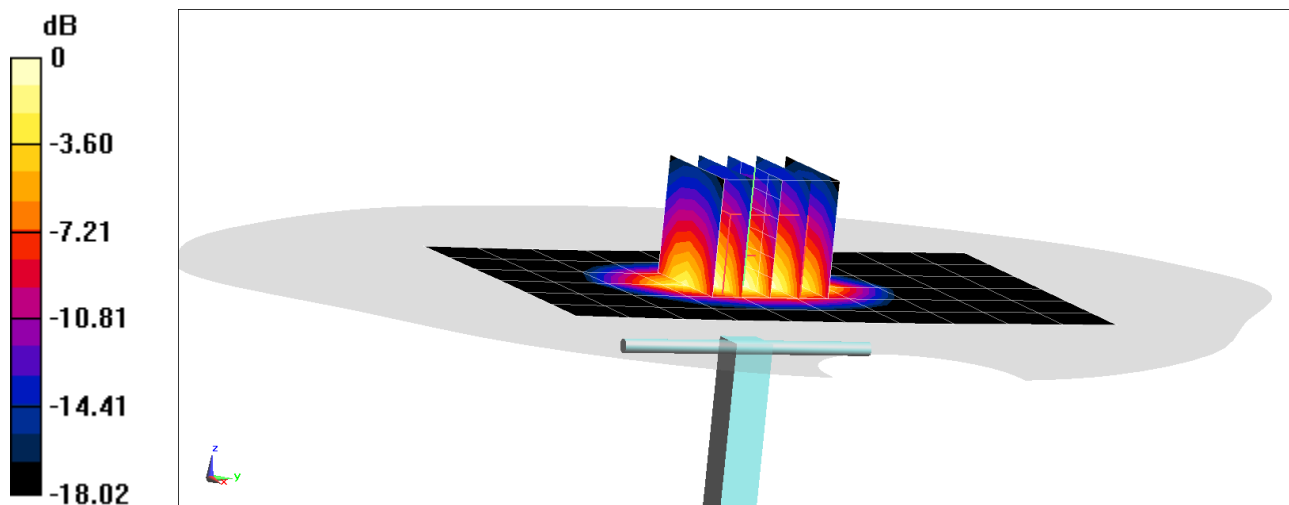
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.57 W/kg

SAR(10 g) = 2.13 W/kg

Deviation(10 g) = 0.47%



0 dB = 6.41 W/kg = 8.07 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.031 \text{ S/m}$; $\epsilon_r = 51.58$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-30-2020; Ambient Temp: 22.7°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7491; ConvF(7.57, 7.57, 7.57) @ 2450 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

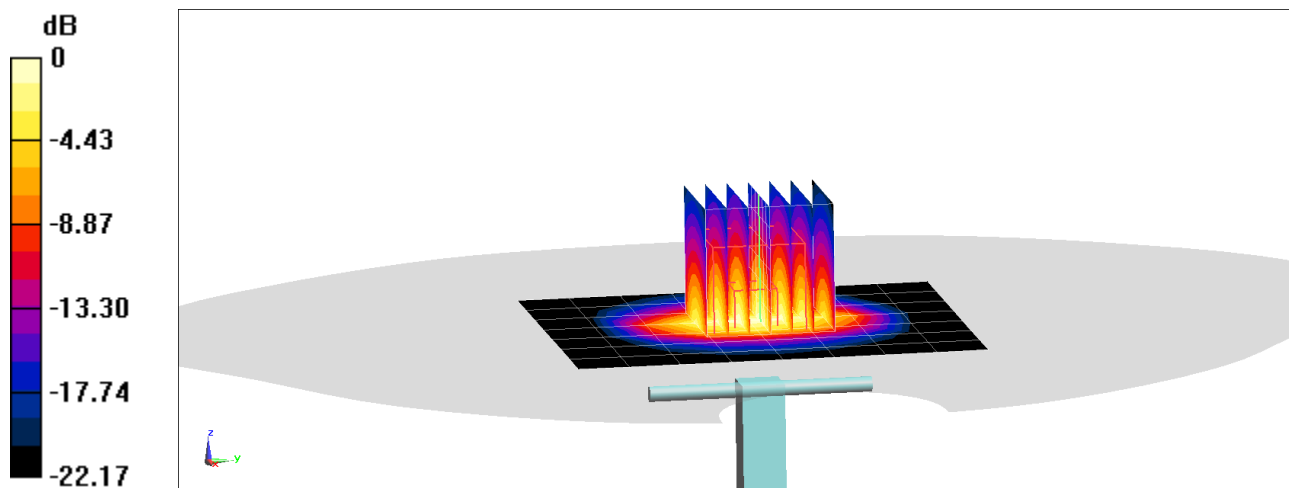
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.0 W/kg

SAR(10 g) = 2.45 W/kg

Deviation(10 g) = 2.94%



0 dB = 8.79 W/kg = 9.44 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.009 \text{ S/m}$; $\epsilon_r = 51.023$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-19-2020; Ambient Temp: 22.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

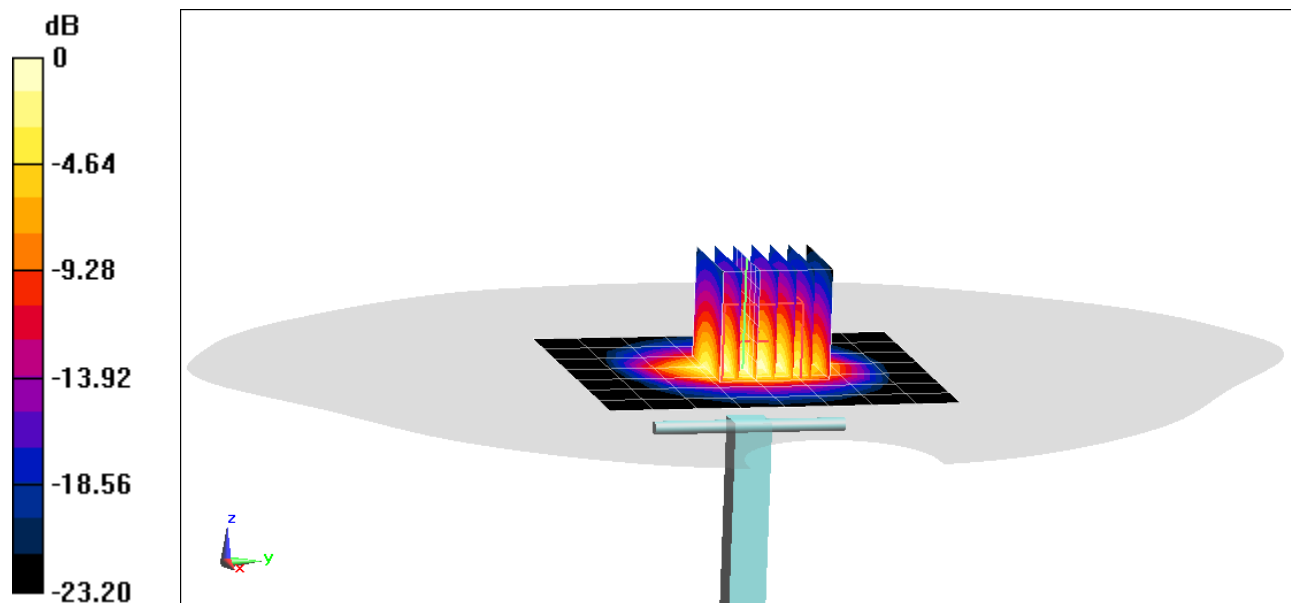
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.4 W/kg

SAR(10 g) = 2.28 W/kg

Deviation(10 g) = -4.20%



0 dB = 8.31 W/kg = 9.20 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.025 \text{ S/m}$; $\epsilon_r = 51.683$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-22-2020; Ambient Temp: 22.5°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

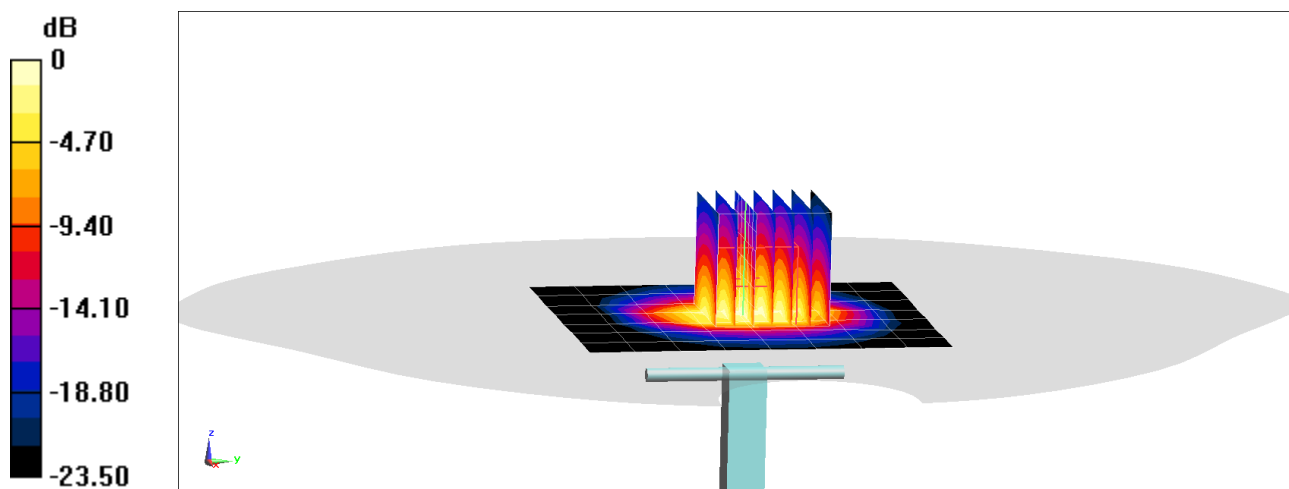
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 10.2 W/kg

SAR(10 g) = 2.22 W/kg

Deviation(10 g) = -4.31%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.045 \text{ S/m}$; $\epsilon_r = 51.806$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

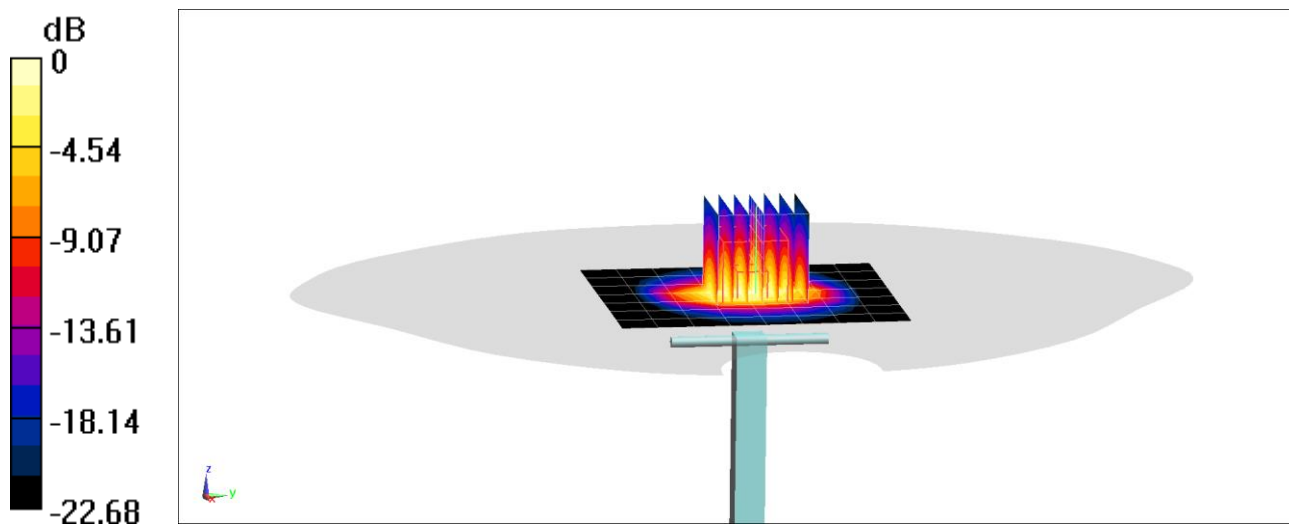
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.5 W/kg

SAR(10 g) = 2.31 W/kg

Deviation(10 g) = -2.94%



0 dB = 8.38 W/kg = 9.23 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.245$ S/m; $\epsilon_r = 51.012$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06-30-2020; Ambient Temp: 22.7°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7491; ConvF(7.45, 7.45, 7.45) @ 2600 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

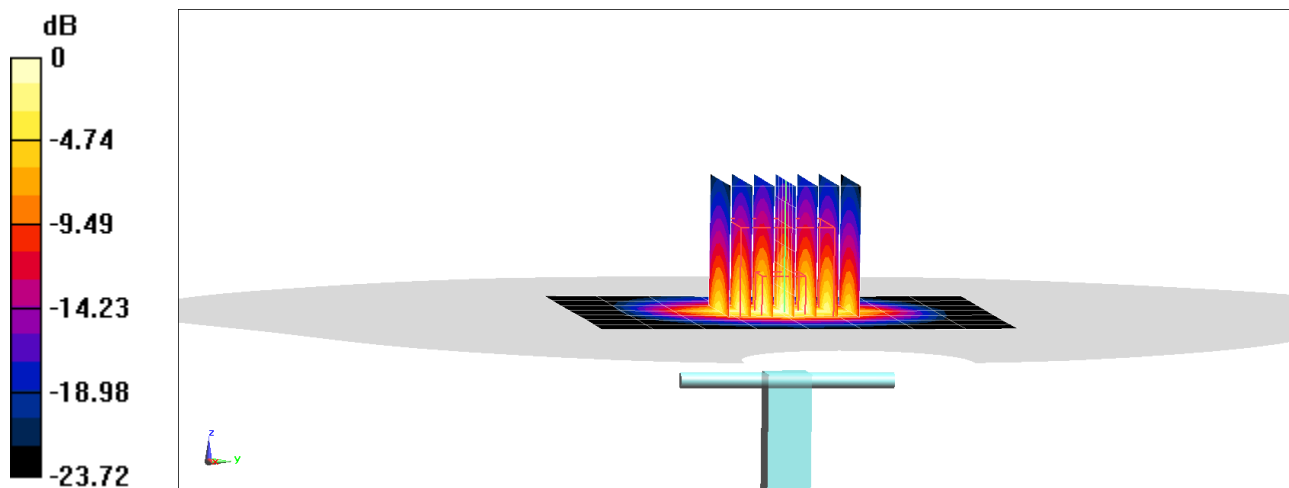
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 13.3 W/kg

SAR(10 g) = 2.56 W/kg

Deviation(10 g) = 3.23%



0 dB = 10.3 W/kg = 10.13 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.229$ S/m; $\epsilon_r = 50.412$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-19-2020; Ambient Temp: 22.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7416; ConvF(7.23, 7.23, 7.23) @ 2600 MHz; Calibrated: 6/22/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/11/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

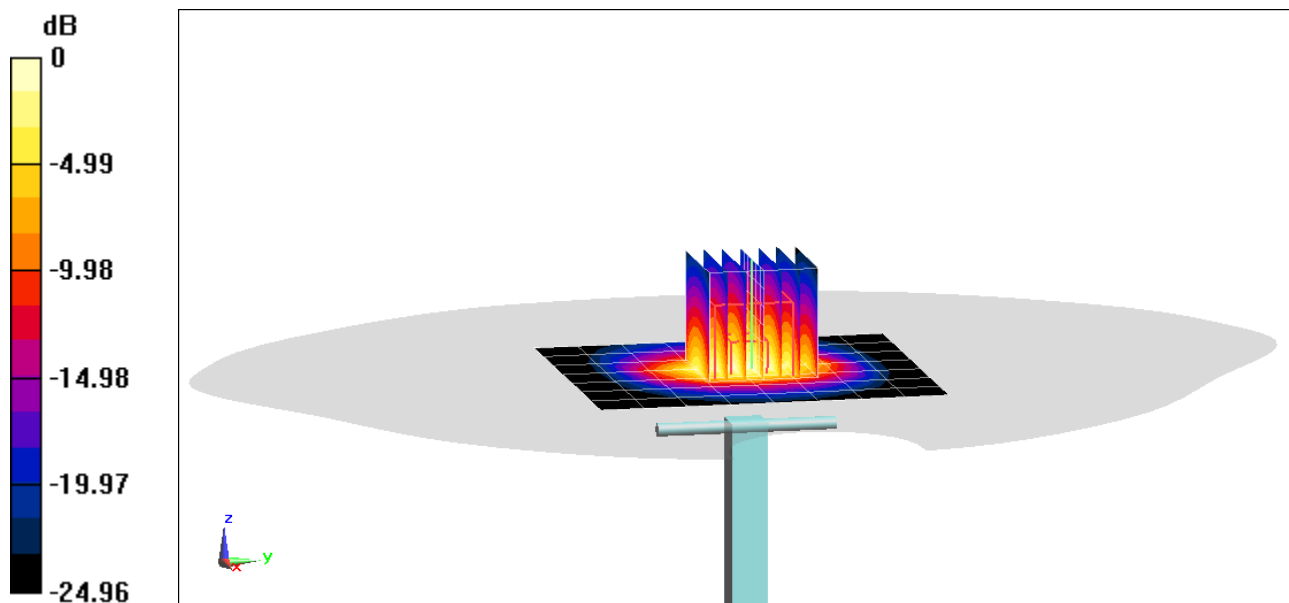
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.0 W/kg

SAR(10 g) = 2.33 W/kg

Deviation(10 g) = -6.05%



0 dB = 9.34 W/kg = 9.70 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5GHz Body Medium parameters used (interpolated):

$f = 5250 \text{ MHz}$; $\sigma = 5.377 \text{ S/m}$; $\epsilon_r = 47.167$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-24-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; ConvF(4.64, 4.64, 4.64) @ 5250 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

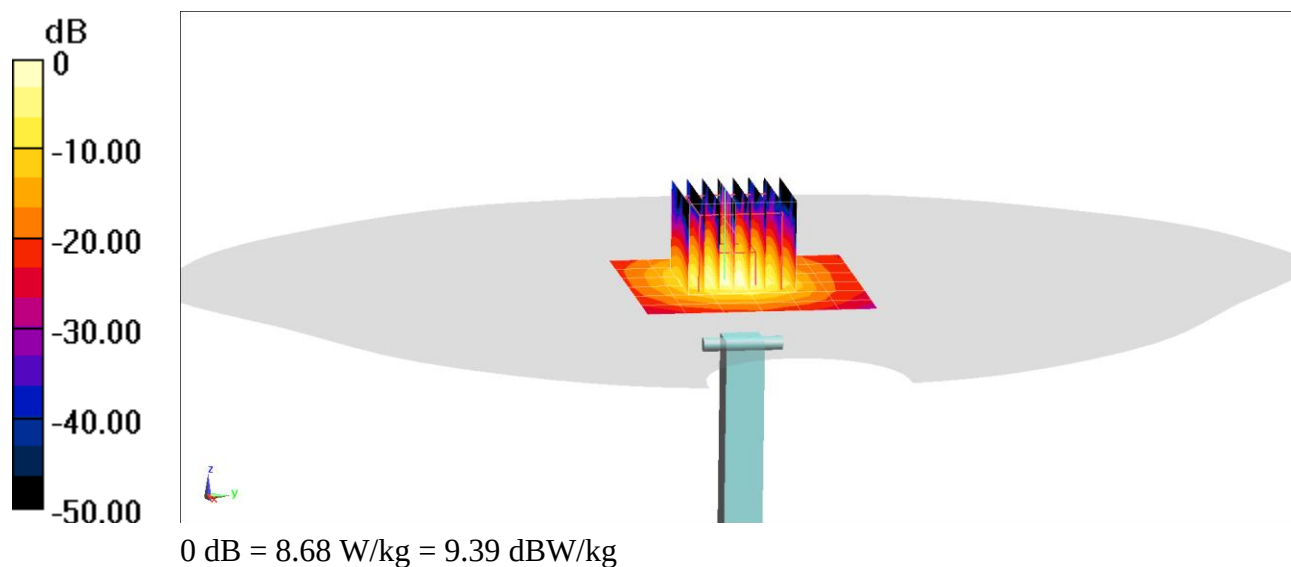
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.9 W/kg

SAR(10 g) = 1.01 W/kg

Deviation(10 g) = -1.94%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

5 GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.862 \text{ S/m}$; $\epsilon_r = 46.473$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-24-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; ConvF(4.21, 4.21, 4.21) @ 5600 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

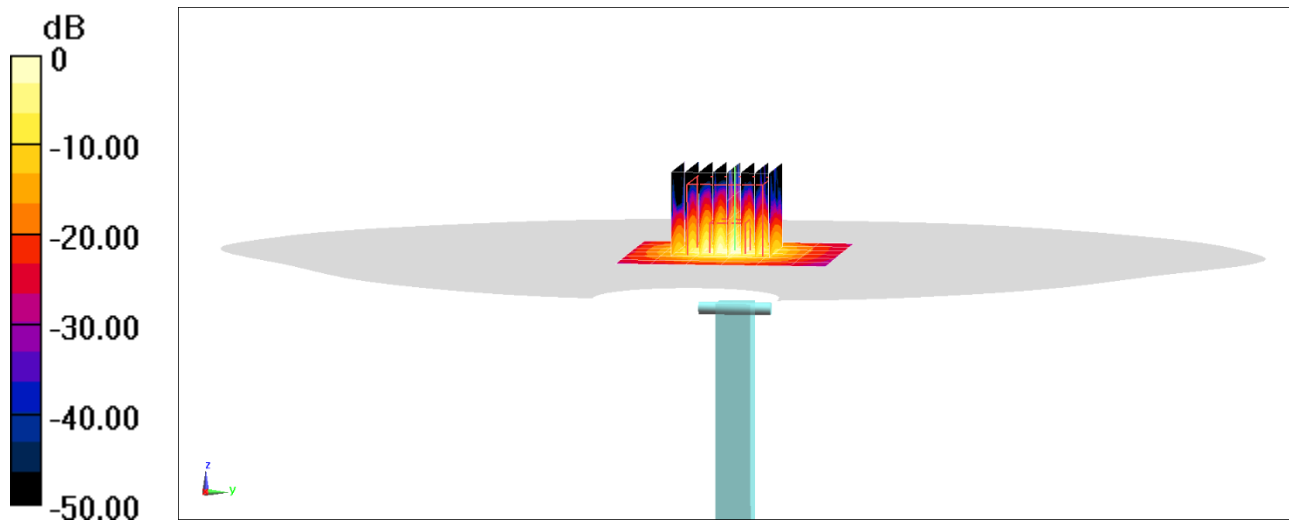
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.1 W/kg

SAR(10 g) = 1.05 W/kg

Deviation(10 g) = -3.23%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5750 \text{ MHz}$; $\sigma = 6.088 \text{ S/m}$; $\epsilon_r = 46.233$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-24-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; ConvF(4.18, 4.18, 4.18) @ 5750 MHz; Calibrated: 4/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/15/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

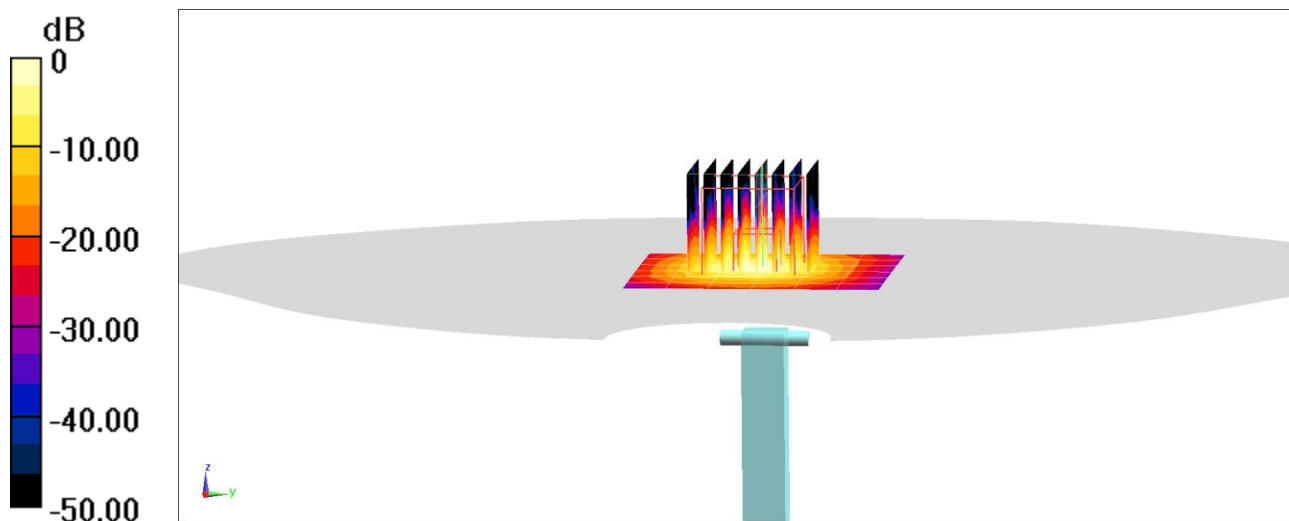
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.4 W/kg

SAR(10 g) = 1.03 W/kg

Deviation(10 g) = -0.96%



0 dB = 9.33 W/kg = 9.70 dBW/kg

APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID: BCG-A2294	 Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/24/2020 – 08/19/2020	DUT Type: Watch		APPENDIX C: Page 1 of 4

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	Ethanedial STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	Sodium petroleum sulfonate Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	Alkoxyated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCC ID: BCG-A2294	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/24/2020 – 08/19/2020	DUT Type: Watch		APPENDIX C: Page 2 of 4

Measurement Certificate / Material Test

Item Name **Body Tissue Simulating Liquid (MBBL600-6000V6)**
 Product No. SL AAM U16 BC (Batch: 181029-1)
 Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865864 compliance standard.

Test Condition

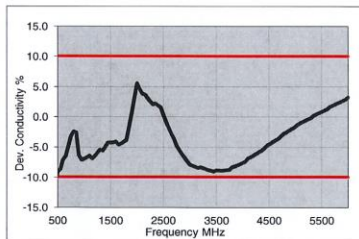
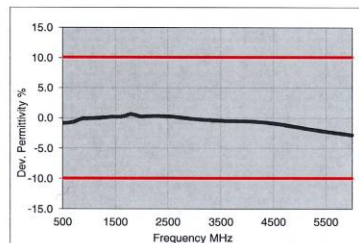
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 30-Oct-18
 Operator CL

Additional Information

TSL Density
 TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1
825	55.1	20.8	0.96	55.2	0.98	-0.3	-2.0
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6
1500	54.1	15.3	1.27	53.9	1.33	0.3	-4.5
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2
1650	53.8	14.9	1.36	53.7	1.43	0.2	-4.9
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0
1800	53.7	14.6	1.46	53.3	1.52	0.8	-3.9
1810	53.7	14.6	1.47	53.3	1.52	0.8	-3.3
1825	53.7	14.6	1.48	53.3	1.52	0.8	-2.6
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3
2050	53.4	14.4	1.64	53.2	1.57	0.3	4.5
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2
2400	52.9	14.5	1.94	52.8	1.90	0.2	2.1
2450	52.9	14.5	1.98	52.7	1.95	0.4	1.5
2500	52.8	14.6	2.03	52.6	2.02	0.3	0.5
2550	52.7	14.6	2.07	52.6	2.09	0.2	-1.0
2600	52.6	14.7	2.12	52.5	2.16	0.2	-1.9



3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
5600	47.3	18.8	5.84	48.5	5.77	-2.3	1.3
5700	47.1	18.9	5.99	48.3	5.88	-2.5	1.8
5800	47.0	19.0	6.14	48.2	6.00	-2.6	2.3

TSL Dielectric Parameters

1

Figure C-2
 600 – 5800 MHz Body Tissue Equivalent Matter

FCC ID: BCG-A2294	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/24/2020 – 08/19/2020	DUT Type: Watch		APPENDIX C: Page 3 of 4

Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL600-10000V6)
Product No.	SL AAH U16 BC (Batch: 181031-2)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

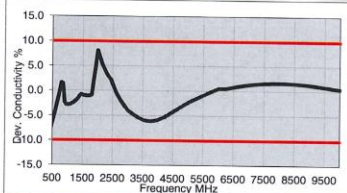
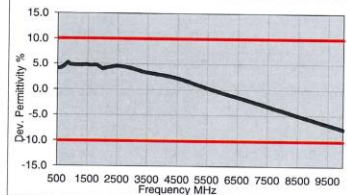
Ambient Condition 22°C ; 30% humidity
TSL Temperature 22°C
Test Date 31-Oct-18
Operator CL

Additional Information

TSL Density
TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	43.8	20.5	0.91	41.7	0.90	5.1	1.4
825	43.8	20.1	0.92	41.6	0.91	5.3	1.5
835	43.8	19.9	0.93	41.5	0.91	5.4	2.0
850	43.7	19.7	0.93	41.5	0.92	5.3	1.5
900	43.5	18.9	0.95	41.5	0.97	4.8	-2.1
1400	42.5	15.0	1.17	40.6	1.18	4.7	-0.8
1450	42.5	14.8	1.19	40.5	1.20	4.9	-0.8
1600	42.2	14.3	1.27	40.3	1.28	4.7	-1.1
1625	42.2	14.2	1.29	40.3	1.30	4.8	-0.7
1640	42.2	14.2	1.30	40.3	1.31	4.8	-0.5
1650	42.1	14.2	1.30	40.2	1.31	4.6	-1.0
1700	42.1	14.0	1.33	40.2	1.34	4.8	-0.9
1750	42.0	13.9	1.36	40.1	1.37	4.8	-0.8
1800	41.9	13.9	1.39	40.0	1.40	4.7	-0.7
1810	41.9	13.8	1.40	40.0	1.40	4.7	0.0
1825	41.9	13.8	1.41	40.0	1.40	4.7	0.7
1850	41.8	13.8	1.42	40.0	1.40	4.5	1.4
1900	41.8	13.7	1.45	40.0	1.40	4.5	3.6
1950	41.7	13.7	1.48	40.0	1.40	4.3	5.7
2000	41.6	13.6	1.51	40.0	1.40	4.0	7.9
2050	41.6	13.6	1.55	39.9	1.44	4.2	7.3
2100	41.5	13.5	1.58	39.8	1.49	4.2	6.1
2150	41.4	13.5	1.62	39.7	1.53	4.2	5.7
2200	41.4	13.5	1.65	39.6	1.58	4.4	4.6
2250	41.3	13.5	1.69	39.6	1.62	4.4	4.2
2300	41.2	13.5	1.72	39.5	1.67	4.4	3.2
2350	41.1	13.5	1.76	39.4	1.71	4.4	2.9
2400	41.1	13.5	1.80	39.3	1.76	4.6	2.5
2450	41.0	13.5	1.84	39.2	1.80	4.6	2.2
2500	40.9	13.5	1.88	39.1	1.85	4.5	1.4
2550	40.8	13.5	1.92	39.1	1.91	4.4	0.6
2600	40.8	13.6	1.96	39.0	1.96	4.6	-0.2
3500	39.2	14.1	2.74	37.9	2.91	3.3	-5.8
3700	38.9	14.2	2.93	37.7	3.12	3.1	-6.1



5200	36.3	15.8	4.57	36.0	4.66	0.9	-1.7
5250	36.2	15.9	4.63	35.9	4.71	0.8	-1.6
5300	36.1	15.9	4.69	35.9	4.76	0.7	-1.4
5500	35.8	16.1	4.92	35.6	4.96	0.3	-0.9
5600	35.6	16.2	5.04	35.5	5.07	0.1	-0.6
5700	35.4	16.2	5.15	35.4	5.17	0.0	-0.3
5800	35.2	16.3	5.27	35.3	5.27	-0.2	0.0
6000	34.9	16.5	5.50	35.1	5.48	-0.6	0.5
6500	34.0	16.9	6.12	34.5	6.07	-1.4	0.9
7000	33.1	17.3	6.74	33.9	6.65	-2.3	1.3
7500	32.2	17.6	7.36	33.3	7.24	-3.2	1.6
8000	31.4	17.9	7.97	32.7	7.84	-4.1	1.7
8500	30.5	18.2	8.59	32.1	8.45	-5.0	1.6
9000	29.7	18.4	9.20	31.5	9.08	-5.9	1.3
9500	28.9	18.5	9.80	31.0	9.71	-6.8	0.9
10000	28.1	18.7	10.40	30.4	10.36	-7.6	0.4

Figure C-3
600 – 5800 MHz Head Tissue Equivalent Matter

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APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCG-A2294	 Proud to be part of  element	SAR EVALUATION REPORT	Approved by: Quality Manager
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Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
					(σ)	(ε _r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM8	750	6/25/2020	7532	750	Head	0.901	42.435	PASS	PASS	PASS	N/A	N/A
AM1	835	3/12/2020	7427	835	Head	0.887	41.65	PASS	PASS	PASS	GMSK	PASS
AM8	1750	6/25/2020	7532	1750	Head	1.324	40.239	PASS	PASS	PASS	N/A	N/A
AM2	1750	12/6/2019	7420	1750	Head	1.345	41.1	PASS	PASS	PASS	N/A	N/A
AM7	1900	5/20/2020	7490	1900	Head	1.417	39.614	PASS	PASS	PASS	GMSK	PASS
AM7	2450	5/22/2020	7490	2450	Head	1.788	38.887	PASS	PASS	PASS	OFDM/TDD	PASS
AM7	2600	5/22/2020	7490	2600	Head	1.903	36.634	PASS	PASS	PASS	TDD	PASS
AM2	5250	12/9/2019	7420	5250	Head	4.563	35.076	PASS	PASS	PASS	OFDM	N/A
AM2	5600	12/10/2019	7420	5600	Head	4.957	34.45	PASS	PASS	PASS	OFDM	N/A
AM2	5750	12/10/2019	7420	5750	Head	5.12	34.19	PASS	PASS	PASS	OFDM	N/A

Table D-2
SAR System Validation Summary – 10g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
					(σ)	(ε _r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM8	750	5/27/2020	7532	750	Body	0.942	52.946	PASS	PASS	PASS	N/A	N/A
AM4	835	4/22/2020	7421	835	Body	0.992	54.556	PASS	PASS	PASS	GMSK	PASS
AM6	1750	3/4/2020	3837	1750	Body	1.452	52.122	PASS	PASS	PASS	N/A	N/A
AM6	1900	3/4/2020	3837	1900	Body	1.583	51.67	PASS	PASS	PASS	GMSK	PASS
AM5	2450	8/13/2019	7491	2450	Body	1.972	51.904	PASS	PASS	PASS	OFDM/TDD	PASS
AM5	2450	7/6/2020	7416	2450	Body	1.996	51.99	PASS	PASS	PASS	OFDM/TDD	PASS
AM5	2600	8/13/2019	7491	2600	Body	2.11	51.64	PASS	PASS	PASS	TDD	PASS
AM5	2600	7/6/2020	7416	2600	Body	2.226	51.419	PASS	PASS	PASS	TDD	PASS
AM8	5250	5/28/2020	7532	5250	Body	5.349	47.511	PASS	PASS	PASS	OFDM	N/A
AM8	5600	5/29/2020	7532	5600	Body	5.859	46.85	PASS	PASS	PASS	OFDM	N/A
AM8	5750	5/29/2020	7532	5750	Body	6.072	46.6	PASS	PASS	PASS	OFDM	N/A

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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