SAR TEST REPORT

Applicant	Honor Device Co., Ltd.
FCC ID	2AYGCTFY-LX3
Product	Smart Phone
Model	TFY-LX3
Report No.	R2206A0587-S1
Issue Date	July 26, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991.** The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Table of Contents

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Table 1: Highest Reported SAR

Mode	Highest Reported SAR (W/kg)			
	1g SAR Head	1g SAR Body-worn (Separation 15mm)	1g SAR Hotspot (Separation 10mm)	Product Specific 10-g SAR (Separation 0mm)
GSM 850	0.24	0.38	0.31	N/A
GSM 1900	0.19	0.28	0.78	N/A
WCDMA Band II	0.94	0.57	0.89	**2.71**
WCDMA Band IV	0.67	0.33	0.99	N/A
WCDMA Band V	0.26	0.70	0.70	N/A
LTE FDD 2	**0.94**	0.56	0.94	2.65
LTE FDD 4	0.75	0.45	**0.99**	N/A
LTE FDD 5	0.28	0.65	0.65	N/A
LTE FDD 7	0.70	0.52	0.79	N/A
LTE FDD 13	0.12	0.51	0.51	N/A
LTE FDD 26	0.28	**0.79**	0.79	N/A
LTE TDD 38	0.75	0.50	0.81	N/A
LTE FDD 66	0.79	0.30	0.80	N/A
Wi-Fi 2.4G	0.61	0.49	0.89	N/A
Wi-Fi 5G	0.71	0.66	0.88	2.46
BT	0.40	0.17	0.17	N/A
Date of Testing:(Original)January 14, 2022 ~ January 28, 2022 and February 14, 2022 (Variant)July 4, 2022~ July 6, 2022 Date of Sample Received: (Original)January 10, 2022 (Variant) June 28, 2022				
Note: 1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg and 4.0 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013. 2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.				

Note: 1) The highest Reported SAR for head, body-worn, hotspot, Product Specific 10-g SAR and simultaneous transmission exposure conditions are 0.94 W/kg, 0.79 W/kg, 0.99/kg, 2.71 W/kg and 1.59W/kg.

2) Stand-alone SAR evaluation is not required for BT, more details information see section 10.2.

3) For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontraolled exposure limits according to the FCC rule §2.1093, the ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

TFY-LX3 (Report No.: R2206A0587-S1) is a variant model of TFY-LX3 (Report No.: R2201A0036-S1V2).

The differences between model TFY-LX3 and model TFY-LX3 are shown in the below table:

Item	Model	Original report TFY-LX3	Variant report TFY-LX3
Licensed Frequency	GSM	GSM 1900/ GSM 850The primary and secondary antenna of GSM 1900 supports transmit and receive.	GSM 1900/ GSM 850 The difference changed by software: The primary antenna of GSM 1900 supports transmit and receive The secondary antenna of GSM 1900 only supports receive.
Software	Version	4.2.0.35(C900E14R1P1)	4.2.0.149(C605E1R2P1)
RF	Tune-up	The primary antenna of GSMB2/B5/WCDMAB4/B5/ LTEB4/B5/B13/B26/B66 are unchanged.	The primary antenna of WCDMAB2/LTEB2/B7/B38 and the secondary antenna of WCDMA B2/B4/LTE B2/B4/B7/B38/B66 are changed smaller.
Accessory	Battery	Manufacture: Sunwoda/NVT	Manufacture: Sunwoda /NVT/SCUD
Others	The same		

The detailed product change description please refers to the *Difference Declaration Letter.*

Tested band refer to the following table.

Head				
Band	Original		Variant	
	Main Antenna	Second Antenna	Main Antenna	Second Antenna
GSM 850	Pass	/	Only tested with worst case of Original	/
GSM 1900	Pass	Pass	Only tested with worst case of Original	/
WCDMA Band II	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
WCDMA Band IV	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
WCDMA Band V	Pass	/	Only tested with worst case of Original	/
LTE FDD 2	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 4	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 5	Pass	/	Only tested with worst case of Original	/
LTE FDD 7	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 13	Pass	/	Only tested with worst case of Original	/
LTE FDD 26	Pass	/	Only tested with worst case of Original	/
LTE TDD 38	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 66	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original

Body-worn				
Band	Original		Variant	
	Main Antenna	Second Antenna	Main Antenna	Second Antenna
GSM 850	Pass	/	Only tested with worst case of Original	/
GSM 1900	Pass	Pass	Only tested with worst case of Original	/
WCDMA Band II	Pass	Pass	Only tested with worst case of Original	Retest
WCDMA Band IV	Pass	Pass	Only tested with worst case of Original	Retest
WCDMA Band V	Pass	/	Only tested with worst case of Original	/
LTE FDD 2	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 4	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 5	Pass	/	Only tested with worst case of Original	/
LTE FDD 7	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 13	Pass	/	Only tested with worst case of Original	/
LTE FDD 26	Pass	/	Only tested with worst case of Original	/
LTE TDD 38	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 66	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original

Hotspot				
Band	Original		Variant	
	Main Antenna	Second Antenna	Main Antenna	Second Antenna
GSM 850	Pass	/	Only tested with worst case of Original	/
GSM 1900	Pass	Pass	Only tested with worst case of Original	/
WCDMA Band II	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original

WCDMA Band IV	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
WCDMA Band V	Pass	/	Only tested with worst case of Original	/
LTE FDD 2	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 4	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 5	Pass	/	Only tested with worst case of Original	/
LTE FDD 7	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 13	Pass	/	Only tested with worst case of Original	/
LTE FDD 26	Pass	/	Only tested with worst case of Original	/
LTE TDD 38	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original
LTE FDD 66	Pass	Pass	Only tested with worst case of Original	Only tested with worst case of Original

Product Specific 10-g SAR				
Band	Original		Variant	
	Main Antenna	Second Antenna	Main Antenna	Second Antenna
GSM 850	NA	NA	NA	NA
GSM 1900	NA	NA	NA	NA
WCDMA Band II	Pass	NA	NA	Only tested with worst case of Original
WCDMA Band IV	NA	NA	NA	NA
WCDMA Band V	NA	NA	NA	NA
LTE FDD 2	Pass	NA	NA	Only tested with worst case of Original
LTE FDD 4	NA	NA	NA	NA
LTE FDD 5	NA	NA	NA	NA
LTE FDD 7	NA	NA	NA	NA
LTE FDD 13	NA	NA	NA	NA
LTE FDD 26	NA	NA	NA	NA
LTE TDD 38	NA	NA	NA	NA
LTE FDD 66	NA	NA	NA	NA

Head& Body-worn& Hotspot		
Band	Original	Variant
Wi-Fi 2.4G	Pass	Only tested with worst case of Original
Wi-Fi 5G	Pass	Only tested with worst case of Original
BT	Pass	Only tested with worst case of Original

Product Specific 10-g SAR		
Band	Original	Variant
Wi-Fi 2.4G	NA	NA
Wi-Fi 5G	Pass	Only tested with worst case of Original
BT	NA	NA

3 Description of Equipment under Test

Client Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

General Technologies

Application Purpose	Class II Permissive Change	
EUT Stage	Identical Prototype	
Model	TFY-LX3	
SN	Original:	1#: A7NX011C22000162 2#: A7NX011C22000131 3#: A7NX011C22000130 4#: A7NX011C22000154
	Variant:	1#: AGNN6R2615000007
Hardware Version	HL6TFYM	
Software Version	4.2.0.149(C605E1R2P1)	
Antenna Type	Internal Antenna	
Device Class	B	
Support VOIP	VoLTE or pre-installed VOIP applications are considered.	
Wi-Fi Hotspot	Wi-Fi 2.4G Wi-Fi 5G U-NII-1&U-NII-3	
Power Class	GSM 850: 4 GSM 1900: 1 UMTS Band II/IV/V: 3 LTE FDD 2/4/5/7/13/26/38/66: 3	
Power Level	GSM 850: level 5 GSM 1900: level 0 UMTS Band II/IV/V: all up bits LTE FDD 2/4/5/7/13/26/38/66: max power	

EUT Accessory

Accessory	Model	Manufacture	No.
Battery	HB416492EFW	Honor Device Co., Ltd. (Manufacturer: Sunwoda Electronic Co.,LTD)	1
	HB416492EFW	Honor Device Co., Ltd. (Manufacturer: Dongguan NVT Technology Co., Ltd)	2
	HB416492EFW	Honor Device Co., Ltd. (Manufacturer: SCUD (Fujian) Electronics Co., LTD.)	3

Earphone	MEND1532B528A11	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.	1
	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.	2
	EPAB542-2WH05-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	3
Note: The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)
GSM	850	Voice(GMSK) GPRS(GMSK) EGPRS(GMSK,8PSK)	☐Multi-slot Class:8-1UP ☐Multi-slot Class:10-2UP ☒Multi-slot Class:12-4UP ☐Multi-slot Class:33-4UP	824 ~ 849
	1900			1850 ~ 1910
	Does this device support DTM (Dual Transfer Mode)? ☐Yes ☒No			
UMTS	Band II	QPSK	HSDPA UE Category:14 HSUPA UE Category:6 DC-HSDPA UE Category:24	1850 ~ 1910
	Band IV			1710 ~ 1755
	Band V			824 ~ 849
LTE	FDD 2	QPSK, 16QAM,	Rel.10	1850 ~ 1910
	FDD 4			1710 ~ 1755
	FDD 5			824 ~ 849
	FDD 7			2500 ~ 2570
	FDD 13			777 ~ 787
	FDD 26			814 ~ 849
	TDD 38			2570 ~ 2620
	FDD 66			1710 ~ 1780
	Does this device support Carrier Aggregation (CA) ☐Yes ☒No			
	Does this device support SV-LTE (1xRTT-LTE)? ☐Yes ☒No			
BT	2.4G	Version 5.0 BR/EDR + LE		2402 ~2480
Wi-Fi	2.4G	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462
		OFDM	802.11n HT40	2422 ~ 2452
	5G	OFDM	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5350 5470 ~ 5850

4 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

Reference Standards

KDB 248227 D01 802.11Wi-Fi SAR v02r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 648474 D04 Handset SAR v01r03
KDB 690783 D01 SAR Listings on Grants v01r03
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06 Hotspot Mode v02r01

5 Operational Conditions during Test

5.1 Test Positions

5.1.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2013 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

5.1.2 Body Worn Configuration

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person’s face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

5.1.3 Phablet SAR test considerations

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

a) The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.

b) The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. The 1-g SAR at 5 mm for UMPC mini-tablets is not required. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Product specific 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode product specific 10-g SAR.

c) The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions.

5.2 Measurement Variability

Per FCC KDB Publication 865664 D01, 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 preformed 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 1-g 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

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

5.3 Test Configuration

5.3.1 GSM Test Configuration

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Table 2: The allowed power reduction in the multi-slot configuration

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power (dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

5.3.2 UMTS Test Configuration

5.3.2.1 3G SAR Test Reduction Procedure

The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations modes according to output power, exposure conditions and device operating capabilities. Maximum output power is verified by applying the applicable versions of 3GPP TS 34.121.

5.3.2.2 Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest SAR configuration in 12.2 kbps RMC for head exposure.

5.3.2.3 Body-worn accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the EUT with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the EUT, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC

5.3.2.4 Release 5 HSDPA Test Configuration

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices” section of this document, for the highest SAR body-worn accessory exposure configuration in 12.2 kbps RMC. EUT with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 3: Subtests for UMTS Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI}= 8$\Leftrightarrow$$A_{hs}$ = β_{hs}/β_c=30/15$\Leftrightarrow$$\beta_{hs}$=30/15*$\beta_c$

Note 2: CM=1 for β_c/β_d =12/15, β_{hs}/β_c=24/15.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to β_c=11/15 and β_d=15/15.

5.3.2.5 Release 6 HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the “Release 6 HSPA Data Devices” section of this document, for the highest body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the ‘WCDMA EUT’ and ‘Release 5 HSDPA Data Devices’ sections of this document

Table 4: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (2) (dB)	MPR (dB)	AG (4) Index	E-TFCI
1	11/15 (3)	15/15 (3)	64	11/15 (3)	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (4)	15/15 (4)	64	15/15 (4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK}, ΔNACK and Δ_{CQI} = 8 $\Leftrightarrow$ A_{hs} = β_{hs}/β_c = 30/15 $\Leftrightarrow\beta_{hs}$= 30/15 *$\beta_c$.
Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.
Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

Table 5: HSUPA UE category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCHTTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592

4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	11484	5.76
	4	4	10		20000	2.00
7 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	22996	?
	4	4	10		20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)						

5.3.2.6 HSPA, and DC-HSDPA Test Configuration

SAR test exclusion may apply to 3GPP Rel. 6 HSPA and Rel. 8 DC-HSDPA. When SAR measurement is required for HSPA or DC-HSDPA, a KDB inquiry is required to confirm that the wireless mode configurations in the test setup have remained stable throughout the SAR measurements. Without prior KDB confirmation to determine the SAR results are acceptable, a PAG is required for equipment approval.

SAR test exclusion for HSPA and DC-HSDPA is determined according to the following:

1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to determine SAR test exclusion.

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

3) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA or DC-HSDPA:

a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121. Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.

b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.

c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCI and AG index values.

4) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCI and AG index stability and output power conditions.

Table 6: HS-DSCH UE category

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)
Category 2	5	3	7298	28800			
Category 3	5	2	7298	28800			
Category 4	5	2	7298	38400			
Category 5	5	1	7298	57600			
Category 6	5	1	7298	67200			
Category 7	10	1	14411	115200			
Category 8	10	1	14411	134400			
Category 9	15	1	20251	172800			
Category 10	15	1	27952	172800			
Category 11	5	2	3630	14400	QPSK		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600			
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	–	
			23370	345600	–	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	–	
			27952	345600	–	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400			
Category 21	15	1	23370	345600	-	-	QPSK, 16QAM
Category 22	15	1	27952	345600			
Category 23	15	1	35280	518400			QPSK, 16QAM, 64QAM
Category 24	15	1	42192	518400			

5.3.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) 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.

B) 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.

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

5.3.4 Additional requirements for TDD LTE specification

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table: Uplink-downlink configurations for uplink-downlink configurations and Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS) for Special subframe configurations.

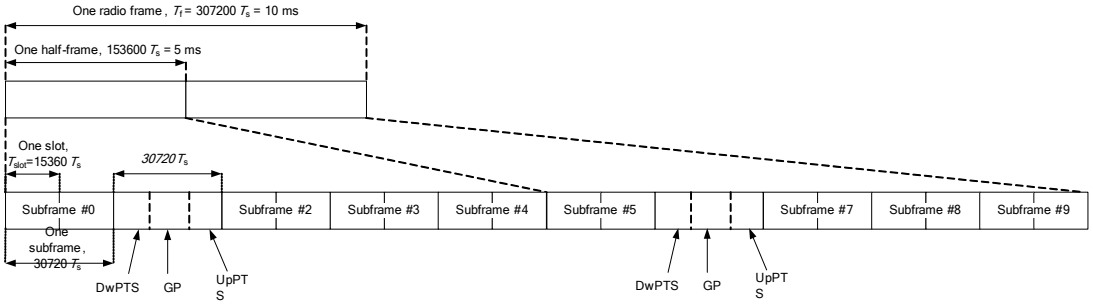


Figure 1: Frame structure type 2

Table 7: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 T_s$			$20480 T_s$		
2	$21952 T_s$			$23040 T_s$		
3	$24144 T_s$			$25600 T_s$		
4	$26336 T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 T_s$		
6	$19760 T_s$			$23040 T_s$		
7	$21952 T_s$			$12800 \cdot T_s$		
8	$24144 T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 8: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to Figure 1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table: Uplink-downlink configurations:

Duty cycle = (30720Ts*Ups + Uplink Component*Specials)/(307200Ts)

About the uplink component of Special subframes, we can figure out by Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS):

Uplink Component = UpPTS

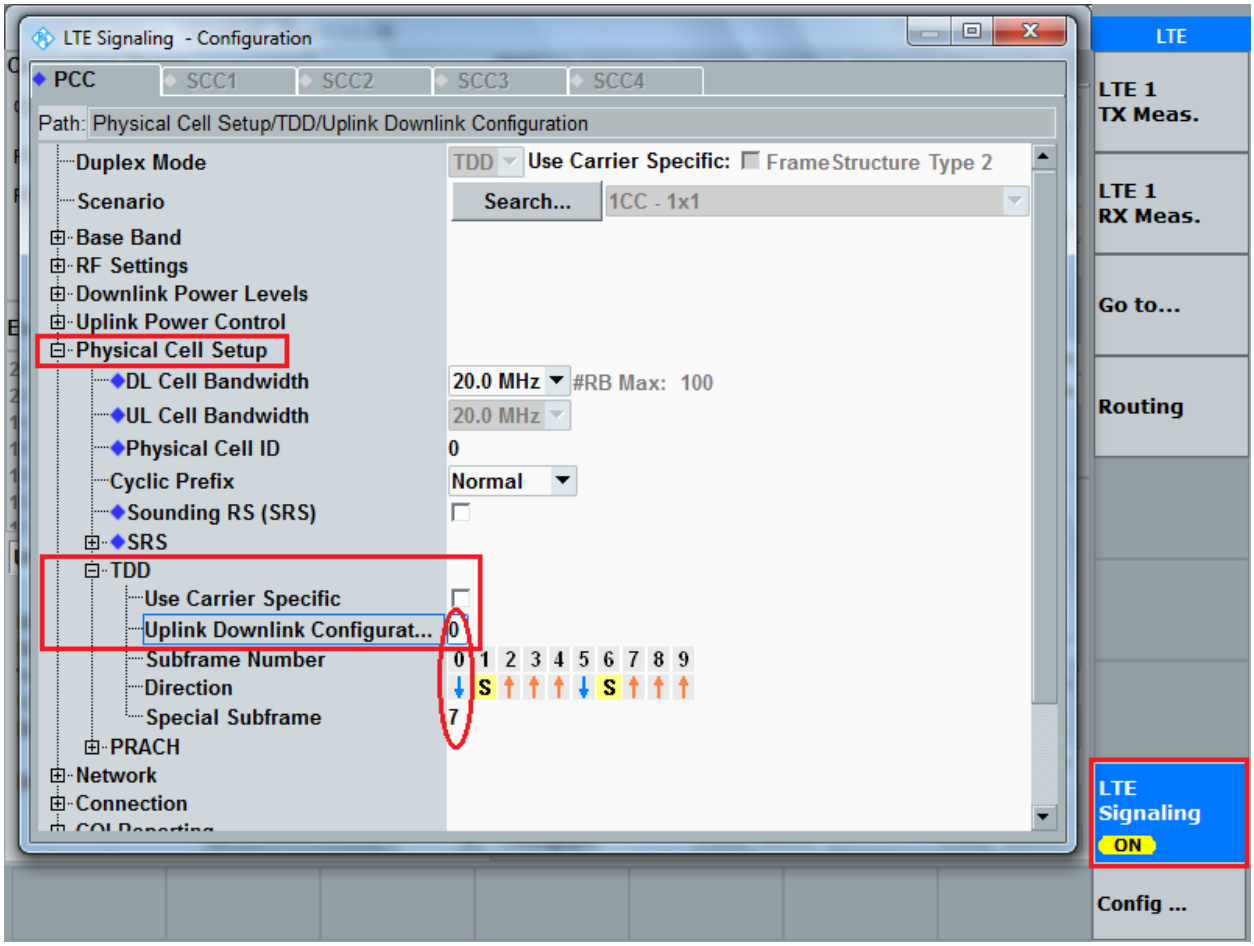
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

Duty cycle = [(30720Ts*Ups) + UpPTS *Specials]/(307200Ts)

And we can get different Duty cycles under different configurations:

Uplink-downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclic prefix in downlink				Extended cyclic prefix in downlink			
				Normal cyclic prefix in uplink		Extended cyclic prefix in uplink		Normal cyclic prefix in uplink		Extended cyclic prefix in uplink	
	D	S	U	configuration 0~4	configuration 5~9	configuration 0~4	configuration 5~9	configuration 0~3	configuration 4~7	configuration 0~3	configuration 4~7
0	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

SAR test Plan: For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type



5.3.5 Wi-Fi Test Configuration

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; These are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the *initial test position(s)* by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The *initial test position(s)* is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the *reported* SAR for the *initial test position* is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the *initial test position* to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the *reported* SAR is ≤ 0.8 W/kg or all required test positions are tested.
    - ✧ For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
    - ✧ When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported* SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is ≤ 1.2 W/kg or all required test channels are considered.
    - ✧ The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

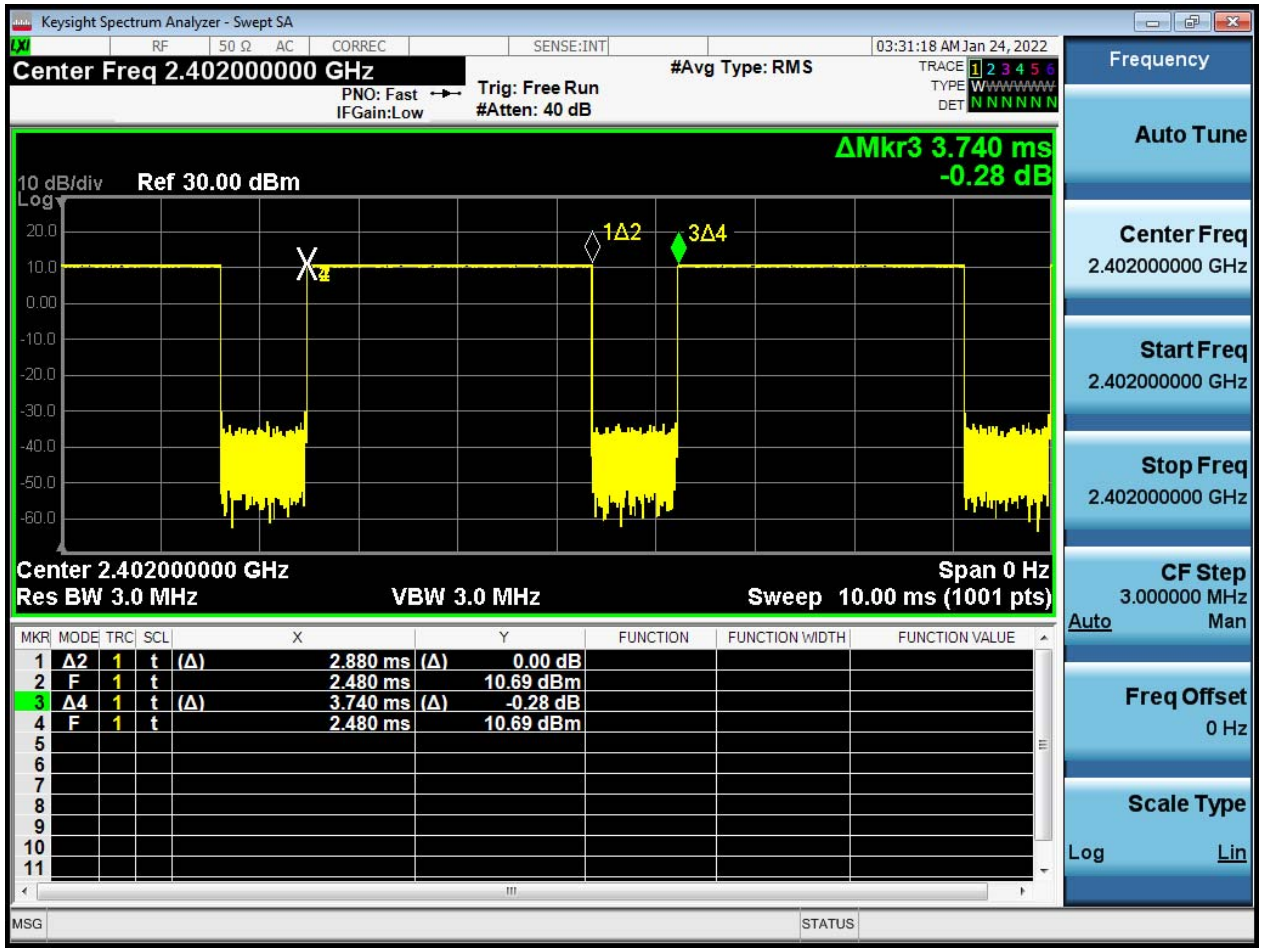
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

A Wi-Fi device must be 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 for SAR measurement.

5.3.6 BT Test Configuration

For BT SAR testing, BT engineering testing software installed on the EUT can provide continuous transmitting RF signal with maximum output power. And the CBT control the EUT operating with hoping off and data rate set for DH5.

The SAR measurement takes full account of the BT duty cycle and is reflected in the report, and the duty factor of the device is as follow:



Note: Duty factor= Ton (ms)/ T(on+off) (ms)=2.880 /3.740*100%=77%

5.3.7 Power reduced detection mechanism specification

This device support the receiver and hotspot detection mechanism, the main purpose of which are to minimize triggering associated with power reduction scenarios and provide enhanced user experience. It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. Receiver detection can determine proximity to head. Hotspot faction determine proximity to body, and they set the relevant power level for 2G&3G&4G & Wi-Fi antennas accordingly.

More details information followings:

Original

Main Antenna		Power Reduction Level Amount (dB)												
Power Reduction Scenario	Receiver/Hotsopt	GSM850	GSM1900	UMTS B2	UMTS B4	UMTS B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66
MAX Power	MAX Power	33.80	30.80	24.40	24.20	25.30	24.40	24.20	25.30	24.50	25.00	25.30	24.90	24.20
Standalone	Receiver on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	2.00	0.00
	Receiver off	0.00	0.00	0.00	0.80	0.00	0.00	0.80	0.00	1.70	0.00	0.00	0.40	0.80
	Receiver off+Hotspot	3.00	0.00	2.00	1.50	0.00	2.00	1.50	0.00	3.50	0.00	0.00	2.00	1.50

Div Antenna		Power Reduction Level Amount (dB)							
Power Reduction Scenario	Receiver/Hotsopt	GSM1900	UMTS B2	UMTS B4	LTE B2	LTE B4	LTE B7	LTE B38	LTE B66
MAX Power	MAX Power	30.80	24.20	24.00	24.20	24.00	24.40	24.80	24.00
Standalone	Receiver on	1.10	3.50	3.20	3.50	3.20	0.00	0.00	3.20
	Receiver off	0.00	2.40	3.00	2.40	3.00	0.00	0.00	3.00
	Receiver off+Hotspot	1.10	3.50	3.20	3.50	3.20	0.00	0.00	3.20

Wi-Fi Antenna		Power Reduction Level Amount (dB)									
Power Reduction Scenario	Receiver/Hotsopt	WiFi 2.4G 11b	WiFi 2.4G 11g	WiFi 2.4G 11n HT20	WiFi 2.4G 11n HT40	WiFi 5G 11a	WiFi 5G 11n HT20	WiFi 5G 11n HT40	WiFi 5G 802.11ac -VHT20	WiFi 5G 802.11ac- VHT40	WiFi 5G 802.11ac- VHT80
MAX Power	MAX Power	19.00	19.50	19.50	15.00	18.50	18.50	17.50	18.50	17.50	17.00
Standalone	Receiver on	3.00	3.50	3.50	0.00	3.50	3.50	2.50	3.50	2.50	2.00
	Receiver off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Receiver off+Hotspot	0.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00

Variant

Main Antenna		Power Reduction Level Amount（dB）								
Power Reduction Scenario	Receiver/Hotspot	GSM850	GSM1900	WCDMA 2	WCDMA 4	LTE 2	LTE 4	LTE 7	LTE 38	LTE 66
Standalone	Receiver on	0.00	0.00	0.00	0.00	0.00	0.00	4.00	2.00	0.00
	Receiver off	0.00	0.00	0.60	0.80	0.60	0.80	2.50	0.40	0.80
	Receiver off+Hotspot on	3.00	0.00	2.00	1.50	2.00	1.50	5.00	3.50	1.50

Div Antenna		Power Reduction Level Amount（dB）						
Power Reduction Scenario	Receiver/Hotspot	WCDMA 2	WCDMA 4	LTE 2	LTE 4	LTE 7	LTE 38	LTE 66
Standalone	Receiver on	3.50	3.20	3.50	3.20	0.00	0.00	3.20
	Receiver off	3.00	3.00	3.00	3.00	1.00	0.00	3.00
	Receiver off+Hotspot on	5.50	6.50	5.50	6.50	3.00	3.00	6.50

5.3.8 Country code detection mechanism

The device uses the mobile country code (MCC) to indicate whether the users in CE countries or France or FCC countries. The selection between CE countries and France and FCC countries power levels is based on the country code detection mechanism. It can determine the countries where users are and set the relevant power level for 234G and Wi-Fi antennas accordingly.

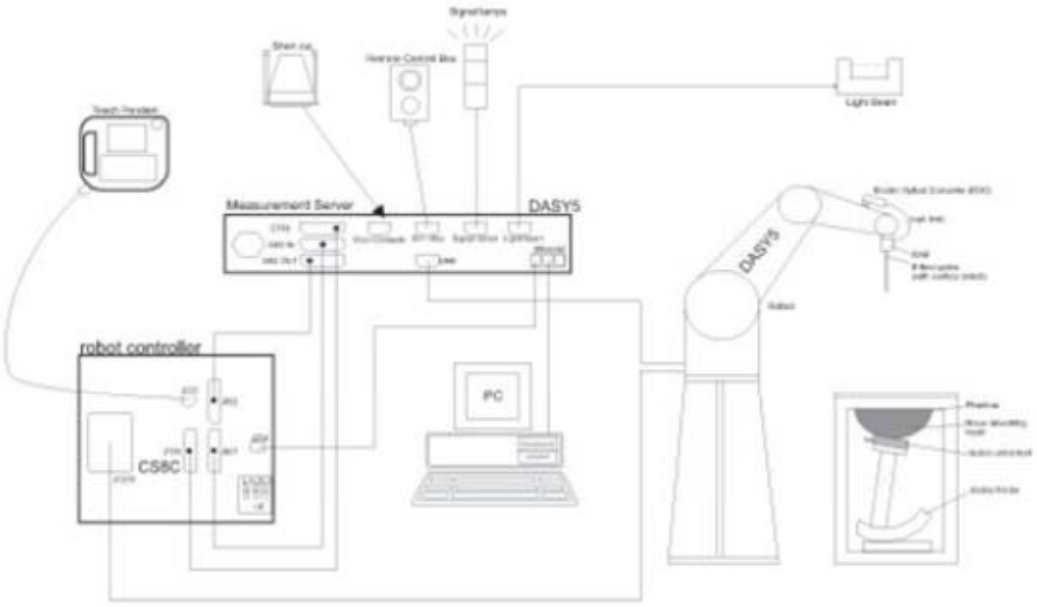
Summary test plan:

For conducted power test, both the full power level and reduced power level will be tested by setting different MCC to validate that the country code detection mechanism works.

6 SAR Measurements System Configuration

6.1 SAR Measurement Set-up

The DASY system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure Scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy was evaluated and found to be better than ± 0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies bellow 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR=C\Delta T/\Delta t$$

Where: Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

Or

$$SAR=|E|^2\sigma/\rho$$

Where: σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m^3).

6.3 SAR Measurement Procedure

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.
Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

<table>
<tr><td></td><td>≤3 GHz</td><td>> 3 GHz</td></tr>
<tr><td>Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td>Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td rowspan="2">Maximum area scan spatial resolution: ΔxArea, ΔyArea</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
</table>

Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

<table>
<tr><td colspan="3"></td><td>≤3GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: $\triangle x_{zoom} \triangle y_{zoom}$</td><td>≤2GHz: ≤8mm
2 – 3GHz: ≤5mm*</td><td>3 – 4GHz: ≤5mm*
4 – 6GHz: ≤4mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">Uniform grid: $\triangle z_{zoom}(n)$</td><td>≤5mm</td><td>3 – 4GHz: ≤4mm
4 – 5GHz: ≤3mm
5 – 6GHz: ≤2mm</td></tr>
<tr><td rowspan="2">Graded grid</td><td>$\triangle z_{zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤4mm</td><td>3 – 4GHz: ≤3mm
4 – 5GHz: ≤2.5mm
5 – 6GHz: ≤2mm</td></tr>
<tr><td>$\triangle z_{zoom}(n>1)$: between subsequent points</td><td colspan="2">≤1.5•$\triangle z_{zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">X, y, z</td><td>≥30mm</td><td>3 – 4GHz: ≥28mm
4 – 5GHz: ≥25mm
5 – 6GHz: ≥22mm</td></tr>
<tr><td colspan="5">Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4W/kg, ≤8mm, ≤7mm and ≤5mm zoom scan resolution may be applied, respectively, for 2GHz to 3GHz, 3GHz to 4GHz and 4GHz to 6GHz.</td></tr>
</table>

Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

7 Main Test Equipment

Original: Date of Testing: January 14, 2022 ~ January 28, 2022 and February 14, 2022

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Cal.	Cal. Due Date
Network analyzer	Agilent	E5071B	MY42404014	2021-05-15	2022-05-14
Dielectric Probe Kit	Agilent	85070E	US44020115	/	/
Power meter	Agilent	E4417A	GB41291714	2021-05-15	2022-05-14
Power sensor	Agilent	N8481H	MY50350004	2021-05-15	2022-05-14
Power sensor	Agilent	E9327A	US40441622	2021-05-15	2022-05-14
Dual directional coupler	Agilent	778D-012	50519	/	/
Dual directional coupler	Agilent	777D	50146	/	/
Dual directional coupler	UCL	UCL-DDC056G-S	20010600118	/	/
Amplifier	INDEXSAR	TPA-005060G01	13030502	2021-05-15	2022-05-14
Wireless communication tester	Anritsu	MT8820C	6201342015	2021-12-12	2022-12-11
Wideband radio communication tester	R&S	CMW 500	113645	2021-05-15	2022-05-14
Base Station Simulator	R&S	CMW270	100673	2021-05-15	2022-05-14
E-field Probe	SPEAG	EX3DV4	3677	2021-08-12	2022-08-11
DAE	SPEAG	DAE4	1317	2021-02-23	2022-02-22
Validation Kit 750MHz	SPEAG	D750V3	1045	2020-08-28	2023-08-27
Validation Kit 835MHz	SPEAG	D835V2	4d020	2020-08-28	2023-08-27
Validation Kit 1750MHz	SPEAG	D1750V2	1033	2020-02-25	2023-02-24
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	2020-08-27	2023-08-26
Validation Kit 2450MHz	SPEAG	D2450V2	786	2020-08-27	2023-08-26
Validation Kit 2600MHz	SPEAG	D2600V2	1025	2021-04-23	2024-04-22
Validation Kit 5GHz	SPEAG	D5GHzV2	1151	2020-02-27	2023-02-26
Temperature Probe	Tianjin jinming	JM222	381	2021-05-15	2022-05-14
Hygrothermograph	Anymetr	HTC - 1	TY2020A001	2021-05-15	2022-05-14
Twin SAM Phantom	Speag	SAM1	1534	/	/
Software for Test	Speag	DASY52	/	/	/
Softwarefor Tissue	Agilent	85070	/	/	/

Variant: Date of Testing: July 4, 2022~ July 6, 2022

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Cal.	Cal. Due Date
Network analyzer	Agilent	E5071B	MY42404014	2022-05-14	2023-05-13
Signal Generator	Agilent	N5181A	MY50140143	2022-05-14	2023-05-13
Dielectric Probe Kit	Agilent	85070E	US44020115	/	/
Power meter	Agilent	E4417A	GB41291714	2022-05-14	2023-05-13
Power sensor	R&S	NRP18S	101955	2022-05-14	2023-05-13
Dual directional coupler	UCL	UCL-DDC056G-S	20010600118	/	/
Amplifier	INDEXSAR	TPA-005060G01	13030502	2022-05-13	2023-05-14
Wireless communication tester	Anritsu	MT8820C	6201342015	2021-12-12	2022-12-11
Wideband radio communication tester	R&S	CMW 500	146734	2022-05-14	2023-05-13
E-field Probe	SPEAG	EX3DV4	3677	2021-08-12	2022-08-11
DAE	SPEAG	DAE4	1692	2021-10-04	2022-10-03
Validation Kit 750MHz	SPEAG	D750V3	1045	2020-08-28	2023-08-27
Validation Kit 835MHz	SPEAG	D835V2	4d020	2020-08-28	2023-08-27
Validation Kit 1750MHz	SPEAG	D1750V2	1033	2020-02-25	2023-02-24
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	2020-08-27	2023-08-26
Validation Kit 2450MHz	SPEAG	D2450V2	786	2020-08-27	2023-08-26
Validation Kit 2600MHz	SPEAG	D2600V2	1025	2021-04-23	2024-04-22
Validation Kit 5GHz	SPEAG	D5GHzV2	1151	2020-02-27	2023-02-26
Temperature Probe	Tianjin jinming	JM222	381	2022-05-14	2023-05-13
Hygrothermograph	Anymetr	HTC - 1	TY2020A001	2022-05-14	2023-05-13
Twin SAM Phantom	Speag	SAM2	1666	/	/
Software for Test	Speag	DASY52	/	/	/
Softwarefor Tissue	Agilent	85070	/	/	/

8 Tissue Dielectric Parameter Measurements & System Verification

8.1 Tissue Verification

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within ± 2°C of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)	ε_r	σ(s/m)
750	41.9	0.89
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2450	39.2	1.80
2600	39.0	1.96
Frequency (MHz)	**ε_r**	**σ(s/m)**
5250	35.9	4.71
5600	35.5	5.07
5750	35.4	5.22

Measurements results

Original

Frequency (MHz)	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ε_r	σ(s/m)	ε_r	σ(s/m)	Dev ε_r(%)	Dev σ(%)
750	2022/1/15	21.5	42.3	0.88	41.5	0.90	1.93	-2.22
835	2022/1/14	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	2022/1/15	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
1750	2022/1/18	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	2022/1/19	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	2022/1/22	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
	2022/1/23	21.5	40.0	1.33	40.1	1.37	-0.25	-2.92
1900	2022/1/20	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	2022/1/21	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	2022/1/24	21.5	40.0	1.40	40.0	1.40	0.00	0.00
2450	2022/1/25	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
2600	2022/1/16	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	2022/1/17	21.5	38.4	1.94	39.0	1.96	-1.54	-1.02
5250	2022/1/27	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
	2022/2/14	21.5	35.7	4.74	35.9	4.71	-0.56	0.64
5600	2022/1/26	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
	2022/2/14	21.5	34.4	5.17	35.5	5.07	-3.10	1.97
5750	2022/1/28	21.5	34.9	5.21	35.4	5.22	-1.41	-0.19
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.								

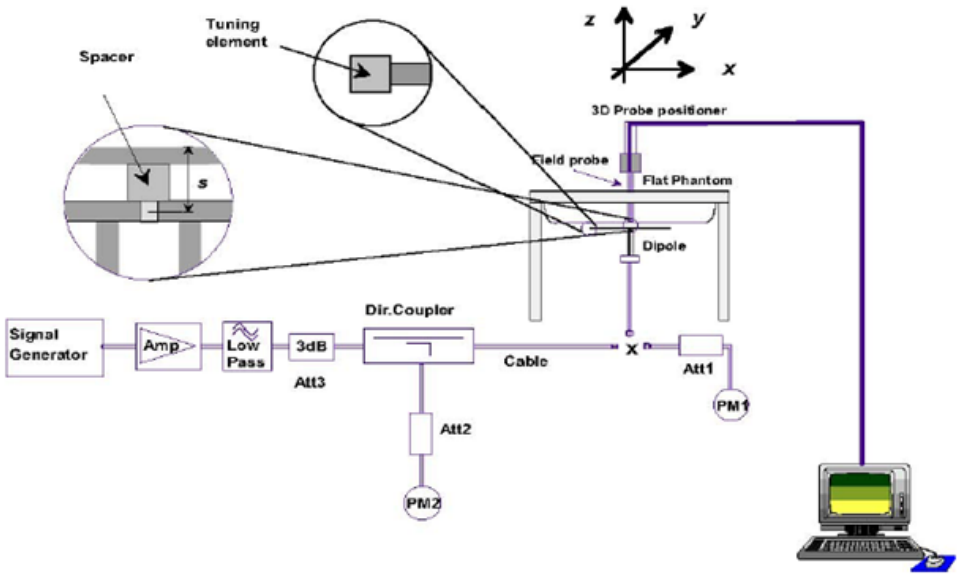
Variant

Frequency (MHz)	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ε_r	σ(s/m)	ε_r	σ(s/m)	Dev ε_r(%)	Dev σ(%)
750	2022/7/4	21.5	41.8	0.89	41.5	0.90	0.72	-1.11
835	2022/7/4	21.5	41.4	0.92	41.5	0.90	-0.24	2.22
1750	2022/7/5	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	2022/7/5	21.5	40.0	1.40	40.0	1.40	0.00	0.00
2450	2022/7/5	21.5	38.5	1.84	39.2	1.80	-1.79	2.22
2600	2022/7/5	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
5250	2022/7/6	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
5600	2022/7/6	21.5	35.5	5.19	35.5	5.07	0.00	2.37
5750	2022/7/6	21.5	35.0	5.28	35.4	5.22	-1.13	1.15
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.								

8.2 System Performance Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASY system.



Picture 1System Performance Check setup

Picture 2 Setup Photo

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (< - 20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
Dipole D750V3 SN: 1045	Head Liquid	8/28/2020	-26.6	/	54.3	/
		8/27/2021	-26.2	-1.5	53.9	-0.4
Dipole D835V2 SN: 4d020	Head Liquid	8/28/2020	-26.2	/	54.8	/
		8/27/2021	-26.5	1.1	55.2	0.4
Dipole D1750V2 SN: 1033	Head Liquid	2/25/2020	-38.3	/	48.8	/
		2/24/2021	-40.0	4.4	49.9	1.1
		2/23/2022	-40.6	1.5	51.1	1.2
Dipole D1900V2 SN: 5d060	Head Liquid	8/27/2020	-23.3	/	52.5	/
		8/26/2021	-23.0	-1.3	51.9	-0.6
Dipole D2450V2 SN: 786	Head Liquid	8/27/2020	-26.9	/	54.5	/
		8/26/2021	-27.1	0.7	53.8	-0.7
Dipole D5GHzV2 SN: 1151 (5250MHz)	Head Liquid	2/27/2020	-23.4	/	52.4	/
		2/26/2021	-23.8	1.7	50.0	-2.4
		2/25/2022	-23.9	0.4	49.3	-0.7
Dipole D5GHzV2 SN: 1151 (5600MHz)	Head Liquid	2/27/2020	-22.6	/	52.4	/
		2/26/2021	-21.5	-4.9	50.0	-2.4
		2/25/2022	-20.9	-2.8	49.3	-0.7
Dipole D5GHzV2 SN: 1151 (5750MHz)	Head Liquid	2/27/2020	-25.0	/	55.9	/
		2/26/2021	-26.8	-1.8	52.5	-3.4
		2/25/2022	-27.1	1.1	52.1	-0.4

System Check results

Frequency (MHz)	Test Date	Temp ℃	250mW Measured SAR_{1g} (W/kg)	1W Normalized SAR_{1g} (W/kg)	1W Target SAR_{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	2022/1/15	21.5	2.13	8.52	8.37	1.79	1
835	2022/1/14	21.5	2.44	9.76	9.65	1.14	2
	2022/1/15	21.5	2.46	9.84	9.65	1.97	3
1750	2022/1/18	21.5	8.95	35.80	35.90	-0.28	4
	2022/1/19	21.5	9.11	36.44	35.90	1.50	5
	2022/1/22	21.5	8.96	35.84	35.90	-0.17	6
	2022/1/23	21.5	8.92	35.68	35.90	-0.61	7
1900	2022/1/20	21.5	9.88	39.52	39.50	0.05	8
	2022/1/21	21.5	9.85	39.40	39.50	-0.25	9
	2022/1/24	21.5	10.05	40.20	39.50	1.77	10
2450	2022/1/25	21.5	13.70	54.80	52.30	4.78	11
2600	2022/1/16	21.5	13.90	55.60	56.10	-0.89	12
	2022/1/17	21.5	13.88	55.52	56.10	-1.03	13
5250	2022/1/27	21.5	7.87	78.70	78.00	0.90	14
	2022/2/14	21.5	7.76	77.60	78.00	-0.51	15
5600	2022/1/26	21.5	7.67	76.70	80.50	-4.72	16
	2022/2/14	21.5	7.98	79.80	80.5	-0.87	17
5750	2022/1/28	21.5	7.66	76.60	77.40	-1.03	18
Note: Target Values used derive from the calibration certificate Data Storage and Evaluation.							

Variant

Frequency (MHz)	Test Date	Temp ℃	250mW /100mW Measured SAR_{1g} (W/kg)	1W Normalized SAR_{1g} (W/kg)	1W Target SAR_{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	2022/7/4	21.5	2.04	8.16	8.37	-2.51	19
835	2022/7/4	21.5	2.43	9.72	9.65	0.73	20
1750	2022/7/5	21.5	8.96	35.84	35.90	-0.17	21
1900	2022/7/5	21.5	9.55	38.20	39.50	-3.29	22
2450	2022/7/5	21.5	13.64	54.56	52.30	4.32	23
2600	2022/7/5	21.5	13.94	55.76	56.10	-0.61	24
5250	2022/7/6	21.5	7.87	78.70	78.00	0.90	25
5600	2022/7/6	21.5	7.94	79.40	80.50	-1.37	26
5750	2022/7/6	21.5	7.72	77.20	77.40	-0.26	27
Note: Target Values used derive from the calibration certificate Data Storage and Evaluation.							

8.3 SAR System Validation

Per FCC KDB 865664 D02v01, SAR system verification is required 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 are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be 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, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Frequency [MHz]	Date	Probe SN	Probe Type	Probe Cal Point		PERM (Er)	COND (Σ)	CW Validation		
								Sensitivity	Probe Linearity	Probe Isotropy
750	2021/8/12	3677	EX3DV4	750	Head	41.9	0.89	PASS	PASS	PASS
835	2021/8/12	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2021/8/12	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2021/8/12	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2450	2021/8/12	3677	EX3DV4	2450	Head	39.2	1.80	PASS	PASS	PASS
2600	2021/8/12	3677	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS
5250	2021/8/12	3677	EX3DV4	5250	Head	35.9	4.71	PASS	PASS	PASS
5600	2021/8/12	3677	EX3DV4	5600	Head	35.5	5.07	PASS	PASS	PASS
5750	2021/8/12	3677	EX3DV4	5750	Head	35.4	5.22	PASS	PASS	PASS

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 865664D01v01 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 (>5dB), such as OFDM according to KDB 865664.

9 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1 GSM Mode

Main Antenna
Original

GSM 850 Body SAR& Receiver on		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	33.80	33.11	33.12	33.14	9.03	24.77	24.08	24.09	24.11
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.80	32.93	33.10	33.02	9.03	24.77	23.90	24.07	23.99
	2 Tx Slots	30.80	29.19	29.65	29.58	6.02	**24.78**	23.17	23.63	23.56
	3 Tx Slots	28.60	26.81	27.48	27.35	4.26	24.34	22.55	23.22	23.09
	4 Tx Slots	27.00	25.14	25.54	25.65	3.01	23.99	22.13	22.53	22.64
EGPRS (8PSK)	1 Tx Slot	27.80	26.87	26.94	26.92	9.03	18.77	17.84	17.91	17.89
	2 Tx Slots	24.80	23.81	24.47	23.84	6.02	18.78	17.79	18.45	17.82
	3 Tx Slots	23.00	21.84	22.12	21.97	4.26	18.74	17.58	17.86	17.71
	4 Tx Slots	21.80	20.25	20.53	20.03	3.01	18.79	17.24	17.52	17.02
GSM 850 Hotspot		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	30.80	29.76	30.04	30.07	9.03	21.77	20.73	21.01	21.04
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.80	29.82	30.12	29.75	9.03	21.77	20.79	21.09	20.72
	2 Tx Slots	27.80	26.27	26.58	26.27	6.02	**21.78**	20.25	20.56	20.25
	3 Tx Slots	25.60	24.14	24.44	24.02	4.26	21.34	19.88	20.18	19.76
	4 Tx Slots	24.00	22.38	22.75	22.44	3.01	20.99	19.37	19.74	19.43
EGPRS (8PSK)	1 Tx Slot	24.80	23.87	24.25	23.85	9.03	15.77	14.84	15.22	14.82
	2 Tx Slots	21.80	20.91	21.16	20.88	6.02	15.78	14.89	15.14	14.86
	3 Tx Slots	20.00	18.46	18.87	18.87	4.26	15.74	14.20	14.61	14.61
	4 Tx Slots	18.80	17.51	17.85	17.72	3.01	15.79	14.50	14.84	14.71
PCS 1900 Body SAR& Hotspot & Receiver on		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.80	29.65	29.91	29.84	9.03	21.77	20.62	20.88	20.81

GPRS/ EGPRS (GMSK)	1 Tx Slot	30.80	29.34	29.87	29.58	9.03	21.77	20.31	20.84	20.55
	2 Tx Slots	27.80	26.21	26.53	26.30	6.02	**21.78**	20.19	20.51	20.28
	3 Tx Slots	25.60	23.87	24.17	23.94	4.26	21.34	19.61	19.91	19.68
	4 Tx Slots	24.20	22.51	22.54	22.33	3.01	21.19	19.50	19.53	19.32
EGPRS (8PSK)	1 Tx Slot	26.50	24.72	24.92	24.72	9.03	17.47	15.69	15.89	15.69
	2 Tx Slots	24.00	22.76	22.74	22.15	6.02	17.98	16.74	16.72	16.13
	3 Tx Slots	21.70	20.01	20.15	19.95	4.26	17.44	15.75	15.89	15.69
	4 Tx Slots	20.50	19.02	18.94	18.74	3.01	17.49	16.01	15.93	15.73

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:
1. Standalone: GSM 850 GMSK (GPRS) mode with 2 time slots, GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above..

Second Antenna

Original

PCS 1900 Receiver on & Hotspot		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	29.70	29.22	29.52	29.52	9.03	20.67	20.19	20.49	20.49
GPRS/ EGPRS (GMSK)	1 Tx Slot	29.70	29.03	29.47	29.22	9.03	20.67	20.00	20.44	20.19
	2 Tx Slots	26.70	25.41	25.84	25.63	6.02	**20.68**	19.39	19.82	19.61
	3 Tx Slots	24.50	23.32	23.56	23.27	4.26	20.24	19.06	19.30	19.01
	4 Tx Slots	23.10	21.79	21.90	21.84	3.01	20.09	18.78	18.89	18.83
EGPRS (8PSK)	1 Tx Slot	25.40	25.07	24.57	25.13	9.03	16.37	16.04	15.54	16.10
	2 Tx Slots	22.90	21.74	21.87	21.86	6.02	16.88	15.72	15.85	15.84
	3 Tx Slots	20.60	19.56	19.54	19.74	4.26	16.34	15.30	15.28	15.48
	4 Tx Slots	19.40	18.64	18.81	18.55	3.01	16.39	15.63	15.80	15.54
PCS 1900 Body SAR		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.80	29.13	29.34	29.24	9.03	21.77	20.10	20.31	20.21
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.80	29.65	30.06	29.82	9.03	21.77	20.62	21.03	20.79
	2 Tx Slots	27.80	26.48	26.76	26.74	6.02	**21.78**	20.46	20.74	20.72
	3 Tx Slots	25.60	24.25	24.54	24.36	4.26	21.34	19.99	20.28	20.10
	4 Tx Slots	24.20	22.96	23.07	22.86	3.01	21.19	19.95	20.06	19.85
EGPRS (8PSK)	1 Tx Slot	26.50	25.13	25.11	25.17	9.03	17.47	16.10	16.08	16.14
	2 Tx Slots	24.00	22.91	22.98	23.01	6.02	17.98	16.89	16.96	16.99
	3 Tx Slots	21.70	21.00	20.87	20.71	4.26	17.44	16.74	16.61	16.45
	4 Tx Slots	20.50	19.07	19.12	18.95	3.01	17.49	16.06	16.11	15.94

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:
1. Standalone: GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above..

9.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

Main Antenna

Original

WCDMA		Band II(dBm) Receiver on				Band II(dBm) Hotspot			
Tx Channel		9262	9400	9538	Tune-up Limit	9262	9400	9538	Tune-up Limit
Frequency(MHz)		1852.4	1880	1907.6		1852.4	1880	1907.6	
RMC	12.2kbps	23.04	**23.33**	23.25	24.40	21.04	**21.31**	21.22	22.40
AMR	12.2kbps	23.18	23.23	23.31	24.40	21.16	21.39	21.08	22.40
HSDPA	Sub 1	21.80	22.19	22.27	23.30	19.94	20.17	20.10	21.30
	Sub 2	22.06	22.11	22.31	23.30	19.90	20.13	19.96	21.30
	Sub 3	21.28	21.77	21.63	22.80	19.38	19.71	19.50	20.80
	Sub 4	21.54	21.73	21.65	22.80	19.48	19.63	19.68	20.80
HSUPA	Sub 1	22.08	22.21	22.23	23.30	20.06	20.31	20.16	21.30
	Sub 2	20.08	20.39	20.05	21.30	18.02	18.17	18.26	19.30
	Sub 3	20.80	21.07	21.11	22.30	18.84	19.29	19.18	20.30
	Sub 4	20.10	20.33	20.13	21.30	18.10	18.29	18.26	19.30
	Sub 5	22.04	22.23	22.07	23.30	19.78	20.33	20.02	21.30
DC-HSDPA	Sub 1	21.80	22.27	22.17	23.30	19.84	20.27	19.98	21.30
	Sub 2	22.06	22.21	22.03	23.30	20.02	20.25	20.08	21.30
	Sub 3	21.60	21.81	21.63	22.80	19.40	19.87	19.50	20.80
	Sub 4	21.30	21.59	21.61	22.80	19.36	19.77	19.46	20.80

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band IV(dBm) Hotspot				Band IV(dBm) Receiver on				Band IV(dBm) Body SAR			
Tx Channel		1312	1413	1513	Tune-up Limit	1312	1413	1513	Tune-up Limit	1312	1413	1513	Tune-up Limit
Frequency(MHz)		1712.4	1732.6	1752.6		1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
RMC	12.2kbps	21.70	**21.82**	21.78	22.70	23.15	23.16	**23.34**	24.20	22.25	**22.39**	**22.39**	23.40
AMR	12.2kbps	21.72	21.70	21.76	22.70	23.17	23.04	23.30	24.20	22.17	22.39	22.23	23.40
HSDPA	Sub 1	21.24	21.34	21.50	22.30	22.87	22.70	22.98	23.80	21.91	22.07	22.07	23.00
	Sub 2	21.38	21.42	21.26	22.30	22.61	22.62	22.90	23.80	21.69	21.87	21.89	23.00
	Sub 3	20.84	21.02	20.82	21.80	22.21	22.18	22.34	23.30	21.23	21.55	21.65	22.50
	Sub 4	20.74	20.98	21.02	21.80	22.25	22.28	22.38	23.30	21.23	21.39	21.59	22.50
HSUPA	Sub 1	20.42	20.28	20.32	21.30	21.63	21.88	21.98	22.80	20.71	20.97	20.91	22.00

	Sub 2	19.56	19.68	19.62	20.50	20.83	20.84	21.04	22.00	19.97	20.31	20.09	21.20
	Sub 3	19.40	19.72	19.48	20.50	20.89	21.02	21.04	22.00	19.89	20.19	20.25	21.20
	Sub 4	19.68	19.90	19.74	20.70	21.13	21.20	21.44	22.20	20.09	20.27	20.31	21.40
	Sub 5	21.18	21.44	21.34	22.30	22.59	22.78	23.00	23.80	21.99	21.95	21.87	23.00
DC-HSDPA	Sub 1	21.30	21.58	21.36	22.30	22.65	22.88	22.98	23.80	21.97	22.03	21.97	23.00
	Sub 2	21.36	21.42	21.40	22.30	22.71	22.88	23.06	23.80	22.01	21.85	21.87	23.00
	Sub 3	20.66	20.98	20.92	21.80	22.41	22.22	22.52	23.30	21.37	21.57	21.45	22.50
	Sub 4	20.82	20.92	21.02	21.80	22.23	22.16	22.48	23.30	21.51	21.51	21.51	22.50

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band V(dBm) Body SAR & Receiver on & Hotspot			
Tx Channel		4132	4183	4233	Tune-up Limit
Frequency(MHz)		826.4	836.6	846.6	
RMC	12.2kbps	**24.34**	24.15	24.16	25.30
AMR	12.2kbps	24.26	24.19	24.08	25.30
HSDPA	Sub 1	23.52	23.29	23.48	24.50
	Sub 2	23.38	23.37	23.48	24.50
	Sub 3	23.04	23.01	22.94	24.00
	Sub 4	22.92	22.93	22.78	24.00
HSUPA	Sub 1	22.92	22.73	23.00	24.00
	Sub 2	21.48	21.51	21.26	22.50
	Sub 3	22.22	22.17	22.04	23.30
	Sub 4	21.82	21.43	21.40	22.80
	Sub 5	23.64	23.25	23.24	24.60
DC-HSDPA	Sub 1	23.64	23.45	23.52	24.50
	Sub 2	23.50	23.47	23.46	24.50
	Sub 3	23.00	22.83	22.72	24.00
	Sub 4	23.04	22.97	22.92	24.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

Variant

WCDMA		Band II(dBm)			
Tx Channel		9262	9400	9538	Tune-up Limit
Frequency(MHz)		1852.4	1880	1907.6	
RMC	12.2kbps	**22.71**	**22.71**	22.60	23.80
AMR	12.2kbps	22.85	22.75	22.64	23.80
HSDPA	Sub 1	21.63	21.65	21.52	22.70
	Sub 2	21.65	21.69	21.44	22.70
	Sub 3	20.97	21.15	21.06	22.20
	Sub 4	21.01	21.21	21.08	22.20
HSUPA	Sub 1	21.71	21.51	21.46	22.70
	Sub 2	19.47	19.75	19.38	20.70
	Sub 3	20.59	20.75	20.52	21.70
	Sub 4	19.45	19.75	19.58	20.70
	Sub 5	21.59	21.55	21.40	22.70
DC-HSDPA	Sub 1	21.77	21.71	21.56	22.70
	Sub 2	21.45	21.77	21.50	22.70
	Sub 3	21.05	21.23	21.06	22.20
	Sub 4	20.99	21.15	21.08	22.20

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

Second Antenna

Original

WCDMA		Band II(dBm) Receiver on				Band II(dBm) Hotspot				Band II(dBm) Body SAR			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	18.99	**19.31**	19.05	20.70	18.96	**19.34**	19.06	20.70	20.08	**20.63**	20.11	21.80
AMR	12.2kbps	19.15	19.45	19.19	20.70	18.98	19.46	18.92	20.70	19.94	20.71	19.95	21.80
HSDPA	Sub 1	17.81	18.33	17.89	19.60	17.98	18.16	17.92	19.60	19.00	19.51	19.09	20.70
	Sub 2	17.97	18.31	17.95	19.60	17.96	18.16	17.92	19.60	18.82	19.57	18.89	20.70
	Sub 3	17.37	17.63	17.57	19.10	17.46	17.90	17.44	19.10	18.38	18.91	18.39	20.20
	Sub 4	17.35	17.87	17.41	19.10	17.50	17.78	17.36	19.10	18.62	19.17	18.39	20.20
HSUPA	Sub 1	17.91	18.35	17.97	19.60	17.82	18.18	17.90	19.60	19.02	19.49	18.93	20.70
	Sub 2	15.79	16.11	15.89	17.60	16.02	16.08	15.82	17.60	16.94	17.55	17.07	18.70
	Sub 3	16.95	17.05	16.89	18.60	16.90	17.14	16.88	18.60	17.84	18.55	18.01	19.70
	Sub 4	16.01	16.27	15.81	17.60	15.90	16.28	15.82	17.60	16.90	17.43	17.13	18.70
	Sub 5	17.97	18.31	18.01	19.60	17.88	18.08	18.02	19.60	19.06	19.65	19.05	20.70
DC-HSDPA	Sub 1	17.83	18.25	17.99	19.60	17.98	18.18	18.10	19.60	18.96	19.51	18.93	20.70
	Sub 2	17.97	18.23	17.81	19.60	17.98	18.32	18.04	19.60	18.86	19.51	19.11	20.70
	Sub 3	17.55	17.71	17.37	19.10	17.36	17.60	17.34	19.10	18.62	19.07	18.63	20.20
	Sub 4	17.41	17.83	17.51	19.10	17.48	17.62	17.62	19.10	18.38	18.87	18.47	20.20

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band IV(dBm) Receiver on				Band IV(dBm) Body SAR			
Tx Channel		1312	1413	1513	Tune-up Limit	1312	1413	1513	Tune-up Limit
Frequency(MHz)		1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
RMC	12.2kbps	19.68	19.69	**19.87**	20.80	19.40	19.50	**20.43**	21.00
AMR	12.2kbps	19.62	19.59	19.81	20.80	19.28	19.48	20.29	21.00
HSDPA	Sub 1	19.38	19.39	19.41	20.40	18.84	18.94	19.95	20.60
	Sub 2	19.20	19.33	19.43	20.40	18.98	19.20	20.17	20.60
	Sub 3	18.66	18.85	18.85	19.90	18.64	18.50	19.53	20.10
	Sub 4	18.84	18.69	19.03	19.90	18.48	18.46	19.53	20.10
HSUPA	Sub 1	18.22	18.39	18.55	19.40	17.98	18.20	19.03	19.60
	Sub 2	17.50	17.43	17.83	18.60	17.20	17.16	18.39	18.80
	Sub 3	17.42	17.53	17.83	18.60	17.04	17.24	18.35	18.80
	Sub 4	17.80	17.83	17.89	18.80	17.50	17.38	18.57	19.00
	Sub 5	19.22	19.29	19.33	20.40	19.02	19.22	19.87	20.60
DC-HSDPA	Sub 1	19.22	19.45	19.55	20.40	18.90	19.10	19.89	20.60
	Sub 2	19.12	19.35	19.37	20.40	19.16	19.22	20.17	20.60
	Sub 3	18.82	18.89	19.07	19.90	18.52	18.48	19.63	20.10
	Sub 4	18.86	18.81	18.93	19.90	18.34	18.74	19.53	20.10
Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".									

Variant

WCDMA		Band IV(dBm) Hotspot			
Tx Channel		1312	1413	1513	Tune-up Limit
Frequency(MHz)		1712.4	1732.6	1752.6	
RMC	12.2kbps	16.41	16.61	**16.71**	17.50
AMR	12.2kbps	16.55	16.77	16.85	17.50
HSDPA	Sub 1	16.45	16.51	16.63	17.10
	Sub 2	16.25	16.65	16.67	17.10
	Sub 3	15.89	16.19	16.13	16.60
	Sub 4	15.87	15.99	16.27	16.60
HSUPA	Sub 1	15.33	15.75	15.83	16.10
	Sub 2	14.77	14.93	14.85	15.30
	Sub 3	14.73	14.73	14.99	15.30
	Sub 4	14.93	15.13	15.25	15.50
	Sub 5	16.41	16.67	16.87	17.10
DC-HSDPA	Sub 1	16.53	16.47	16.85	17.10
	Sub 2	16.45	16.45	16.55	17.10
	Sub 3	15.99	16.03	16.33	16.60
	Sub 4	15.79	16.03	16.15	16.60
Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

9.3 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

Main Antenna

Original

LTE FDD Band 2 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.31	23.72	23.34	24.40
		1	2	23.31	23.10	23.25	24.40
		1	5	23.18	23.07	22.96	24.40
		3	0	23.32	23.51	23.35	24.40
		3	2	23.21	23.45	23.38	24.40
		3	3	23.31	23.39	23.32	24.40
		6	0	22.42	22.58	22.46	23.40
	16QAM	1	0	22.55	22.95	22.74	23.40
		1	2	22.53	22.34	22.47	23.40
		1	5	22.31	22.40	21.98	23.40
		3	0	22.55	22.45	22.32	23.40
		3	2	22.24	22.31	22.28	23.40
		3	3	22.29	22.40	22.03	23.40
		6	0	21.40	21.55	21.44	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.33	23.76	23.37	24.40
		1	7	23.29	23.13	23.29	24.40
		1	14	23.21	23.12	23.00	24.40
		8	0	22.42	22.63	22.48	23.40
		8	4	22.33	22.55	22.50	23.40
		8	7	22.41	22.50	22.42	23.40
		15	0	22.42	22.62	22.49	23.40
	16QAM	1	0	22.58	22.97	22.77	23.40
		1	7	22.56	22.34	22.51	23.40

		1	14	22.33	22.44	22.01	23.40
		8	0	21.66	21.58	21.44	22.40
		8	4	21.35	21.44	21.40	22.40
		8	7	21.39	21.52	21.16	22.40
		15	0	21.43	21.59	21.47	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.30	23.74	23.33	24.40
		1	13	23.27	23.09	23.26	24.40
		1	24	23.18	23.07	22.96	24.40
		12	0	22.39	22.58	22.44	23.40
		12	6	22.31	22.51	22.45	23.40
		12	13	22.39	22.48	22.38	23.40
		25	0	22.42	22.61	22.47	23.40
	16QAM	1	0	22.55	22.93	22.74	23.40
		1	13	22.53	22.32	22.48	23.40
		1	24	22.30	22.42	21.97	23.40
		12	0	21.64	21.54	21.41	22.40
		12	6	21.32	21.39	21.36	22.40
		12	13	21.36	21.47	21.12	22.40
		25	0	21.41	21.55	21.42	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	23.32	23.75	23.36	24.40
		1	25	23.30	23.14	23.30	24.40
		1	49	23.20	23.11	22.99	24.40
		25	0	22.42	22.63	22.48	23.40
		25	13	22.34	22.56	22.49	23.40
		25	25	22.41	22.52	22.43	23.40
		50	0	22.46	22.63	22.51	23.40
	16QAM	1	0	22.57	22.96	22.76	23.40
		1	25	22.56	22.36	22.51	23.40
		1	49	22.33	22.44	22.00	23.40
		25	0	21.67	21.59	21.45	22.40
		25	13	21.34	21.43	21.39	22.40
		25	25	21.39	21.52	21.16	22.40
		50	0	21.44	21.60	21.46	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.31	23.71	23.34	24.40
		1	38	23.28	23.13	23.27	24.40
		1	74	23.17	23.06	22.95	24.40
		36	0	22.40	22.59	22.45	23.40

		36	18	22.31	22.51	22.45	23.40
		36	39	22.38	22.49	22.39	23.40
		75	0	22.44	22.59	22.46	23.40
	16QAM	1	0	22.52	22.94	22.74	23.40
		1	38	22.54	22.33	22.49	23.40
		1	74	22.30	22.40	21.97	23.40
		36	0	21.64	21.57	21.42	22.40
		36	18	21.31	21.38	21.35	22.40
		36	39	21.37	21.48	21.13	22.40
		75	0	21.41	21.55	21.42	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	**23.28**	**23.67**	**23.31**	24.40
		1	50	23.27	23.09	23.25	24.40
		1	99	23.15	23.05	22.92	24.40
		50	0	**22.37**	**22.54**	22.41	23.40
		50	25	22.29	22.47	**22.42**	23.40
		50	50	22.35	22.44	22.35	23.40
		100	0	22.41	**22.54**	22.42	23.40
	16QAM	1	0	22.52	22.90	22.69	23.40
		1	50	22.50	22.31	22.45	23.40
		1	99	22.28	22.37	21.95	23.40
		50	0	21.61	21.53	21.39	22.40
		50	25	21.28	21.36	21.32	22.40
		50	50	21.34	21.43	21.09	22.40
		100	0	21.39	21.51	21.39	22.40

LTE FDD Band 2 Hotspot				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.90	21.79	22.16	22.40
		1	2	21.53	21.35	21.18	22.40
		1	5	21.19	21.15	21.23	22.40
		3	0	21.94	21.71	21.57	22.40
		3	2	21.61	21.56	21.26	22.40
		3	3	21.52	21.56	21.48	22.40
		6	0	21.67	21.70	21.52	22.40
	16QAM	1	0	21.81	22.07	22.28	22.40
		1	2	21.79	21.74	21.65	22.40
		1	5	21.30	21.95	21.56	22.40
		3	0	21.44	21.59	21.77	22.40
		3	2	21.54	21.49	21.37	22.40

		3	3	21.36	21.54	21.28	22.40
		6	0	21.60	21.50	21.78	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.88	21.72	22.14	22.40
		1	7	21.53	21.35	21.17	22.40
		1	14	21.16	21.13	21.19	22.40
		8	0	21.92	21.67	21.54	22.40
		8	4	21.59	21.52	21.23	22.40
		8	7	21.48	21.52	21.45	22.40
		15	0	21.66	21.63	21.47	22.40
	16QAM	1	0	21.78	22.04	22.23	22.40
		1	7	21.76	21.73	21.62	22.40
		1	14	21.28	21.90	21.54	22.40
		8	0	21.41	21.58	21.75	22.40
		8	4	21.50	21.46	21.33	22.40
		8	7	21.34	21.50	21.25	22.40
		15	0	21.58	21.46	21.75	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.85	21.70	22.10	22.40
		1	13	21.51	21.31	21.14	22.40
		1	24	21.13	21.08	21.15	22.40
		12	0	21.89	21.62	21.50	22.40
		12	6	21.57	21.48	21.18	22.40
		12	13	21.46	21.50	21.41	22.40
		25	0	21.66	21.62	21.45	22.40
	16QAM	1	0	21.75	22.00	22.20	22.40
		1	13	21.73	21.71	21.59	22.40
		1	24	21.25	21.88	21.50	22.40
		12	0	21.39	21.54	21.72	22.40
		12	6	21.47	21.41	21.29	22.40
		12	13	21.31	21.45	21.21	22.40
		25	0	21.56	21.42	21.70	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.87	21.71	22.13	22.40
		1	25	21.54	21.36	21.18	22.40
		1	49	21.15	21.12	21.18	22.40
		25	0	21.92	21.67	21.54	22.40
		25	13	21.60	21.53	21.22	22.40
		25	25	21.48	21.54	21.46	22.40
		50	0	21.70	21.64	21.49	22.40

	16QAM	1	0	21.77	22.03	22.22	22.40
		1	25	21.76	21.75	21.62	22.40
		1	49	21.28	21.90	21.53	22.40
		25	0	21.42	21.59	21.76	22.40
		25	13	21.49	21.45	21.32	22.40
		25	25	21.34	21.50	21.25	22.40
		50	0	21.59	21.47	21.74	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.86	21.67	22.11	22.40
		1	38	21.52	21.35	21.15	22.40
		1	74	21.12	21.07	21.14	22.40
		36	0	21.90	21.63	21.51	22.40
		36	18	21.57	21.48	21.18	22.40
		36	39	21.45	21.51	21.42	22.40
		75	0	21.68	21.60	21.44	22.40
	16QAM	1	0	21.72	22.01	22.20	22.40
		1	38	21.74	21.72	21.60	22.40
		1	74	21.25	21.86	21.50	22.40
		36	0	21.39	21.57	21.73	22.40
		36	18	21.46	21.40	21.28	22.40
		36	39	21.32	21.46	21.22	22.40
		75	0	21.56	21.42	21.70	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	**21.83**	**21.63**	**22.08**	22.40
		1	50	21.51	21.31	21.13	22.40
		1	99	21.10	21.06	21.11	22.40
		50	0	**21.87**	**21.58**	**21.47**	22.40
		50	25	21.55	21.44	21.15	22.40
		50	50	21.42	21.46	21.38	22.40
		100	0	**21.65**	21.55	21.40	22.40
	16QAM	1	0	21.97	21.97	22.15	22.40
		1	50	21.70	21.70	21.56	22.40
		1	99	21.23	21.83	21.48	22.40
		50	0	21.36	21.53	21.70	22.40
		50	25	21.43	21.38	21.25	22.40
		50	50	21.29	21.41	21.18	22.40
		100	0	21.54	21.38	21.67	22.40

LTE FDD Band 4 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.12	23.49	23.15	24.20
		1	2	23.14	23.33	23.15	24.20
		1	5	22.65	22.57	22.76	24.20
		3	0	22.89	23.63	23.09	24.20
		3	2	22.77	23.24	22.91	24.20
		3	3	22.65	23.31	23.47	24.20
		6	0	21.79	22.20	22.65	23.20
	16QAM	1	0	22.32	22.72	22.65	23.20
		1	2	22.30	23.03	22.61	23.20
		1	5	21.84	22.11	22.13	23.20
		3	0	21.95	22.64	22.71	23.20
		3	2	21.94	22.20	22.40	23.20
		3	3	21.88	22.44	22.57	23.20
		6	0	20.99	21.36	21.52	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	23.14	23.53	23.18	24.20
		1	7	23.12	23.36	23.19	24.20
		1	14	22.68	22.62	22.80	24.20
		8	0	21.99	22.75	22.22	23.20
		8	4	21.89	22.34	22.03	23.20
		8	7	21.75	22.42	22.57	23.20
		15	0	21.79	22.24	22.68	23.20
	16QAM	1	0	22.35	22.74	22.68	23.20
		1	7	22.33	23.03	22.65	23.20
		1	14	21.86	22.15	22.16	23.20
		8	0	21.06	21.77	21.83	22.20
		8	4	21.05	21.33	21.52	22.20
		8	7	20.98	21.56	21.70	22.20
		15	0	21.02	21.40	21.55	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.11	23.51	23.14	24.20
		1	13	23.10	23.32	23.16	24.20
		1	24	22.65	22.57	22.76	24.20
		12	0	21.96	22.70	22.18	23.20
		12	6	21.87	22.30	21.98	23.20
		12	13	21.73	22.40	22.53	23.20
		25	0	21.79	22.23	22.66	23.20

	16QAM	1	0	22.32	22.70	22.65	23.20
		1	13	22.30	23.01	22.62	23.20
		1	24	21.83	22.13	22.12	23.20
		12	0	21.04	21.73	21.80	22.20
		12	6	21.02	21.28	21.48	22.20
		12	13	20.95	21.51	21.66	22.20
		25	0	21.00	21.36	21.50	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.13	23.52	23.17	24.20
		1	25	23.13	23.37	23.20	24.20
		1	49	22.67	22.61	22.79	24.20
		25	0	21.99	22.75	22.22	23.20
		25	13	21.90	22.35	22.02	23.20
		25	25	21.75	22.44	22.58	23.20
		50	0	21.83	22.25	22.70	23.20
	16QAM	1	0	22.34	22.73	22.67	23.20
		1	25	22.33	23.05	22.65	23.20
		1	49	21.86	22.15	22.15	23.20
		25	0	21.07	21.78	21.84	22.20
		25	13	21.04	21.32	21.51	22.20
		25	25	20.98	21.56	21.70	22.20
		50	0	21.03	21.41	21.54	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.12	23.48	23.15	24.20
		1	38	23.11	23.36	23.17	24.20
		1	74	22.64	22.56	22.75	24.20
		36	0	21.97	22.71	22.19	23.20
		36	18	21.87	22.30	21.98	23.20
		36	39	21.72	22.41	22.54	23.20
		75	0	21.81	22.21	22.65	23.20
	16QAM	1	0	22.29	22.71	22.65	23.20
		1	38	22.31	23.02	22.63	23.20
		1	74	21.83	22.11	22.12	23.20
		36	0	21.04	21.76	21.81	22.20
		36	18	21.01	21.27	21.47	22.20
		36	39	20.96	21.52	21.67	22.20
		75	0	21.00	21.36	21.50	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.09	**23.44**	23.12	24.20
		1	50	**23.10**	23.32	**23.15**	24.20

		1	99	22.62	22.55	22.72	24.20
		50	0	**21.94**	**22.66**	22.15	23.20
		50	25	21.85	22.26	21.95	23.20
		50	50	21.69	22.36	**22.50**	23.20
		100	0	21.78	22.16	**22.61**	23.20
	16QAM	1	0	22.12	22.67	22.60	23.20
		1	50	22.27	23.00	22.59	23.20
		1	99	21.81	22.08	22.10	23.20
		50	0	21.01	21.72	21.78	22.20
		50	25	20.98	21.25	21.44	22.20
		50	50	20.93	21.47	21.63	22.20
		100	0	20.98	21.32	21.47	22.20

LTE FDD Band 4 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	22.60	22.65	22.91	23.40
		1	2	22.61	22.53	22.57	23.40
		1	5	22.36	22.34	22.47	23.40
		3	0	22.96	23.19	23.37	23.40
		3	2	22.92	23.11	23.33	23.40
		3	3	22.90	23.34	23.21	23.40
		6	0	21.99	22.18	22.53	23.20
	16QAM	1	0	22.45	22.71	22.72	23.20
		1	2	22.43	22.45	22.55	23.20
		1	5	21.90	21.77	22.22	23.20
		3	0	21.85	22.66	22.55	23.20
		3	2	21.84	22.13	22.26	23.20
		3	3	21.90	22.25	22.43	23.20
		6	0	20.99	21.42	21.48	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.62	22.69	22.94	23.40
		1	7	22.59	22.56	22.61	23.40
		1	14	22.39	22.39	22.51	23.40
		8	0	22.06	22.31	22.50	23.20
		8	4	22.04	22.21	22.45	23.20
		8	7	22.00	22.45	22.31	23.20
		15	0	21.99	22.22	22.56	23.20
	16QAM	1	0	22.48	22.73	22.75	23.20
		1	7	22.46	22.45	22.59	23.20
		1	14	21.92	21.81	22.25	23.20

		8	0	20.96	21.79	21.67	22.20
		8	4	20.95	21.26	21.38	22.20
		8	7	21.00	21.37	21.56	22.20
		15	0	21.02	21.46	21.51	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.59	22.67	22.90	23.40
		1	13	22.57	22.52	22.58	23.40
		1	24	22.36	22.34	22.47	23.40
		12	0	22.03	22.26	22.46	23.20
		12	6	22.02	22.17	22.40	23.20
		12	13	21.98	22.43	22.27	23.20
		25	0	21.99	22.21	22.54	23.20
	16QAM	1	0	22.45	22.69	22.72	23.20
		1	13	22.43	22.43	22.56	23.20
		1	24	21.89	21.79	22.21	23.20
		12	0	20.94	21.75	21.64	22.20
		12	6	20.92	21.21	21.34	22.20
		12	13	20.97	21.32	21.52	22.20
		25	0	21.00	21.42	21.46	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.61	22.68	22.93	23.40
		1	25	22.60	22.57	22.62	23.40
		1	49	22.38	22.38	22.50	23.40
		25	0	22.06	22.31	22.50	23.20
		25	13	22.05	22.22	22.44	23.20
		25	25	22.00	22.47	22.32	23.20
		50	0	22.03	22.23	22.58	23.20
	16QAM	1	0	22.47	22.72	22.74	23.20
		1	25	22.46	22.47	22.59	23.20
		1	49	21.92	21.81	22.24	23.20
		25	0	20.97	21.80	21.68	22.20
		25	13	20.94	21.25	21.37	22.20
		25	25	21.00	21.37	21.56	22.20
		50	0	21.03	21.47	21.50	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.60	22.64	22.91	23.40
		1	38	22.58	22.56	22.59	23.40
		1	74	22.35	22.33	22.46	23.40
		36	0	22.04	22.27	22.47	23.20
		36	18	22.02	22.17	22.40	23.20

		36	39	21.97	22.44	22.28	23.20
		75	0	22.01	22.19	22.53	23.20
	16QAM	1	0	22.42	22.70	22.72	23.20
		1	38	22.44	22.44	22.57	23.20
		1	74	21.89	21.77	22.21	23.20
		36	0	20.94	21.78	21.65	22.20
		36	18	20.91	21.20	21.33	22.20
		36	39	20.98	21.33	21.53	22.20
		75	0	21.00	21.42	21.46	22.20

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	**22.57**	**22.60**	**22.88**	23.40
		1	50	**22.57**	22.52	22.57	23.40
		1	99	22.33	22.32	22.43	23.40
		50	0	**22.01**	22.22	**22.43**	23.20
		50	25	22.00	22.13	22.37	23.20
		50	50	21.94	**22.39**	22.24	23.20
		100	0	21.98	22.14	**22.49**	23.20
	16QAM	1	0	22.26	22.66	22.67	23.20
		1	50	22.40	22.42	22.53	23.20
		1	99	21.87	21.74	22.19	23.20
		50	0	20.91	21.74	21.62	22.20
		50	25	20.88	21.18	21.30	22.20
		50	50	20.95	21.28	21.49	22.20
		100	0	20.98	21.38	21.43	22.20

LTE FDD Band 4 Hotspot				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.64	22.08	22.28	22.70
		1	2	21.74	21.94	22.11	22.70
		1	5	21.73	21.91	21.85	22.70
		3	0	21.81	21.93	21.57	22.70
		3	2	21.61	21.82	21.59	22.70
		3	3	21.75	21.83	21.71	22.70
		6	0	21.55	22.03	21.74	22.70
	16QAM	1	0	21.76	22.04	22.27	22.70
		1	2	21.75	22.04	22.01	22.70
		1	5	21.58	21.65	21.98	22.70
		3	0	21.74	22.01	22.25	22.70
		3	2	21.72	22.00	21.98	22.70
		3	3	21.55	21.63	21.95	22.70

		6	0	20.89	21.24	21.35	22.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.60	22.00	22.23	22.70
		1	7	21.71	21.89	22.06	22.70
		1	14	21.68	21.85	21.78	22.70
		8	0	21.76	21.84	21.50	22.70
		8	4	21.56	21.73	21.52	22.70
		8	7	21.69	21.75	21.63	22.70
		15	0	21.50	21.94	21.65	22.70
	16QAM	1	0	21.71	21.98	22.20	22.70
		1	7	21.69	21.99	21.95	22.70
		1	14	21.53	21.58	21.93	22.70
		8	0	21.01	21.35	21.37	22.70
		8	4	20.78	21.10	21.27	22.70
		8	7	20.84	21.12	21.39	22.70
		15	0	20.84	21.15	21.28	22.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.57	21.98	22.19	22.70
		1	13	21.69	21.85	22.03	22.70
		1	24	21.65	21.80	21.74	22.70
		12	0	21.73	21.79	21.46	22.70
		12	6	21.54	21.69	21.47	22.70
		12	13	21.67	21.73	21.59	22.70
		25	0	21.50	21.93	21.63	22.70
	16QAM	1	0	21.68	21.94	22.17	22.70
		1	13	21.66	21.97	21.92	22.70
		1	24	21.50	21.56	21.89	22.70
		12	0	20.99	21.31	21.34	22.70
		12	6	20.75	21.05	21.23	22.70
		12	13	20.81	21.07	21.35	22.70
		25	0	20.82	21.11	21.23	22.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.59	21.99	22.22	22.70
		1	25	21.72	21.90	22.07	22.70
		1	49	21.67	21.84	21.77	22.70
		25	0	21.76	21.84	21.50	22.70
		25	13	21.57	21.74	21.51	22.70
		25	25	21.69	21.77	21.64	22.70
		50	0	21.54	21.95	21.67	22.70
	16QAM	1	0	21.70	21.97	22.19	22.70

		1	25	21.69	22.01	21.95	22.70
		1	49	21.53	21.58	21.92	22.70
		25	0	21.02	21.36	21.38	22.70
		25	13	20.77	21.09	21.26	22.70
		25	25	20.84	21.12	21.39	22.70
		50	0	20.85	21.16	21.27	22.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.58	21.95	22.20	22.70
		1	38	21.70	21.89	22.04	22.70
		1	74	21.64	21.79	21.73	22.70
		36	0	21.74	21.80	21.47	22.70
		36	18	21.54	21.69	21.47	22.70
		36	39	21.66	21.74	21.60	22.70
		75	0	21.52	21.91	21.62	22.70
	16QAM	1	0	21.65	21.95	22.17	22.70
		1	38	21.67	21.98	21.93	22.70
		1	74	21.50	21.54	21.89	22.70
		36	0	20.99	21.34	21.35	22.70
		36	18	20.74	21.04	21.22	22.70
		36	39	20.82	21.08	21.36	22.70
		75	0	20.82	21.11	21.23	22.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.55	**21.91**	**22.17**	22.70
		1	50	**21.69**	21.85	22.02	22.70
		1	99	21.62	21.78	21.70	22.70
		50	0	**21.71**	**21.75**	21.43	22.70
		50	25	21.52	21.65	21.44	22.70
		50	50	21.63	21.69	**21.56**	22.70
		100	0	21.49	**21.86**	21.58	22.70
	16QAM	1	0	21.76	21.91	22.12	22.70
		1	50	21.63	21.96	21.89	22.70
		1	99	21.48	21.51	21.87	22.70
		50	0	20.96	21.30	21.32	22.70
		50	25	20.71	21.02	21.19	22.70
		50	50	20.79	21.03	21.32	22.70
		100	0	20.80	21.07	21.20	22.70

LTE FDD Band 5 Body SAR& Hotspot& Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	24.45	24.46	24.33	25.30
		1	2	24.43	24.46	24.45	25.30
		1	5	24.04	24.18	23.99	25.30
		3	0	24.36	24.37	24.52	25.30
		3	2	24.30	24.29	24.29	25.30
		3	3	24.29	24.24	24.24	25.30
		6	0	23.27	23.38	23.45	24.30
	16QAM	1	0	23.88	23.84	23.91	24.30
		1	2	23.86	23.68	23.70	24.30
		1	5	23.51	23.39	23.29	24.30
		3	0	23.28	23.35	23.56	24.30
		3	2	23.30	23.25	23.37	24.30
		3	3	23.24	23.35	23.40	24.30
		6	0	22.34	22.40	22.40	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.46	24.49	24.35	25.30
		1	7	24.42	24.50	24.50	25.30
		1	14	24.06	24.22	24.02	25.30
		8	0	23.46	23.49	23.65	24.30
		8	4	23.43	23.40	23.40	24.30
		8	7	23.39	23.37	23.35	24.30
		15	0	23.31	23.43	23.50	24.30
	16QAM	1	0	23.90	23.85	23.93	24.30
		1	7	23.89	23.70	23.74	24.30
		1	14	23.53	23.43	23.31	24.30
		8	0	22.40	22.49	22.69	23.30
		8	4	22.40	22.37	22.48	23.30
		8	7	22.34	22.47	22.53	23.30
		15	0	22.38	22.45	22.42	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.45	24.45	24.33	25.30
		1	13	24.40	24.49	24.47	25.30
		1	24	24.03	24.17	23.98	25.30
		12	0	23.44	23.45	23.62	24.30
		12	6	23.40	23.35	23.36	24.30
		12	13	23.36	23.34	23.31	24.30
		25	0	23.29	23.39	23.45	24.30

		1	0	23.85	23.83	23.91	24.30
		1	13	23.87	23.67	23.72	24.30
		1	24	23.50	23.39	23.28	24.30
	16QAM	12	0	22.37	22.47	22.66	23.30
		12	6	22.37	22.32	22.44	23.30
		12	13	22.32	22.43	22.50	23.30
		25	0	22.35	22.40	22.38	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	**24.42**	24.41	24.30	25.30
		1	25	24.39	**24.44**	**24.45**	25.30
		1	49	24.01	24.16	23.95	25.30
		25	0	**23.41**	**23.40**	**23.58**	24.30
		25	13	23.38	23.31	23.33	24.30
		25	25	23.33	23.29	23.27	24.30
		50	0	23.26	23.34	**23.41**	24.30
	16QAM	1	0	23.77	23.79	23.86	24.30
		1	25	23.83	23.65	23.68	24.30
		1	49	23.48	23.36	23.26	24.30
		25	0	22.34	22.43	22.63	23.30
		25	13	22.34	22.30	22.41	23.30
		25	25	22.29	22.38	22.46	23.30
		50	0	22.33	22.36	22.35	23.30

LTE FDD Band 7 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	20.44	20.33	20.45	21.00
		1	13	20.46	20.23	20.36	21.00
		1	24	20.74	20.44	20.22	21.00
		12	0	20.54	20.30	20.46	21.00
		12	6	20.50	20.57	20.49	21.00
		12	13	20.72	20.58	20.42	21.00
		25	0	20.74	20.38	20.51	21.00
	16QAM	1	0	20.83	20.70	20.61	21.00
		1	13	20.81	20.92	20.82	21.00
		1	24	20.65	20.71	20.71	21.00
		12	0	20.39	20.23	20.54	21.00
		12	6	20.56	20.29	20.44	21.00
		12	13	20.53	20.46	20.50	21.00
		25	0	20.45	20.35	20.44	21.00

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.43	20.32	20.44	21.00
		1	25	20.47	20.24	20.37	21.00
		1	49	20.73	20.43	20.21	21.00
		25	0	20.54	20.30	20.46	21.00
		25	13	20.51	20.58	20.48	21.00
		25	25	20.72	20.60	20.43	21.00
		50	0	20.78	20.39	20.53	21.00
	16QAM	1	0	20.82	20.69	20.60	21.00
		1	25	20.81	20.94	20.82	21.00
		1	49	20.65	20.71	20.70	21.00
		25	0	20.40	20.24	20.55	21.00
		25	13	20.55	20.28	20.43	21.00
		25	25	20.53	20.46	20.50	21.00
		50	0	20.46	20.36	20.43	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	20.43	20.28	20.42	21.00
		1	38	20.45	20.23	20.34	21.00
		1	74	20.70	20.38	20.17	21.00
		36	0	20.52	20.26	20.43	21.00
		36	18	20.48	20.53	20.44	21.00
		36	39	20.69	20.57	20.39	21.00
		75	0	20.76	20.35	20.48	21.00
	16QAM	1	0	20.77	20.67	20.58	21.00
		1	38	20.79	20.91	20.80	21.00
		1	74	20.62	20.67	20.67	21.00
		36	0	20.37	20.22	20.52	21.00
		36	18	20.52	20.23	20.39	21.00
		36	39	20.51	20.42	20.47	21.00
		75	0	20.43	20.31	20.39	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	20.39	20.24	**20.39**	21.00
		1	50	20.44	20.19	20.32	21.00
		1	99	**20.68**	**20.37**	20.14	21.00
		50	0	20.49	20.21	20.39	21.00
		50	25	20.46	20.49	**20.41**	21.00
		50	50	**20.66**	**20.52**	20.35	21.00
		100	0	**20.73**	20.30	20.44	21.00
	16QAM	1	0	20.44	20.63	20.53	21.00

		1	50	20.75	20.89	20.76	21.00
		1	99	20.60	20.64	20.65	21.00
		50	0	20.34	20.18	20.49	21.00
		50	25	20.49	20.21	20.36	21.00
		50	50	20.48	20.37	20.43	21.00
		100	0	20.41	20.27	20.36	21.00

LTE FDD Band 7 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.17	22.12	21.95	22.80
		1	13	22.32	22.15	22.09	22.80
		1	24	22.17	21.96	22.01	22.80
		12	0	21.36	21.40	21.53	22.80
		12	6	21.75	21.59	21.53	22.80
		12	13	21.99	21.54	21.49	22.80
		25	0	21.71	21.90	21.55	22.80
	16QAM	1	0	22.03	21.77	21.61	22.80
		1	13	22.01	22.04	21.76	22.80
		1	24	21.75	22.03	21.40	22.80
		12	0	20.84	20.89	20.86	22.80
		12	6	20.56	20.73	20.57	22.50
		12	13	20.79	20.99	20.70	22.50
		25	0	20.66	20.70	20.70	22.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.19	22.13	21.98	22.80
		1	25	22.35	22.20	22.13	22.80
		1	49	22.19	22.00	22.04	22.80
		25	0	21.39	21.45	21.57	22.80
		25	13	21.78	21.64	21.57	22.80
		25	25	22.01	21.58	21.54	22.80
		50	0	21.75	21.92	21.59	22.80
	16QAM	1	0	22.05	21.80	21.63	22.80
		1	25	22.04	22.08	21.79	22.80
		1	49	21.78	22.05	21.43	22.80
		25	0	20.87	20.94	20.90	22.80
		25	13	20.58	20.77	20.60	22.50
		25	25	20.82	21.04	20.74	22.50
		50	0	20.69	20.75	20.74	22.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	

15MHz	QPSK	1	0	22.19	22.09	21.96	22.80
		1	38	22.33	22.19	22.10	22.80
		1	74	22.16	21.95	22.00	22.80
		36	0	21.37	21.41	21.54	22.80
		36	18	21.75	21.59	21.53	22.80
		36	39	21.98	21.55	21.50	22.80
		75	0	21.73	21.88	21.54	22.80
	16QAM	1	0	22.00	21.78	21.61	22.80
		1	38	22.02	22.05	21.77	22.80
		1	74	21.75	22.01	21.40	22.80
		36	0	20.84	20.92	20.87	22.80
		36	18	20.55	20.72	20.56	22.50
		36	39	20.80	21.00	20.71	22.50
		75	0	20.66	20.70	20.70	22.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	22.15	22.05	21.93	22.80
		1	50	**22.32**	**22.15**	**22.08**	22.80
		1	99	22.14	21.94	21.97	22.80
		50	0	21.34	21.36	**21.50**	22.80
		50	25	21.73	**21.55**	**21.50**	22.80
		50	50	**21.95**	21.50	21.46	22.80
		100	0	21.70	**21.83**	21.50	22.80
	16QAM	1	0	21.91	21.74	21.56	22.80
		1	50	21.98	22.03	21.73	22.80
		1	99	21.73	21.98	21.38	22.80
		50	0	20.81	20.88	20.84	22.80
		50	25	20.52	20.70	20.53	22.50
		50	50	20.77	20.95	20.67	22.50
		100	0	20.64	20.66	20.67	22.50

LTE FDD Band 7 Hotspot				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.98	20.16	20.10	21.00
		1	13	20.28	20.34	20.26	21.00
		1	24	20.48	20.61	20.17	21.00
		12	0	20.20	20.29	20.10	21.00
		12	6	20.20	20.30	20.22	21.00
		12	13	20.38	20.42	20.26	21.00
		25	0	20.18	20.26	20.17	21.00
	16QAM	1	0	20.37	20.16	20.05	21.00

		1	13	20.35	19.94	19.89	21.00
		1	24	20.35	20.51	20.19	21.00
		12	0	20.11	20.13	20.05	21.00
		12	6	20.14	20.23	20.13	21.00
		12	13	20.29	20.33	20.19	21.00
		25	0	20.16	20.25	20.11	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.00	20.17	20.13	21.00
		1	25	20.31	20.39	20.30	21.00
		1	49	20.50	20.65	20.20	21.00
		25	0	20.23	20.34	20.14	21.00
		25	13	20.23	20.35	20.26	21.00
		25	25	20.40	20.46	20.31	21.00
		50	0	20.22	20.28	20.21	21.00
	16QAM	1	0	20.39	20.19	20.07	21.00
		1	25	20.38	19.98	19.92	21.00
		1	49	20.38	20.53	20.22	21.00
		25	0	20.14	20.18	20.09	21.00
		25	13	20.16	20.27	20.16	21.00
		25	25	20.32	20.38	20.23	21.00
		50	0	20.19	20.30	20.15	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.99	20.13	20.11	21.00
		1	38	20.29	20.38	20.27	21.00
		1	74	20.47	20.60	20.16	21.00
		36	0	20.21	20.30	20.11	21.00
		36	18	20.20	20.30	20.22	21.00
		36	39	20.37	20.43	20.27	21.00
		75	0	20.20	20.24	20.16	21.00
	16QAM	1	0	20.34	20.17	20.05	21.00
		1	38	20.36	19.95	19.90	21.00
		1	74	20.35	20.49	20.19	21.00
		36	0	20.11	20.16	20.06	21.00
		36	18	20.13	20.22	20.12	21.00
		36	39	20.30	20.34	20.20	21.00
		75	0	20.16	20.25	20.11	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.96	20.09	20.08	21.00
		1	50	20.28	20.34	**20.25**	21.00
		1	99	**20.45**	**20.59**	20.13	21.00

		50	0	20.18	20.25	20.07	21.00
		50	25	20.18	20.26	20.19	21.00
		50	50	**20.34**	**20.38**	**20.23**	21.00
		100	0	20.17	**20.19**	20.12	21.00
	16QAM	1	0	20.19	20.13	20.00	21.00
		1	50	20.32	19.93	19.86	21.00
		1	99	20.33	20.46	20.17	21.00
		50	0	20.08	20.12	20.03	21.00
		50	25	20.10	20.20	20.09	21.00
		50	50	20.27	20.29	20.16	21.00
		100	0	20.14	20.21	20.08	21.00

LTE FDD Band 13 Body SAR& Hotspot& Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	23.59	23.54	23.67	25.00
		1	13	23.49	23.47	23.55	25.00
		1	24	23.35	23.29	23.41	25.00
		12	0	22.37	22.32	22.42	24.00
		12	6	22.51	22.47	22.59	24.00
		12	13	22.54	22.48	22.61	24.00
		25	0	22.51	22.50	22.59	24.00
	16QAM	1	0	22.84	22.60	22.92	24.00
		1	13	22.82	22.76	22.88	24.00
		1	24	22.29	22.24	22.35	24.00
		12	0	21.41	21.36	21.46	23.00
		12	6	21.61	21.54	21.69	23.00
		12	13	21.51	21.46	21.58	23.00
		25	0	21.52	21.48	21.60	23.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				/	23230/782	/	
10MHz	QPSK	1	0	/	**23.47**	/	25.00
		1	25	/	23.44	/	25.00
		1	49	/	23.22	/	25.00
		25	0	/	22.27	/	24.00
		25	13	/	22.38	/	24.00
		25	25	/	**22.39**	/	24.00
		50	0	/	**22.42**	/	24.00
	16QAM	1	0	/	22.53	/	24.00
		1	25	/	22.73	/	24.00
		1	49	/	22.17	/	24.00
		25	0	/	21.31	/	23.00

		25	13	/	21.46	/	23.00
		25	25	/	21.37	/	23.00
		50	0	/	21.40	/	23.00

LTE FDD Band 26 Body SAR& Hotspot& Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	24.39	24.30	24.11	25.30
		1	2	24.39	24.38	24.30	25.30
		1	5	24.16	24.38	24.18	25.30
		3	0	24.42	24.58	24.36	25.30
		3	2	24.25	24.32	24.27	25.30
		3	3	24.21	24.25	24.33	25.30
		6	0	23.27	23.36	23.64	24.30
	16QAM	1	0	23.79	23.53	23.93	24.30
		1	2	23.77	23.72	23.82	24.30
		1	5	23.49	23.41	23.33	24.30
		3	0	23.25	23.15	23.39	24.30
		3	2	23.22	23.24	23.45	24.30
		3	3	23.25	23.22	23.38	24.30
		6	0	22.21	22.29	22.59	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	24.34	24.22	24.06	25.30
		1	7	24.32	24.33	24.27	25.30
		1	14	24.10	24.34	24.11	25.30
		8	0	23.44	23.56	23.38	24.30
		8	4	23.31	23.30	23.28	24.30
		8	7	23.22	23.25	23.32	24.30
		15	0	23.23	23.27	23.56	24.30
	16QAM	1	0	23.55	23.49	23.86	24.30
		1	7	23.71	23.69	23.77	24.30
		1	14	23.47	23.36	23.27	24.30
		8	0	22.28	22.18	22.46	23.30
		8	4	22.24	22.25	22.46	23.30
		8	7	22.27	22.20	22.40	23.30
		15	0	22.17	22.20	22.50	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	24.36	24.25	24.08	25.30
		1	13	24.35	24.37	24.30	25.30
		1	24	24.13	24.36	24.14	25.30

		12	0	23.47	23.61	23.42	24.30
		12	6	23.33	23.34	23.31	24.30
		12	13	23.25	23.30	23.36	24.30
		25	0	23.26	23.32	23.60	24.30
	16QAM	1	0	23.57	23.48	23.88	24.30
		1	13	23.74	23.69	23.80	24.30
		1	24	23.46	23.38	23.30	24.30
		12	0	22.31	22.23	22.46	23.30
		12	6	22.26	22.29	22.49	23.30
		12	13	22.30	22.25	22.44	23.30
		25	0	22.20	22.25	22.54	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26750/820	26865/831.5	26990/844	
10MHz	QPSK	1	0	24.31	24.23	24.06	25.30
		1	25	24.33	24.34	24.28	25.30
		1	49	24.10	24.32	24.11	25.30
		25	0	23.44	23.59	23.39	24.30
		25	13	23.30	23.29	23.27	24.30
		25	25	23.23	23.26	23.33	24.30
		50	0	23.23	23.27	23.56	24.30
	16QAM	1	0	23.52	23.46	23.86	24.30
		1	25	23.72	23.66	23.78	24.30
		1	49	23.47	23.37	23.31	24.30
		25	0	22.30	22.25	22.47	23.30
		25	13	22.24	22.26	22.48	23.30
		25	25	22.28	22.21	22.41	23.30
		50	0	22.17	22.20	22.50	23.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26775/822.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	24.24	24.19	24.01	25.30
		1	38	**24.29**	**24.32**	**24.24**	25.30
		1	74	24.08	24.29	24.09	25.30
		36	0	**23.41**	**23.55**	**23.36**	24.30
		36	18	23.27	23.27	23.24	24.30
		36	39	23.20	23.21	23.29	24.30
		75	0	23.21	23.23	**23.53**	24.30
	16QAM	1	0	23.50	23.42	23.81	24.30
		1	38	23.68	23.64	23.74	24.30
		1	74	23.41	23.31	23.25	24.30
		36	0	22.25	22.17	22.40	23.30
		36	18	22.20	22.22	22.42	23.30
		36	39	22.25	22.16	22.37	23.30
		75	0	22.15	22.16	22.47	23.30

LTE TDD Band 38 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	23.21	23.08	23.08	24.50
		1	13	23.30	23.01	23.28	24.50
		1	24	23.05	22.98	23.08	24.50
		12	0	22.35	22.13	22.17	23.90
		12	6	22.29	22.15	22.24	23.90
		12	13	22.27	22.10	22.12	23.90
		25	0	22.25	22.15	22.13	23.90
	16QAM	1	0	22.50	22.35	22.28	23.90
		1	13	22.48	22.38	22.41	23.90
		1	24	22.29	22.07	22.20	23.90
		12	0	21.37	21.19	21.20	22.90
		12	6	21.41	21.21	21.28	22.90
		12	13	21.26	21.16	21.18	22.90
		25	0	21.33	21.18	21.15	22.90
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	23.23	23.09	23.11	24.50
		1	25	23.33	23.06	23.32	24.50
		1	49	23.07	23.02	23.11	24.50
		25	0	22.38	22.18	22.21	23.90
		25	13	22.32	22.20	22.28	23.90
		25	25	22.29	22.14	22.17	23.90
		50	0	22.29	22.17	22.17	23.90
	16QAM	1	0	22.52	22.38	22.30	23.90
		1	25	22.51	22.42	22.44	23.90
		1	49	22.32	22.09	22.23	23.90
		25	0	21.40	21.24	21.24	22.90
		25	13	21.43	21.25	21.31	22.90
		25	25	21.29	21.21	21.22	22.90
		50	0	21.36	21.23	21.19	22.90
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	23.22	23.05	23.09	24.50
		1	38	23.31	23.05	23.29	24.50
		1	74	23.04	22.97	23.07	24.50
		36	0	22.36	22.14	22.18	23.90
		36	18	22.29	22.15	22.24	23.90
		36	39	22.26	22.11	22.13	23.90

		75	0	22.27	22.13	22.12	23.90
	16QAM	1	0	22.47	22.36	22.28	23.90
		1	38	22.49	22.39	22.42	23.90
		1	74	22.29	22.05	22.20	23.90
		36	0	21.37	21.22	21.21	22.90
		36	18	21.40	21.20	21.27	22.90
		36	39	21.27	21.17	21.19	22.90
		75	0	21.33	21.18	21.15	22.90

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	23.19	**23.01**	23.06	24.50
		1	50	**23.30**	**23.01**	**23.27**	24.50
		1	99	23.02	22.96	23.04	24.50
		50	0	**22.33**	22.09	22.14	23.90
		50	25	22.27	**22.11**	**22.21**	23.90
		50	50	22.23	22.06	22.09	23.90
		100	0	**22.24**	22.08	22.08	23.90
	16QAM	1	0	22.41	22.32	22.23	23.90
		1	50	22.45	22.37	22.38	23.90
		1	99	22.27	22.02	22.18	23.90
		50	0	21.34	21.18	21.18	22.90
		50	25	21.37	21.18	21.24	22.90
		50	50	21.24	21.12	21.15	22.90
		100	0	21.31	21.14	21.12	22.90

LTE TDD Band 38 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	22.09	22.04	21.94	22.90
		1	13	22.08	22.08	21.96	22.90
		1	24	21.78	21.80	21.82	22.90
		12	0	22.17	21.96	22.01	22.90
		12	6	22.17	21.87	21.94	22.90
		12	13	22.02	22.00	21.87	22.90
		25	0	22.10	21.96	21.94	22.90
	16QAM	1	0	22.68	22.15	22.33	22.90
		1	13	22.36	22.11	22.24	22.90
		1	24	22.12	21.96	22.05	22.90
		12	0	21.36	21.04	21.06	22.90
		12	6	21.19	21.04	20.99	22.90
		12	13	21.07	21.06	20.99	22.90
		25	0	21.20	21.03	20.99	22.90

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.04	22.02	21.92	22.90
		1	25	22.06	22.05	21.94	22.90
		1	49	21.75	21.76	21.79	22.90
		25	0	22.14	21.94	21.98	22.90
		25	13	22.14	21.82	21.90	22.90
		25	25	22.00	21.96	21.84	22.90
		50	0	22.07	21.91	21.90	22.90
	16QAM	1	0	22.63	22.13	22.31	22.90
		1	25	22.34	22.08	22.22	22.90
		1	49	22.13	21.95	22.06	22.90
		25	0	21.35	21.06	21.07	22.90
		25	13	21.17	21.01	20.98	22.90
		25	25	21.05	21.02	20.96	22.90
		50	0	21.17	20.98	20.95	22.90
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.07	22.01	21.92	22.90
		1	38	22.05	22.04	21.93	22.90
		1	74	21.75	21.78	21.79	22.90
		36	0	22.14	21.91	21.97	22.90
		36	18	22.15	21.83	21.91	22.90
		36	39	21.99	21.95	21.83	22.90
		75	0	22.07	21.91	21.90	22.90
	16QAM	1	0	22.66	22.16	22.31	22.90
		1	38	22.33	22.11	22.21	22.90
		1	74	22.13	21.94	22.02	22.90
		36	0	21.33	20.99	21.06	22.90
		36	18	21.17	21.00	20.96	22.90
		36	39	21.04	21.01	20.95	22.90
		75	0	21.17	20.98	20.95	22.90
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	21.84	21.98	21.87	22.90
		1	50	**22.02**	**22.03**	**21.90**	22.90
		1	99	21.73	21.73	21.77	22.90
		50	0	**22.11**	21.90	**21.95**	22.90
		50	25	22.10	21.80	21.87	22.90
		50	50	21.97	**21.91**	21.80	22.90
		100	0	**22.05**	21.87	21.87	22.90
	16QAM	1	0	22.61	22.09	22.26	22.90
		1	50	22.30	22.06	22.18	22.90

		1	99	22.07	21.89	22.00	22.90
		50	0	21.30	20.98	21.00	22.90
		50	25	21.13	20.97	20.92	22.90
		50	50	21.02	20.97	20.92	22.90
		100	0	21.15	20.94	20.92	22.90

LTE FDD Band 66 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.07	22.56	22.54	23.40
		1	2	23.11	22.66	22.89	23.40
		1	5	22.37	22.30	22.22	23.40
		3	0	23.11	23.12	23.13	23.40
		3	2	23.00	23.10	23.04	23.40
		3	3	23.02	22.92	23.05	23.40
		6	0	22.07	22.09	22.32	23.20
	16QAM	1	0	22.39	22.13	22.44	23.20
		1	2	22.37	22.32	22.42	23.20
		1	5	22.11	22.03	21.90	23.20
		3	0	22.29	21.93	22.03	23.20
		3	2	22.10	22.14	22.21	23.20
		3	3	21.97	22.04	22.02	23.20
		6	0	21.06	21.03	21.14	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.04	22.51	22.51	23.40
		1	7	23.07	22.65	22.89	23.40
		1	14	22.34	22.28	22.18	23.40
		8	0	22.16	22.15	22.19	23.20
		8	4	22.08	22.12	22.08	23.20
		8	7	22.06	21.97	22.08	23.20
		15	0	22.06	22.05	22.28	23.20
	16QAM	1	0	22.36	22.08	22.39	23.20
		1	7	22.34	22.29	22.40	23.20
		1	14	22.08	22.00	21.87	23.20
		8	0	21.35	21.01	21.10	22.20
		8	4	21.14	21.19	21.25	22.20
		8	7	21.02	21.07	21.08	22.20
		15	0	21.05	20.99	21.09	22.20

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.01	22.49	22.47	23.40
		1	13	23.05	22.61	22.86	23.40
		1	24	22.31	22.23	22.14	23.40
		12	0	22.13	22.10	22.15	23.20
		12	6	22.06	22.08	22.03	23.20
		12	13	22.04	21.95	22.04	23.20
		25	0	22.06	22.04	22.26	23.20
	16QAM	1	0	22.33	22.04	22.36	23.20
		1	13	22.31	22.27	22.37	23.20
		1	24	22.05	21.98	21.83	23.20
		12	0	21.33	20.97	21.07	22.20
		12	6	21.11	21.14	21.21	22.20
		12	13	20.99	21.02	21.04	22.20
		25	0	21.03	20.95	21.04	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.03	22.50	22.50	23.40
		1	25	23.08	22.66	22.90	23.40
		1	49	22.33	22.27	22.17	23.40
		25	0	22.16	22.15	22.19	23.20
		25	13	22.09	22.13	22.07	23.20
		25	25	22.06	21.99	22.09	23.20
		50	0	22.10	22.06	22.30	23.20
	16QAM	1	0	22.35	22.07	22.38	23.20
		1	25	22.34	22.31	22.40	23.20
		1	49	22.08	22.00	21.86	23.20
		25	0	21.36	21.02	21.11	22.20
		25	13	21.13	21.18	21.24	22.20
		25	25	21.02	21.07	21.08	22.20
		50	0	21.06	21.00	21.08	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.02	22.46	22.48	23.40
		1	38	23.06	22.65	22.87	23.40
		1	74	22.30	22.22	22.13	23.40
		36	0	22.14	22.11	22.16	23.20
		36	18	22.06	22.08	22.03	23.20
		36	39	22.03	21.96	22.05	23.20

		75	0	22.08	22.02	22.25	23.20
	16QAM	1	0	22.30	22.05	22.36	23.20
		1	38	22.32	22.28	22.38	23.20
		1	74	22.05	21.96	21.83	23.20
		36	0	21.33	21.00	21.08	22.20
		36	18	21.10	21.13	21.20	22.20
		36	39	21.00	21.03	21.05	22.20
		75	0	21.03	20.95	21.04	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.99	22.42	22.45	23.40
		1	50	**23.05**	**22.61**	**22.85**	23.40
		1	99	22.28	22.21	22.10	23.40
		50	0	**22.11**	**22.06**	**22.12**	23.20
		50	25	22.04	22.04	22.00	23.20
		50	50	22.00	21.91	22.01	23.20
		100	0	22.05	21.97	**22.21**	23.20
	16QAM	1	0	22.30	22.01	22.31	23.20
		1	50	22.28	22.26	22.34	23.20
		1	99	22.03	21.93	21.81	23.20
		50	0	21.30	20.96	21.05	22.20
		50	25	21.07	21.11	21.17	22.20
		50	50	20.97	20.98	21.01	22.20
		100	0	21.01	20.91	21.01	22.20

LTE FDD Band 66 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.58	23.32	23.39	24.20
		1	2	23.60	23.33	23.29	24.20
		1	5	22.80	22.66	22.60	24.20
		3	0	23.48	23.18	23.28	24.20
		3	2	23.44	23.33	23.31	24.20
		3	3	23.14	22.90	23.20	24.20
		6	0	22.45	22.22	22.56	23.20
	16QAM	1	0	22.75	22.94	23.04	23.20
		1	2	22.73	22.78	22.83	23.20
		1	5	21.88	21.99	21.97	23.20
		3	0	22.38	22.32	22.25	23.20
		3	2	22.41	22.47	22.40	23.20
		3	3	22.18	22.08	22.01	23.20

		6	0	21.27	21.39	21.36	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.60	23.36	23.42	24.20
		1	7	23.58	23.36	23.33	24.20
		1	14	22.83	22.71	22.64	24.20
		8	0	22.58	22.30	22.41	23.20
		8	4	22.56	22.43	22.43	23.20
		8	7	22.24	22.01	22.30	23.20
		15	0	22.45	22.26	22.59	23.20
	16QAM	1	0	22.78	22.96	23.07	23.20
		1	7	22.76	22.78	22.87	23.20
		1	14	21.90	22.03	22.00	23.20
		8	0	21.49	21.45	21.37	22.20
		8	4	21.52	21.60	21.52	22.20
		8	7	21.28	21.20	21.14	22.20
		15	0	21.30	21.43	21.39	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.57	23.34	23.38	24.20
		1	13	23.56	23.32	23.30	24.20
		1	24	22.80	22.66	22.60	24.20
		12	0	22.55	22.25	22.37	23.20
		12	6	22.54	22.39	22.38	23.20
		12	13	22.22	21.99	22.26	23.20
		25	0	22.45	22.25	22.57	23.20
	16QAM	1	0	22.75	22.92	23.04	23.20
		1	13	22.73	22.76	22.84	23.20
		1	24	21.87	22.01	21.96	23.20
		12	0	21.47	21.41	21.34	22.20
		12	6	21.49	21.55	21.48	22.20
		12	13	21.25	21.15	21.10	22.20
		25	0	21.28	21.39	21.34	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.59	23.35	23.41	24.20
		1	25	23.59	23.37	23.34	24.20
		1	49	22.82	22.70	22.63	24.20
		25	0	22.58	22.30	22.41	23.20
		25	13	22.57	22.44	22.42	23.20

		25	25	22.24	22.03	22.31	23.20
		50	0	22.49	22.27	22.61	23.20
	16QAM	1	0	22.77	22.95	23.06	23.20
		1	25	22.76	22.80	22.87	23.20
		1	49	21.90	22.03	21.99	23.20
		25	0	21.50	21.46	21.38	22.20
		25	13	21.51	21.59	21.51	22.20
		25	25	21.28	21.20	21.14	22.20
		50	0	21.31	21.44	21.38	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.58	23.31	23.39	24.20
		1	38	23.57	23.36	23.31	24.20
		1	74	22.79	22.65	22.59	24.20
		36	0	22.56	22.26	22.38	23.20
		36	18	22.54	22.39	22.38	23.20
		36	39	22.21	22.00	22.27	23.20
		75	0	22.47	22.23	22.56	23.20
	16QAM	1	0	22.72	22.93	23.04	23.20
		1	38	22.74	22.77	22.85	23.20
		1	74	21.87	21.99	21.96	23.20
		36	0	21.47	21.44	21.35	22.20
		36	18	21.48	21.54	21.47	22.20
		36	39	21.26	21.16	21.11	22.20
		75	0	21.28	21.39	21.34	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.55	23.27	**23.36**	24.20
		1	50	**23.56**	**23.32**	23.29	24.20
		1	99	22.77	22.64	22.56	24.20
		50	0	**22.53**	22.21	22.34	23.20
		50	25	22.52	**22.35**	**22.55**	23.20
		50	50	22.18	21.95	22.23	23.20
		100	0	22.44	22.18	**22.52**	23.20
	16QAM	1	0	22.76	22.89	22.99	23.20
		1	50	22.70	22.75	22.81	23.20
		1	99	21.85	21.96	21.94	23.20
		50	0	21.44	21.40	21.32	22.20
		50	25	21.45	21.52	21.44	22.20
		50	50	21.23	21.11	21.07	22.20
		100	0	21.26	21.35	21.31	22.20

LTE FDD Band 66 Hotspot				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.89	21.90	21.76	22.70
		1	2	21.83	21.83	21.91	22.70
		1	5	21.44	21.39	21.20	22.70
		3	0	21.98	21.95	21.85	22.70
		3	2	21.80	21.77	21.95	22.70
		3	3	21.74	21.62	21.84	22.70
		6	0	21.81	21.82	22.03	22.70
	16QAM	1	0	22.36	22.35	22.50	23.10
		1	2	22.38	22.19	22.44	23.10
		1	5	22.10	21.81	21.89	23.10
		3	0	22.38	22.30	22.13	23.10
		3	2	22.17	22.25	22.28	23.10
		3	3	22.05	22.19	22.12	23.10
		6	0	21.07	21.23	21.12	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.86	21.86	21.73	22.70
		1	7	21.82	21.79	21.89	22.70
		1	14	21.42	21.38	21.17	22.70
		8	0	21.95	21.90	21.81	22.70
		8	4	21.78	21.73	21.92	22.70
		8	7	21.71	21.57	21.80	22.70
		15	0	21.78	21.77	21.99	22.70
	16QAM	1	0	22.36	22.31	22.45	23.10
		1	7	22.34	22.17	22.40	23.10
		1	14	22.08	21.78	21.87	23.10
		8	0	21.35	21.26	21.10	22.20
		8	4	21.14	21.23	21.25	22.20
		8	7	21.02	21.14	21.08	22.20
		15	0	21.05	21.19	21.09	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.83	21.84	21.69	22.70
		1	13	21.80	21.75	21.86	22.70
		1	24	21.39	21.33	21.13	22.70
		12	0	21.92	21.85	21.77	22.70

		12	6	21.76	21.69	21.87	22.70
		12	13	21.69	21.55	21.76	22.70
		25	0	21.78	21.76	21.97	22.70
	16QAM	1	0	22.33	22.27	22.42	23.10
		1	13	22.31	22.15	22.37	23.10
		1	24	22.05	21.76	21.83	23.10
		12	0	21.33	21.22	21.07	22.20
		12	6	21.11	21.18	21.21	22.20
		12	13	20.99	21.09	21.04	22.20
		25	0	21.03	21.15	21.04	22.20

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.85	21.85	21.72	22.70
		1	25	21.83	21.80	21.90	22.70
		1	49	21.41	21.37	21.16	22.70
		25	0	21.95	21.90	21.81	22.70
		25	13	21.79	21.74	21.91	22.70
		25	25	21.71	21.59	21.81	22.70
		50	0	21.82	21.78	22.01	22.70
	16QAM	1	0	22.35	22.30	22.44	23.10
		1	25	22.34	22.19	22.40	23.10
		1	49	22.08	21.78	21.86	23.10
		25	0	21.36	21.27	21.11	22.20
		25	13	21.13	21.22	21.24	22.20
		25	25	21.02	21.14	21.08	22.20
		50	0	21.06	21.20	21.08	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.84	21.81	21.70	22.70
		1	38	21.81	21.79	21.87	22.70
		1	74	21.38	21.32	21.12	22.70
		36	0	21.93	21.86	21.78	22.70
		36	18	21.76	21.69	21.87	22.70
		36	39	21.68	21.56	21.77	22.70
		75	0	21.80	21.74	21.96	22.70
	16QAM	1	0	22.30	22.28	22.42	23.10
		1	38	22.32	22.16	22.38	23.10
		1	74	22.05	21.74	21.83	23.10
		36	0	21.33	21.25	21.08	22.20
		36	18	21.10	21.17	21.20	22.20

		36	39	21.00	21.10	21.05	22.20
		75	0	21.03	21.15	21.04	22.20
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	**21.81**	**21.77**	21.67	22.70
		1	50	21.80	21.75	**21.85**	22.70
		1	99	21.36	21.31	21.09	22.70
		50	0	**21.90**	**21.81**	21.74	22.70
		50	25	21.74	21.65	**21.84**	22.70
		50	50	21.65	21.51	21.73	22.70
		100	0	21.77	21.69	**21.92**	22.70
	16QAM	1	0	22.30	22.24	22.37	23.10
		1	50	22.28	22.14	22.34	23.10
		1	99	22.03	21.71	21.81	23.10
		50	0	21.30	21.21	21.05	22.20
		50	25	21.07	21.15	21.17	22.20
		50	50	20.97	21.05	21.01	22.20
		100	0	21.01	21.11	21.01	22.20

Variant

LTE Band 2- Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.22	23.29	23.06	23.80
		1	2	22.71	22.81	22.49	23.80
		1	5	22.62	22.66	22.44	23.80
		3	0	23.52	23.40	23.52	23.80
		3	2	23.50	23.63	23.29	23.80
		3	3	23.57	23.61	23.39	23.80
		6	0	22.63	23.05	23.09	23.40
	16QAM	1	0	22.89	22.85	22.95	23.40
		1	2	22.79	22.75	22.81	23.40
		1	5	22.55	22.49	22.59	23.40
		3	0	23.21	23.14	23.23	23.40
		3	2	22.70	22.61	22.73	23.40
		3	3	22.73	22.68	22.75	23.40
		6	0	22.17	22.12	22.26	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.24	23.33	23.09	23.80
		1	7	22.69	22.84	22.53	23.80
		1	14	22.65	22.71	22.48	23.80
		8	0	23.26	23.26	23.25	23.40
		8	4	22.62	22.73	22.41	23.40
		8	7	22.67	22.72	22.49	23.40
		15	0	22.63	23.09	23.12	23.40
	16QAM	1	0	22.89	22.87	22.98	23.40
		1	7	22.79	22.75	22.85	23.40
		1	14	22.57	22.53	22.62	23.40
		8	0	22.32	22.27	22.35	22.40
		8	4	21.81	21.74	21.85	22.40
		8	7	21.83	21.80	21.88	22.40
		15	0	22.20	22.16	22.29	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.21	23.31	23.05	23.80
		1	13	22.67	22.80	22.50	23.80
		1	24	22.62	22.66	22.44	23.80
		12	0	23.23	23.21	23.21	23.40
		12	6	22.60	22.69	22.36	23.40
		12	13	22.65	22.70	22.45	23.40
		25	0	22.63	23.08	23.10	23.40

	16QAM	1	0	22.89	22.83	22.95	23.40
		1	13	22.79	22.73	22.82	23.40
		1	24	22.54	22.51	22.58	23.40
		12	0	22.30	22.23	22.32	22.40
		12	6	21.78	21.69	21.81	22.40
		12	13	21.80	21.75	21.84	22.40
		25	0	22.18	22.12	22.24	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	23.23	23.32	23.08	23.80
		1	25	22.70	22.85	22.54	23.80
		1	49	22.64	22.70	22.47	23.80
		25	0	23.26	23.26	23.25	23.40
		25	13	22.63	22.74	22.40	23.40
		25	25	22.67	22.74	22.50	23.40
		50	0	22.67	23.10	23.14	23.40
	16QAM	1	0	22.93	22.86	22.97	23.40
		1	25	22.83	22.77	22.85	23.40
		1	49	22.57	22.53	22.61	23.40
		25	0	22.33	22.28	22.36	22.40
		25	13	21.80	21.73	21.84	22.40
		25	25	21.83	21.80	21.88	22.40
		50	0	22.21	22.17	22.28	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.22	23.28	23.06	23.80
		1	38	22.68	22.84	22.51	23.80
		1	74	22.61	22.65	22.43	23.80
		36	0	23.24	23.22	23.22	23.40
		36	18	22.60	22.69	22.36	23.40
		36	39	22.64	22.71	22.46	23.40
		75	0	22.65	23.06	23.09	23.40
	16QAM	1	0	22.91	22.84	22.95	23.40
		1	38	22.81	22.74	22.83	23.40
		1	74	22.55	22.49	22.58	23.40
		36	0	22.30	22.26	22.33	22.40
		36	18	21.77	21.68	21.80	22.40
		36	39	21.81	21.76	21.85	22.40
		75	0	22.18	22.12	22.24	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	**23.19**	**23.24**	**23.03**	23.80
		1	50	22.67	22.80	22.49	23.80

		1	99	22.59	22.64	22.40	23.80
		50	0	**23.21**	**23.17**	**23.18**	23.40
		50	25	22.58	22.65	22.33	23.40
		50	50	22.61	22.66	22.42	23.40
		100	0	22.62	23.01	**23.05**	23.40
	16QAM	1	0	22.88	22.80	22.90	23.40
		1	50	22.78	22.72	22.79	23.40
		1	99	22.52	22.46	22.56	23.40
		50	0	22.27	22.22	22.30	22.40
		50	25	21.74	21.66	21.77	22.40
		50	50	21.78	21.71	21.81	22.40
		100	0	22.16	22.08	22.21	22.40

LTE Band7-Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	18.74	18.93	18.70	20.50
		1	13	18.71	18.96	18.65	20.50
		1	24	18.99	18.68	19.19	20.50
		12	0	18.91	19.04	18.54	20.50
		12	6	18.88	19.06	18.65	20.50
		12	13	18.62	19.01	18.93	20.50
		25	0	18.71	18.75	18.80	20.50
	16QAM	1	0	18.90	18.79	18.85	20.50
		1	13	18.83	18.76	18.80	20.50
		1	24	19.37	19.17	19.24	20.50
		12	0	18.74	18.78	18.65	20.50
		12	6	18.93	18.71	18.82	20.50
		12	13	19.00	18.82	18.90	20.50
		25	0	18.96	18.79	18.86	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	18.76	18.94	18.73	20.50
		1	25	18.74	19.01	18.69	20.50
		1	49	19.01	18.64	19.22	20.50
		25	0	18.94	19.09	18.58	20.50
		25	13	18.91	19.11	18.69	20.50
		25	25	18.64	19.05	18.98	20.50
		50	0	18.75	18.77	18.84	20.50
	16QAM	1	0	18.94	18.82	18.87	20.50
		1	25	18.87	18.80	18.83	20.50
		1	49	19.40	19.19	19.27	20.50
		25	0	18.77	18.83	18.69	20.50

		25	13	18.95	18.75	18.85	20.50
		25	25	19.03	18.87	18.94	20.50
		50	0	18.99	18.84	18.90	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	18.75	18.90	18.71	20.50
		1	38	18.72	19.00	18.66	20.50
		1	74	18.98	18.62	19.18	20.50
		36	0	18.92	19.05	18.55	20.50
		36	18	18.88	19.06	18.65	20.50
		36	39	18.61	19.02	18.94	20.50
		75	0	18.73	18.73	18.79	20.50
	16QAM	1	0	18.92	18.80	18.85	20.50
		1	38	18.85	18.77	18.81	20.50
		1	74	19.38	19.15	19.24	20.50
		36	0	18.74	18.81	18.66	20.50
		36	18	18.92	18.70	18.81	20.50
		36	39	19.01	18.83	18.91	20.50
		75	0	18.96	18.79	18.86	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	18.72	18.86	18.68	20.50
		1	50	18.71	**18.96**	18.64	20.50
		1	99	**18.96**	18.60	**19.15**	20.50
		50	0	**19.03**	19.00	18.51	20.50
		50	25	18.86	**19.02**	18.62	20.50
		50	50	18.58	18.97	**18.90**	20.50
		100	0	18.70	18.68	**18.75**	20.50
	16QAM	1	0	18.89	18.76	18.80	20.50
		1	50	18.82	18.75	18.77	20.50
		1	99	19.35	19.12	19.22	20.50
		50	0	18.71	18.77	18.63	20.50
		50	25	18.89	18.68	18.78	20.50
		50	50	18.98	18.78	18.87	20.50
		100	0	18.94	18.75	18.83	20.50

LTE Band7-Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.21	21.45	20.96	22.00
		1	13	21.29	21.15	21.06	22.00
		1	24	21.68	21.53	21.53	22.00
		12	0	21.02	21.04	21.03	22.00

		12	6	21.05	21.13	20.95	22.00
		12	13	21.35	21.27	21.18	22.00
		25	0	21.11	21.15	21.15	22.00
	16QAM	1	0	21.42	21.29	21.37	22.00
		1	13	21.38	21.27	21.33	22.00
		1	24	21.34	21.40	21.32	22.00
		12	0	21.21	21.01	21.06	22.00
		12	6	21.38	21.20	21.26	22.00
		12	13	21.41	21.30	21.34	22.00
		25	0	21.21	21.14	21.13	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.18	21.41	20.93	22.00
		1	25	21.28	21.11	21.04	22.00
		1	49	21.66	21.52	21.50	22.00
		25	0	20.99	20.99	20.99	22.00
		25	13	21.03	21.09	20.92	22.00
		25	25	21.32	21.22	21.14	22.00
		50	0	21.08	21.10	21.11	22.00
	16QAM	1	0	21.39	21.25	21.32	22.00
		1	25	21.35	21.25	21.29	22.00
		1	49	21.31	21.37	21.30	22.00
		25	0	21.18	20.97	21.03	22.00
		25	13	21.35	21.18	21.23	22.00
		25	25	21.38	21.25	21.30	22.00
		50	0	21.19	21.10	21.10	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.19	21.38	20.94	22.00
		1	38	21.29	21.15	21.05	22.00
		1	74	21.65	21.51	21.49	22.00
		36	0	21.00	21.00	21.00	22.00
		36	18	21.03	21.09	20.92	22.00
		36	39	21.31	21.23	21.15	22.00
		75	0	21.10	21.08	21.10	22.00
	16QAM	1	0	21.41	21.26	21.32	22.00
		1	38	21.37	21.26	21.30	22.00
		1	74	21.32	21.35	21.30	22.00
		36	0	21.18	21.00	21.04	22.00
		36	18	21.34	21.17	21.22	22.00
		36	39	21.39	21.26	21.31	22.00
		75	0	21.19	21.10	21.10	22.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.16	21.34	20.91	22.00
		1	50	21.28	21.11	21.03	22.00
		1	99	**21.63**	**21.50**	**21.46**	22.00
		50	0	20.97	20.95	20.96	22.00
		50	25	21.01	21.05	20.89	22.00
		50	50	**21.28**	**21.18**	**21.11**	22.00
		100	0	**21.07**	21.03	21.06	22.00
	16QAM	1	0	21.38	21.22	21.27	22.00
		1	50	21.34	21.24	21.26	22.00
		1	99	21.29	21.32	21.28	22.00
		50	0	21.15	20.96	21.01	22.00
		50	25	21.31	21.15	21.19	22.00
		50	50	21.36	21.21	21.27	22.00
		100	0	21.17	21.06	21.07	22.00

LTE Band7-Hotspot				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	18.86	18.68	18.61	19.50
		1	13	18.57	18.60	18.61	19.50
		1	24	19.12	19.21	18.95	19.50
		12	0	18.65	18.52	18.44	19.50
		12	6	18.69	18.59	18.56	19.50
		12	13	18.90	18.68	18.71	19.50
		25	0	18.75	18.63	18.65	19.50
	16QAM	1	0	19.03	19.24	19.15	19.50
		1	13	19.11	19.25	18.91	19.50
		1	24	18.91	19.11	18.92	19.50
		12	0	18.65	18.54	18.74	19.50
		12	6	18.54	18.61	18.86	19.50
		12	13	18.48	18.74	18.89	19.50
		25	0	18.42	18.60	18.75	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	18.88	18.69	18.64	19.50
		1	25	18.60	18.65	18.65	19.50
		1	49	19.14	19.25	18.98	19.50
		25	0	18.68	18.57	18.48	19.50
		25	13	18.72	18.64	18.60	19.50
		25	25	18.92	18.72	18.76	19.50
		50	0	18.79	18.65	18.69	19.50

	16QAM	1	0	19.07	19.27	19.17	19.50
		1	25	19.15	19.29	18.94	19.50
		1	49	18.94	19.13	18.95	19.50
		25	0	18.68	18.59	18.78	19.50
		25	13	18.56	18.65	18.89	19.50
		25	25	18.51	18.79	18.93	19.50
		50	0	18.45	18.65	18.79	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	18.87	18.65	18.62	19.50
		1	38	18.58	18.64	18.62	19.50
		1	74	19.11	19.20	18.94	19.50
		36	0	18.66	18.53	18.45	19.50
		36	18	18.69	18.59	18.56	19.50
		36	39	18.89	18.69	18.72	19.50
		75	0	18.77	18.61	18.64	19.50
	16QAM	1	0	19.05	19.25	19.15	19.50
		1	38	19.13	19.26	18.92	19.50
		1	74	18.92	19.09	18.92	19.50
		36	0	18.65	18.57	18.75	19.50
		36	18	18.53	18.60	18.85	19.50
		36	39	18.49	18.75	18.90	19.50
		75	0	18.42	18.60	18.75	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	18.84	18.61	18.59	19.50
		1	50	18.57	18.60	18.60	19.50
		1	99	**19.09**	**19.19**	**18.91**	19.50
		50	0	18.63	18.48	18.41	19.50
		50	25	18.67	18.55	18.53	19.50
		50	50	**18.75**	**18.77**	**18.68**	19.50
		100	0	**18.74**	18.56	18.60	19.50
	16QAM	1	0	19.02	19.21	19.10	19.50
		1	50	19.10	19.24	18.88	19.50
		1	99	18.89	19.06	18.90	19.50
		50	0	18.62	18.53	18.72	19.50
		50	25	18.50	18.58	18.82	19.50
		50	50	18.46	18.70	18.86	19.50
		100	0	18.40	18.56	18.72	19.50

LTE Band38-Hotspot				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	20.34	20.65	20.48	21.40
		1	13	20.39	20.60	20.58	21.40
		1	24	20.25	20.60	20.26	21.40
		12	0	21.04	20.59	21.16	21.40
		12	6	20.66	20.68	20.79	21.40
		12	13	20.72	20.65	20.68	21.40
		25	0	20.72	20.43	20.73	21.40
	16QAM	1	0	20.62	20.49	20.56	21.40
		1	13	20.39	20.41	20.64	21.40
		1	24	20.43	20.56	20.28	21.40
		12	0	20.97	20.63	21.14	21.40
		12	6	20.73	20.54	20.60	21.40
		12	13	20.65	20.53	20.50	21.40
		25	0	20.75	20.63	20.71	21.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.36	20.66	20.51	21.40
		1	25	20.42	20.65	20.62	21.40
		1	49	20.27	20.64	20.29	21.40
		25	0	21.07	20.64	21.20	21.40
		25	13	20.69	20.73	20.83	21.40
		25	25	20.74	20.69	20.73	21.40
		50	0	20.76	20.45	20.77	21.40
	16QAM	1	0	20.66	20.52	20.58	21.40
		1	25	20.43	20.45	20.67	21.40
		1	49	20.46	20.58	20.31	21.40
		25	0	21.00	20.68	21.18	21.40
		25	13	20.75	20.58	20.63	21.40
		25	25	20.68	20.58	20.54	21.40
		50	0	20.78	20.68	20.75	21.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	20.35	20.62	20.49	21.40
		1	38	20.40	20.64	20.59	21.40
		1	74	20.24	20.59	20.25	21.40
		36	0	21.05	20.60	21.17	21.40
		36	18	20.66	20.68	20.79	21.40
		36	39	20.71	20.66	20.69	21.40
		75	0	20.74	20.41	20.72	21.40

	16QAM	1	0	20.64	20.50	20.56	21.40
		1	38	20.41	20.42	20.65	21.40
		1	74	20.44	20.54	20.28	21.40
		36	0	20.97	20.66	21.15	21.40
		36	18	20.72	20.53	20.59	21.40
		36	39	20.66	20.54	20.51	21.40
		75	0	20.75	20.63	20.71	21.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	20.32	20.58	20.46	21.40
		1	50	**20.39**	**20.60**	**20.57**	21.40
		1	99	20.22	20.58	20.22	21.40
		50	0	**21.02**	20.55	**21.13**	21.40
		50	25	20.64	**20.64**	20.76	21.40
		50	50	20.68	20.61	20.65	21.40
		100	0	**20.71**	20.36	20.68	21.40
	16QAM	1	0	20.61	20.46	20.51	21.40
		1	50	20.38	20.40	20.61	21.40
		1	99	20.41	20.51	20.26	21.40
		50	0	20.94	20.62	21.12	21.40
		50	25	20.69	20.51	20.56	21.40
		50	50	20.63	20.49	20.47	21.40
		100	0	20.73	20.59	20.68	21.40

Second Antenna

Original

LTE FDD Band 2 Receiver on&Hotspot				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	19.36	19.67	19.48	20.70
		1	2	19.56	19.30	19.34	20.70
		1	5	19.45	19.45	19.46	20.70
		3	0	19.52	19.62	19.46	20.70
		3	2	19.40	19.48	19.48	20.70
		3	3	19.53	19.50	19.34	20.70
		6	0	19.43	19.65	19.40	20.70
	16QAM	1	0	19.97	19.78	19.98	20.70
		1	2	19.99	19.56	19.83	20.70
		1	5	19.62	19.70	19.58	20.70
		3	0	19.67	19.53	19.52	20.70
		3	2	19.38	19.49	19.71	20.70
		3	3	19.44	19.61	19.47	20.70
		6	0	19.35	19.51	19.81	20.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	19.33	19.63	19.45	20.70
		1	7	19.55	19.26	19.32	20.70
		1	14	19.43	19.44	19.43	20.70
		8	0	19.49	19.57	19.42	20.70
		8	4	19.38	19.44	19.45	20.70
		8	7	19.50	19.45	19.30	20.70
		15	0	19.40	19.60	19.36	20.70
	16QAM	1	0	19.97	19.74	19.93	20.70
		1	7	19.95	19.54	19.79	20.70
		1	14	19.60	19.67	19.56	20.70
		8	0	19.64	19.49	19.49	20.70
		8	4	19.35	19.47	19.68	20.70
		8	7	19.41	19.56	19.43	20.70
		15	0	19.33	19.47	19.78	20.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	19.30	19.61	19.41	20.70
		1	13	19.53	19.22	19.29	20.70
		1	24	19.40	19.39	19.39	20.70
		12	0	19.46	19.52	19.38	20.70
		12	6	19.36	19.40	19.40	20.70

		12	13	19.48	19.43	19.26	20.70
		25	0	19.40	19.59	19.34	20.70
	16QAM	1	0	19.94	19.70	19.90	20.70
		1	13	19.92	19.52	19.76	20.70
		1	24	19.57	19.65	19.52	20.70
		12	0	19.62	19.45	19.46	20.70
		12	6	19.32	19.42	19.64	20.70
		12	13	19.38	19.51	19.39	20.70
		25	0	19.31	19.43	19.73	20.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	19.32	19.62	19.44	20.70
		1	25	19.56	19.27	19.33	20.70
		1	49	19.42	19.43	19.42	20.70
		25	0	19.49	19.57	19.42	20.70
		25	13	19.39	19.45	19.44	20.70
		25	25	19.50	19.47	19.31	20.70
		50	0	19.44	19.61	19.38	20.70
	16QAM	1	0	19.96	19.73	19.92	20.70
		1	25	19.95	19.56	19.79	20.70
		1	49	19.60	19.67	19.55	20.70
		25	0	19.65	19.50	19.50	20.70
		25	13	19.34	19.46	19.67	20.70
		25	25	19.41	19.56	19.43	20.70
		50	0	19.34	19.48	19.77	20.70
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	19.31	19.58	19.42	20.70
		1	38	19.54	19.26	19.30	20.70
		1	74	19.39	19.38	19.38	20.70
		36	0	19.47	19.53	19.39	20.70
		36	18	19.36	19.40	19.40	20.70
		36	39	19.47	19.44	19.27	20.70
		75	0	19.42	19.57	19.33	20.70
	16QAM	1	0	19.91	19.71	19.90	20.70
		1	38	19.93	19.53	19.77	20.70
		1	74	19.57	19.63	19.52	20.70
		36	0	19.62	19.48	19.47	20.70
		36	18	19.31	19.41	19.63	20.70
		36	39	19.39	19.52	19.40	20.70
		75	0	19.31	19.43	19.73	20.70

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	19.28	**19.54**	**19.39**	20.70
		1	50	**19.53**	19.22	19.28	20.70
		1	99	19.37	19.37	19.35	20.70
		50	0	**19.44**	**19.48**	19.35	20.70
		50	25	19.34	19.36	**19.37**	20.70
		50	50	**19.44**	19.39	19.23	20.70
		100	0	19.39	**19.52**	19.29	20.70
	16QAM	1	0	19.60	19.67	19.85	20.70
		1	50	19.89	19.51	19.73	20.70
		1	99	19.55	19.60	19.50	20.70
		50	0	19.59	19.44	19.44	20.70
		50	25	19.28	19.39	19.60	20.70
		50	50	19.36	19.47	19.36	20.70
		100	0	19.29	19.39	19.70	20.70

LTE FDD Band 2 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	20.42	20.91	20.59	21.80
		1	2	20.77	19.90	20.24	21.80
		1	5	20.19	20.37	20.23	21.80
		3	0	20.58	20.73	20.94	21.80
		3	2	20.71	20.52	20.36	21.80
		3	3	20.57	20.61	20.36	21.80
		6	0	20.56	20.68	20.63	21.80
	16QAM	1	0	21.24	21.23	20.91	21.80
		1	2	21.26	20.33	20.78	21.80
		1	5	20.20	20.76	20.48	21.80
		3	0	20.56	20.61	21.21	21.80
		3	2	20.35	20.51	20.79	21.80
		3	3	20.56	20.78	20.54	21.80
		6	0	20.60	20.55	20.67	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	20.39	20.87	20.56	21.80
		1	7	20.76	19.86	20.22	21.80
		1	14	20.17	20.36	20.20	21.80
		8	0	20.55	20.68	20.90	21.80
		8	4	20.69	20.48	20.33	21.80
		8	7	20.54	20.56	20.32	21.80

		15	0	20.53	20.63	20.59	21.80
	16QAM	1	0	21.24	21.19	20.86	21.80
		1	7	21.22	20.31	20.74	21.80
		1	14	20.18	20.73	20.46	21.80
		8	0	20.53	20.57	21.18	21.80
		8	4	20.32	20.49	20.76	21.80
		8	7	20.53	20.73	20.50	21.80
		15	0	20.58	20.51	20.64	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	20.36	20.85	20.52	21.80
		1	13	20.74	19.82	20.19	21.80
		1	24	20.14	20.31	20.16	21.80
		12	0	20.52	20.63	20.86	21.80
		12	6	20.67	20.44	20.28	21.80
		12	13	20.52	20.54	20.28	21.80
		25	0	20.53	20.62	20.57	21.80
	16QAM	1	0	21.21	21.15	20.83	21.80
		1	13	21.19	20.29	20.71	21.80
		1	24	20.15	20.71	20.42	21.80
		12	0	20.51	20.53	21.15	21.80
		12	6	20.29	20.44	20.72	21.80
		12	13	20.50	20.68	20.46	21.80
		25	0	20.56	20.47	20.59	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	20.38	20.86	20.55	21.80
		1	25	20.77	19.87	20.23	21.80
		1	49	20.16	20.35	20.19	21.80
		25	0	20.55	20.68	20.90	21.80
		25	13	20.70	20.49	20.32	21.80
		25	25	20.54	20.58	20.33	21.80
		50	0	20.57	20.64	20.61	21.80
	16QAM	1	0	21.23	21.18	20.85	21.80
		1	25	21.22	20.33	20.74	21.80
		1	49	20.18	20.73	20.45	21.80
		25	0	20.54	20.58	21.19	21.80
		25	13	20.31	20.48	20.75	21.80
		25	25	20.53	20.73	20.50	21.80
		50	0	20.59	20.52	20.63	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	20.37	20.82	20.53	21.80

		1	38	20.75	19.86	20.20	21.80
		1	74	20.13	20.30	20.15	21.80
		36	0	20.53	20.64	20.87	21.80
		36	18	20.67	20.44	20.28	21.80
		36	39	20.51	20.55	20.29	21.80
		75	0	20.55	20.60	20.56	21.80
	16QAM	1	0	21.18	21.16	20.83	21.80
		1	38	21.20	20.30	20.72	21.80
		1	74	20.15	20.69	20.42	21.80
		36	0	20.51	20.56	21.16	21.80
		36	18	20.28	20.43	20.71	21.80
		36	39	20.51	20.69	20.47	21.80
		75	0	20.56	20.47	20.59	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	20.34	**20.78**	**20.50**	21.80
		1	50	**20.74**	19.82	20.18	21.80
		1	99	20.11	20.29	20.12	21.80
		50	0	20.50	**20.59**	**20.83**	21.80
		50	25	**20.65**	20.40	20.25	21.80
		50	50	20.48	20.50	20.25	21.80
		100	0	20.52	**20.55**	20.52	21.80
	16QAM	1	0	20.78	21.12	20.78	21.80
		1	50	21.16	20.28	20.68	21.80
		1	99	20.13	20.66	20.40	21.80
		50	0	20.48	20.52	21.13	21.80
		50	25	20.25	20.41	20.68	21.80
		50	50	20.48	20.64	20.43	21.80
		100	0	20.54	20.43	20.56	21.80

LTE FDD Band 4 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	19.41	19.81	19.67	20.80
		1	2	19.68	19.54	19.61	20.80
		1	5	19.43	19.48	19.50	20.80
		3	0	19.45	19.93	19.49	20.80
		3	2	19.41	19.74	19.47	20.80
		3	3	19.44	19.85	19.87	20.80
		6	0	19.37	19.72	19.82	20.80
	16QAM	1	0	19.93	20.22	20.40	20.80
		1	2	19.92	19.70	20.16	20.80

		1	5	19.41	19.49	20.13	20.80
		3	0	19.52	19.93	20.14	20.80
		3	2	19.45	19.72	19.88	20.80
		3	3	19.48	19.98	20.19	20.80
		6	0	19.42	19.77	19.99	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	19.37	19.73	19.62	20.80
		1	7	19.65	19.49	19.56	20.80
		1	14	19.38	19.42	19.43	20.80
		8	0	19.40	19.84	19.42	20.80
		8	4	19.36	19.65	19.40	20.80
		8	7	19.38	19.77	19.79	20.80
		15	0	19.32	19.63	19.73	20.80
	16QAM	1	0	19.88	20.16	20.33	20.80
		1	7	19.86	19.65	20.10	20.80
		1	14	19.36	19.42	20.08	20.80
		8	0	19.46	19.87	20.08	20.80
		8	4	19.39	19.65	19.81	20.80
		8	7	19.43	19.89	20.12	20.80
		15	0	19.37	19.68	19.92	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	19.34	19.71	19.58	20.80
		1	13	19.63	19.45	19.53	20.80
		1	24	19.35	19.37	19.39	20.80
		12	0	19.37	19.79	19.38	20.80
		12	6	19.34	19.61	19.35	20.80
		12	13	19.36	19.75	19.75	20.80
		25	0	19.32	19.62	19.71	20.80
	16QAM	1	0	19.85	20.12	20.30	20.80
		1	13	19.83	19.63	20.07	20.80
		1	24	19.33	19.40	20.04	20.80
		12	0	19.44	19.83	20.05	20.80
		12	6	19.36	19.60	19.77	20.80
		12	13	19.40	19.84	20.08	20.80
		25	0	19.35	19.64	19.87	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	19.36	19.72	19.61	20.80
		1	25	19.66	19.50	19.57	20.80
		1	49	19.37	19.41	19.42	20.80
		25	0	19.40	19.84	19.42	20.80

		25	13	19.37	19.66	19.39	20.80
		25	25	19.38	19.79	19.80	20.80
		50	0	19.36	19.64	19.75	20.80
	16QAM	1	0	19.87	20.15	20.32	20.80
		1	25	19.86	19.67	20.10	20.80
		1	49	19.36	19.42	20.07	20.80
		25	0	19.47	19.88	20.09	20.80
		25	13	19.38	19.64	19.80	20.80
		25	25	19.43	19.89	20.12	20.80
		50	0	19.38	19.69	19.91	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	19.35	19.68	19.59	20.80
		1	38	19.64	19.49	19.54	20.80
		1	74	19.34	19.36	19.38	20.80
		36	0	19.38	19.80	19.39	20.80
		36	18	19.34	19.61	19.35	20.80
		36	39	19.35	19.76	19.76	20.80
		75	0	19.34	19.60	19.70	20.80
	16QAM	1	0	19.82	20.13	20.30	20.80
		1	38	19.84	19.64	20.08	20.80
		1	74	19.33	19.38	20.04	20.80
		36	0	19.44	19.86	20.06	20.80
		36	18	19.35	19.59	19.76	20.80
		36	39	19.41	19.85	20.09	20.80
		75	0	19.35	19.64	19.87	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	19.32	**19.64**	**19.56**	20.80
		1	50	**19.63**	19.45	19.52	20.80
		1	99	19.32	19.35	19.35	20.80
		50	0	**19.35**	**19.75**	19.35	20.80
		50	25	19.32	19.57	19.32	20.80
		50	50	19.32	19.71	**19.72**	20.80
		100	0	19.31	19.55	**19.66**	20.80
	16QAM	1	0	19.60	20.09	20.25	20.80
		1	50	19.80	19.62	20.04	20.80
		1	99	19.31	19.35	20.02	20.80
		50	0	19.41	19.82	20.03	20.80
		50	25	19.32	19.57	19.73	20.80
		50	50	19.38	19.80	20.05	20.80
		100	0	19.33	19.60	19.84	20.80

LTE FDD Band 4 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	19.76	19.86	20.05	21.00
		1	2	19.54	19.67	19.73	21.00
		1	5	19.63	19.68	19.75	21.00
		3	0	19.82	20.05	19.97	21.00
		3	2	19.61	19.70	19.75	21.00
		3	3	19.62	19.84	19.91	21.00
		6	0	19.56	19.70	19.79	21.00
	16QAM	1	0	19.75	20.02	20.35	21.00
		1	2	19.77	19.94	20.31	21.00
		1	5	19.61	19.62	20.25	21.00
		3	0	20.22	20.23	20.15	21.00
		3	2	19.67	19.63	19.84	21.00
		3	3	19.60	19.71	20.09	21.00
		6	0	19.57	19.79	19.99	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	19.73	19.82	20.02	21.00
		1	7	19.53	19.63	19.71	21.00
		1	14	19.61	19.67	19.72	21.00
		8	0	19.79	20.00	19.93	21.00
		8	4	19.59	19.66	19.72	21.00
		8	7	19.59	19.79	19.87	21.00
		15	0	19.53	19.65	19.75	21.00
	16QAM	1	0	19.75	19.98	20.30	21.00
		1	7	19.73	19.92	20.27	21.00
		1	14	19.59	19.59	20.23	21.00
		8	0	20.19	20.19	20.12	21.00
		8	4	19.64	19.61	19.81	21.00
		8	7	19.57	19.66	20.05	21.00
		15	0	19.55	19.75	19.96	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	19.70	19.80	19.98	21.00
		1	13	19.51	19.59	19.68	21.00
		1	24	19.58	19.62	19.68	21.00
		12	0	19.76	19.95	19.89	21.00
		12	6	19.57	19.62	19.67	21.00
		12	13	19.57	19.77	19.83	21.00

		25	0	19.53	19.64	19.73	21.00
	16QAM	1	0	19.72	19.94	20.27	21.00
		1	13	19.70	19.90	20.24	21.00
		1	24	19.56	19.57	20.19	21.00
		12	0	20.17	20.15	20.09	21.00
		12	6	19.61	19.56	19.77	21.00
		12	13	19.54	19.61	20.01	21.00
		25	0	19.53	19.71	19.91	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	19.72	19.81	20.01	21.00
		1	25	19.54	19.64	19.72	21.00
		1	49	19.60	19.66	19.71	21.00
		25	0	19.79	20.00	19.93	21.00
		25	13	19.60	19.67	19.71	21.00
		25	25	19.59	19.81	19.88	21.00
		50	0	19.57	19.66	19.77	21.00
	16QAM	1	0	19.74	19.97	20.29	21.00
		1	25	19.73	19.94	20.27	21.00
		1	49	19.59	19.59	20.22	21.00
		25	0	20.20	20.20	20.13	21.00
		25	13	19.63	19.60	19.80	21.00
		25	25	19.57	19.66	20.05	21.00
		50	0	19.56	19.76	19.95	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	19.71	19.77	19.99	21.00
		1	38	19.52	19.63	19.69	21.00
		1	74	19.57	19.61	19.67	21.00
		36	0	19.77	19.96	19.90	21.00
		36	18	19.57	19.62	19.67	21.00
		36	39	19.56	19.78	19.84	21.00
		75	0	19.55	19.62	19.72	21.00
	16QAM	1	0	19.69	19.95	20.27	21.00
		1	38	19.71	19.91	20.25	21.00
		1	74	19.56	19.55	20.19	21.00
		36	0	20.17	20.18	20.10	21.00
		36	18	19.60	19.55	19.76	21.00
		36	39	19.55	19.62	20.02	21.00
		75	0	19.53	19.71	19.91	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	**19.68**	**19.73**	**19.96**	21.00

		1	50	19.51	19.59	19.67	21.00
		1	99	19.55	19.60	19.64	21.00
		50	0	**19.74**	**19.91**	**19.86**	21.00
		50	25	19.55	19.58	19.64	21.00
		50	50	19.53	19.73	19.80	21.00
		100	0	19.52	19.57	**19.68**	21.00
	16QAM	1	0	19.85	19.91	20.22	21.00
		1	50	19.67	19.89	20.21	21.00
		1	99	19.54	19.52	20.17	21.00
		50	0	20.14	20.14	20.07	21.00
		50	25	19.57	19.53	19.73	21.00
		50	50	19.52	19.57	19.98	21.00
		100	0	19.51	19.67	19.88	21.00

LTE FDD Band 7 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.90	23.13	22.79	24.40
		1	13	22.85	23.08	22.76	24.40
		1	24	23.07	23.13	22.88	24.40
		12	0	22.10	22.00	21.78	23.40
		12	6	21.79	21.99	21.77	23.40
		12	13	21.87	22.02	21.78	23.40
		25	0	21.76	21.95	21.89	23.40
	16QAM	1	0	22.20	22.14	22.05	23.40
		1	13	22.18	22.29	22.22	23.40
		1	24	22.32	22.43	22.24	23.40
		12	0	20.94	21.06	20.92	22.40
		12	6	20.88	20.86	20.80	22.40
		12	13	20.98	21.14	20.94	22.40
		25	0	20.90	21.02	21.04	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.92	23.14	22.82	24.40
		1	25	22.88	23.13	22.80	24.40
		1	49	23.09	23.17	22.91	24.40
		25	0	22.13	22.05	21.82	23.40
		25	13	21.82	22.04	21.81	23.40
		25	25	21.89	22.06	21.83	23.40
		50	0	21.80	21.97	21.93	23.40
	16QAM	1	0	22.22	22.17	22.07	23.40
		1	25	22.21	22.33	22.25	23.40

		1	49	22.35	22.45	22.27	23.40
		25	0	20.97	21.11	20.96	22.40
		25	13	20.90	20.90	20.83	22.40
		25	25	21.01	21.19	20.98	22.40
		50	0	20.93	21.07	21.08	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.91	23.10	22.80	24.40
		1	38	22.86	23.12	22.77	24.40
		1	74	23.06	23.12	22.87	24.40
		36	0	22.11	22.01	21.79	23.40
		36	18	21.79	21.99	21.77	23.40
		36	39	21.86	22.03	21.79	23.40
		75	0	21.78	21.93	21.88	23.40
	16QAM	1	0	22.17	22.15	22.05	23.40
		1	38	22.19	22.30	22.23	23.40
		1	74	22.32	22.41	22.24	23.40
		36	0	20.94	21.09	20.93	22.40
		36	18	20.87	20.85	20.79	22.40
		36	39	20.99	21.15	20.95	22.40
		75	0	20.90	21.02	21.04	22.40
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	22.88	23.06	22.77	24.40
		1	50	22.85	23.08	22.75	24.40
		1	99	**23.04**	**23.19**	**22.84**	24.40
		50	0	**22.08**	21.96	**21.75**	23.40
		50	25	21.77	21.95	21.74	23.40
		50	50	21.83	**21.98**	**21.75**	23.40
		100	0	21.75	**21.88**	21.84	23.40
	16QAM	1	0	22.18	22.11	22.00	23.40
		1	50	22.15	22.28	22.19	23.40
		1	99	22.30	22.38	22.22	23.40
		50	0	20.91	21.05	20.90	22.40
		50	25	20.84	20.83	20.76	22.40
		50	50	20.96	21.10	20.91	22.40
		100	0	20.88	20.98	21.01	22.40

LTE TDD Band 38 Body SAR& Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	23.26	23.13	23.28	24.80

		1	13	23.33	23.19	23.37	24.80
		1	24	23.11	23.11	23.07	24.80
		12	0	22.32	22.20	22.29	23.80
		12	6	22.33	22.20	22.33	23.80
		12	13	22.27	22.22	22.17	23.80
		25	0	22.29	22.22	22.31	23.80
	16QAM	1	0	22.47	22.47	22.43	23.80
		1	13	22.45	22.48	22.37	23.80
		1	24	22.39	22.32	22.24	23.80
		12	0	21.25	21.20	21.18	22.80
		12	6	21.18	21.33	21.21	22.80
		12	13	21.15	21.26	21.14	22.80
		25	0	21.17	21.30	21.15	22.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	23.28	23.14	23.31	24.80
		1	25	23.36	23.24	23.41	24.80
		1	49	23.13	23.15	23.10	24.80
		25	0	22.35	22.25	22.33	23.80
		25	13	22.36	22.25	22.37	23.80
		25	25	22.29	22.26	22.22	23.80
		50	0	22.33	22.24	22.35	23.80
	16QAM	1	0	22.49	22.50	22.45	23.80
		1	25	22.48	22.52	22.40	23.80
		1	49	22.42	22.34	22.27	23.80
		25	0	21.28	21.25	21.22	22.80
		25	13	21.20	21.37	21.24	22.80
		25	25	21.18	21.31	21.18	22.80
		50	0	21.20	21.35	21.19	22.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	23.27	23.10	23.29	24.80
		1	38	23.34	23.23	23.38	24.80
		1	74	23.10	23.10	23.06	24.80
		36	0	22.33	22.21	22.30	23.80
		36	18	22.33	22.20	22.33	23.80
		36	39	22.26	22.23	22.18	23.80
		75	0	22.31	22.20	22.30	23.80
	16QAM	1	0	22.44	22.48	22.43	23.80
		1	38	22.46	22.49	22.38	23.80
		1	74	22.39	22.30	22.24	23.80
		36	0	21.25	21.23	21.19	22.80
		36	18	21.17	21.32	21.20	22.80

		36	39	21.16	21.27	21.15	22.80
		75	0	21.17	21.30	21.15	22.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	23.24	23.06	23.26	24.80
		1	50	**23.33**	**23.19**	**23.36**	24.80
		1	99	23.08	23.09	23.03	24.80
		50	0	22.30	22.16	22.26	23.80
		50	25	**22.31**	22.16	**22.30**	23.80
		50	50	22.23	**22.18**	22.14	23.80
		100	0	**22.28**	22.15	22.26	23.80
	16QAM	1	0	22.38	22.44	22.38	23.80
		1	50	22.42	22.47	22.34	23.80
		1	99	22.37	22.27	22.22	23.80
		50	0	21.22	21.19	21.16	22.80
		50	25	21.14	21.30	21.17	22.80
		50	50	21.13	21.22	21.11	22.80
		100	0	21.15	21.26	21.12	22.80

LTE FDD Band 66 Body SAR				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	19.49	19.43	19.56	21.00
		1	2	19.60	19.47	19.50	21.00
		1	5	19.11	19.13	19.17	21.00
		3	0	19.52	19.49	19.59	21.00
		3	2	19.38	19.48	19.66	21.00
		3	3	19.39	19.25	19.46	21.00
		6	0	19.43	19.42	19.65	21.00
	16QAM	1	0	20.08	19.79	20.00	21.00
		1	2	20.10	19.94	19.92	21.00
		1	5	19.26	19.54	19.53	21.00
		3	0	19.45	19.41	19.54	21.00
		3	2	19.49	19.54	19.72	21.00
		3	3	19.22	19.31	19.66	21.00
		6	0	19.38	19.35	19.53	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	19.46	19.39	19.53	21.00
		1	7	19.59	19.43	19.48	21.00
		1	14	19.09	19.12	19.14	21.00

		8	0	19.49	19.44	19.55	21.00
		8	4	19.36	19.44	19.63	21.00
		8	7	19.36	19.20	19.42	21.00
		15	0	19.40	19.37	19.61	21.00
	16QAM	1	0	20.08	19.75	19.95	21.00
		1	7	20.06	19.92	19.88	21.00
		1	14	19.24	19.51	19.51	21.00
		8	0	19.42	19.37	19.51	21.00
		8	4	19.46	19.52	19.69	21.00
		8	7	19.19	19.26	19.62	21.00
		15	0	19.36	19.31	19.50	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	19.43	19.37	19.49	21.00
		1	13	19.57	19.39	19.45	21.00
		1	24	19.06	19.07	19.10	21.00
		12	0	19.46	19.39	19.51	21.00
		12	6	19.34	19.40	19.58	21.00
		12	13	19.34	19.18	19.38	21.00
		25	0	19.40	19.36	19.59	21.00
	16QAM	1	0	20.05	19.71	19.92	21.00
		1	13	20.03	19.90	19.85	21.00
		1	24	19.21	19.49	19.47	21.00
		12	0	19.40	19.33	19.48	21.00
		12	6	19.43	19.47	19.65	21.00
		12	13	19.16	19.21	19.58	21.00
		25	0	19.34	19.27	19.45	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	19.45	19.38	19.52	21.00
		1	25	19.60	19.44	19.49	21.00
		1	49	19.08	19.11	19.13	21.00
		25	0	19.49	19.44	19.55	21.00
		25	13	19.37	19.45	19.62	21.00
		25	25	19.36	19.22	19.43	21.00
		50	0	19.44	19.38	19.63	21.00
	16QAM	1	0	20.07	19.74	19.94	21.00
		1	25	20.06	19.94	19.88	21.00
		1	49	19.24	19.51	19.50	21.00
		25	0	19.43	19.38	19.52	21.00
		25	13	19.45	19.51	19.68	21.00

		25	25	19.19	19.26	19.62	21.00
		50	0	19.37	19.32	19.49	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	19.44	19.34	19.50	21.00
		1	38	19.58	19.43	19.46	21.00
		1	74	19.05	19.06	19.09	21.00
		36	0	19.47	19.40	19.52	21.00
		36	18	19.34	19.40	19.58	21.00
		36	39	19.33	19.19	19.39	21.00
		75	0	19.42	19.34	19.58	21.00
	16QAM	1	0	20.02	19.72	19.92	21.00
		1	38	20.04	19.91	19.86	21.00
		1	74	19.21	19.47	19.47	21.00
		36	0	19.40	19.36	19.49	21.00
		36	18	19.42	19.46	19.64	21.00
		36	39	19.17	19.22	19.59	21.00
		75	0	19.34	19.27	19.45	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	19.41	19.30	**19.47**	21.00
		1	50	**19.57**	**19.39**	19.44	21.00
		1	99	19.03	19.05	19.06	21.00
		50	0	**19.44**	19.35	19.48	21.00
		50	25	19.32	**19.36**	**19.55**	21.00
		50	50	19.30	19.14	19.35	21.00
		100	0	19.39	19.29	**19.54**	21.00
	16QAM	1	0	19.85	19.68	19.87	21.00
		1	50	20.00	19.89	19.82	21.00
		1	99	19.19	19.44	19.45	21.00
		50	0	19.37	19.32	19.46	21.00
		50	25	19.39	19.44	19.61	21.00
		50	50	19.14	19.17	19.55	21.00
		100	0	19.32	19.23	19.42	21.00

LTE FDD Band 66 Receiver on				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	19.32	19.58	19.47	20.80
		1	2	19.47	19.45	19.32	20.80

		1	5	18.92	18.99	18.98	20.80
		3	0	19.40	19.43	19.51	20.80
		3	2	19.26	19.48	19.54	20.80
		3	3	19.27	19.17	19.43	20.80
		6	0	19.31	19.28	19.47	20.80
	16QAM	1	0	20.11	19.81	19.69	20.80
		1	2	20.13	19.84	19.73	20.80
		1	5	19.02	19.57	19.14	20.80
		3	0	19.44	19.44	19.43	20.80
		3	2	19.44	19.46	19.52	20.80
		3	3	19.30	19.11	19.38	20.80
		6	0	19.25	19.25	19.65	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	19.29	19.54	19.44	20.80
		1	7	19.46	19.41	19.30	20.80
		1	14	18.90	18.98	18.95	20.80
		8	0	19.37	19.38	19.47	20.80
		8	4	19.24	19.44	19.51	20.80
		8	7	19.24	19.12	19.39	20.80
		15	0	19.28	19.23	19.43	20.80
	16QAM	1	0	20.11	19.77	19.64	20.80
		1	7	20.09	19.82	19.69	20.80
		1	14	19.00	19.54	19.12	20.80
		8	0	19.41	19.40	19.40	20.80
		8	4	19.41	19.44	19.49	20.80
		8	7	19.27	19.06	19.34	20.80
		15	0	19.23	19.21	19.62	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	19.26	19.52	19.40	20.80
		1	13	19.44	19.37	19.27	20.80
		1	24	18.87	18.93	18.91	20.80
		12	0	19.34	19.33	19.43	20.80
		12	6	19.22	19.40	19.46	20.80
		12	13	19.22	19.10	19.35	20.80
		25	0	19.28	19.22	19.41	20.80
	16QAM	1	0	20.08	19.73	19.61	20.80
		1	13	20.06	19.80	19.66	20.80
		1	24	18.97	19.52	19.08	20.80
		12	0	19.39	19.36	19.37	20.80

		12	6	19.38	19.39	19.45	20.80
		12	13	19.24	19.01	19.30	20.80
		25	0	19.21	19.17	19.57	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	19.28	19.53	19.43	20.80
		1	25	19.47	19.42	19.31	20.80
		1	49	18.89	18.97	18.94	20.80
		25	0	19.37	19.38	19.47	20.80
		25	13	19.25	19.45	19.50	20.80
		25	25	19.24	19.14	19.40	20.80
		50	0	19.32	19.24	19.45	20.80
	16QAM	1	0	20.10	19.76	19.63	20.80
		1	25	20.09	19.84	19.69	20.80
		1	49	19.00	19.54	19.11	20.80
		25	0	19.42	19.41	19.41	20.80
		25	13	19.40	19.43	19.48	20.80
		25	25	19.27	19.06	19.34	20.80
		50	0	19.24	19.22	19.61	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	19.27	19.49	19.41	20.80
		1	38	19.45	19.41	19.28	20.80
		1	74	18.86	18.92	18.90	20.80
		36	0	19.35	19.34	19.44	20.80
		36	18	19.22	19.40	19.46	20.80
		36	39	19.21	19.11	19.36	20.80
		75	0	19.30	19.20	19.40	20.80
	16QAM	1	0	20.05	19.74	19.61	20.80
		1	38	20.07	19.81	19.67	20.80
		1	74	18.97	19.50	19.08	20.80
		36	0	19.39	19.39	19.38	20.80
		36	18	19.37	19.38	19.44	20.80
		36	39	19.25	19.02	19.31	20.80
		75	0	19.21	19.17	19.57	20.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	19.24	**19.45**	**19.38**	20.80
		1	50	**19.44**	19.37	19.26	20.80
		1	99	18.84	18.91	18.87	20.80

		50	0	**19.32**	19.29	19.40	20.80
		50	25	19.20	**19.36**	**19.43**	20.80
		50	50	19.18	19.06	19.32	20.80
		100	0	19.27	19.15	**19.36**	20.80
	16QAM	1	0	19.53	19.70	19.56	20.80
		1	50	20.03	19.79	19.63	20.80
		1	99	18.95	19.47	19.06	20.80
		50	0	19.36	19.35	19.35	20.80
		50	25	19.34	19.36	19.41	20.80
		50	50	19.22	18.97	19.27	20.80
		100	0	19.19	19.13	19.54	20.80

Variant

LTE BAND4-Hotspot				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	16.51	16.82	17.10	17.50
		1	2	16.33	16.51	16.78	17.50
		1	5	16.61	16.74	17.06	17.50
		3	0	16.25	16.74	16.81	17.50
		3	2	16.13	16.76	16.63	17.50
		3	3	16.20	16.74	16.73	17.50
		6	0	16.13	16.80	16.64	17.50
	16QAM	1	0	16.46	16.45	16.54	17.50
		1	2	16.12	16.31	16.42	17.50
		1	5	16.53	16.69	16.72	17.50
		3	0	16.16	16.70	16.75	17.50
		3	2	16.21	16.57	16.64	17.50
		3	3	16.24	16.74	16.76	17.50
		6	0	16.20	16.71	16.75	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	16.48	16.78	17.07	17.50
		1	7	16.32	16.47	16.76	17.50
		1	14	16.59	16.73	17.03	17.50
		8	0	16.22	16.69	16.77	17.50
		8	4	16.11	16.72	16.60	17.50
		8	7	16.17	16.69	16.69	17.50
		15	0	16.10	16.75	16.60	17.50
	16QAM	1	0	16.43	16.41	16.49	17.50
		1	7	16.09	16.29	16.38	17.50
		1	14	16.50	16.66	16.70	17.50
		8	0	16.13	16.66	16.72	17.50
		8	4	16.18	16.55	16.61	17.50
		8	7	16.21	16.69	16.72	17.50
		15	0	16.18	16.67	16.72	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	16.45	16.76	17.03	17.50
		1	13	16.30	16.43	16.73	17.50
		1	24	16.56	16.68	16.99	17.50
		12	0	16.19	16.64	16.73	17.50
		12	6	16.09	16.68	16.55	17.50
		12	13	16.15	16.67	16.65	17.50
		25	0	16.10	16.74	16.58	17.50

	16QAM	1	0	16.43	16.37	16.46	17.50
		1	13	16.09	16.27	16.35	17.50
		1	24	16.47	16.64	16.66	17.50
		12	0	16.11	16.62	16.69	17.50
		12	6	16.15	16.50	16.57	17.50
		12	13	16.18	16.64	16.68	17.50
		25	0	16.16	16.63	16.67	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	16.47	16.77	17.06	17.50
		1	25	16.33	16.48	16.77	17.50
		1	49	16.58	16.72	17.02	17.50
		25	0	16.22	16.69	16.77	17.50
		25	13	16.12	16.73	16.59	17.50
		25	25	16.17	16.71	16.70	17.50
		50	0	16.14	16.76	16.62	17.50
	16QAM	1	0	16.47	16.40	16.48	17.50
		1	25	16.13	16.31	16.38	17.50
		1	49	16.50	16.66	16.69	17.50
		25	0	16.14	16.67	16.73	17.50
		25	13	16.17	16.54	16.60	17.50
		25	25	16.21	16.69	16.72	17.50
		50	0	16.19	16.68	16.71	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	16.46	16.73	17.04	17.50
		1	38	16.31	16.47	16.74	17.50
		1	74	16.55	16.67	16.98	17.50
		36	0	16.20	16.65	16.74	17.50
		36	18	16.09	16.68	16.55	17.50
		36	39	16.14	16.68	16.66	17.50
		75	0	16.12	16.72	16.57	17.50
	16QAM	1	0	16.45	16.38	16.46	17.50
		1	38	16.11	16.28	16.36	17.50
		1	74	16.48	16.62	16.66	17.50
		36	0	16.11	16.65	16.70	17.50
		36	18	16.14	16.49	16.56	17.50
		36	39	16.19	16.65	16.69	17.50
		75	0	16.16	16.63	16.67	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	16.43	**16.69**	**17.01**	17.50
		1	50	16.30	16.43	16.72	17.50

		1	99	**16.53**	16.66	16.95	17.50
		50	0	**16.17**	**16.71**	**16.70**	17.50
		50	25	16.07	16.64	16.52	17.50
		50	50	16.11	16.63	16.62	17.50
		100	0	16.09	**16.67**	16.53	17.50
	16QAM	1	0	16.42	16.34	16.41	17.50
		1	50	16.08	16.26	16.32	17.50
		1	99	16.45	16.59	16.64	17.50
		50	0	16.08	16.61	16.67	17.50
		50	25	16.11	16.47	16.53	17.50
		50	50	16.16	16.60	16.65	17.50
		100	0	16.14	16.59	16.64	17.50

LTE Band7-Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.46	21.58	21.56	23.40
		1	13	21.69	21.69	21.90	23.40
		1	24	21.98	21.98	21.85	23.40
		12	0	21.47	21.60	21.60	23.40
		12	6	21.60	21.68	21.75	23.40
		12	13	21.95	21.83	21.72	23.40
		25	0	21.58	21.71	21.60	23.40
	16QAM	1	0	21.79	21.79	21.95	23.40
		1	13	22.20	22.19	22.30	23.40
		1	24	22.28	22.27	22.39	23.40
		12	0	20.69	20.64	20.81	22.40
		12	6	20.74	20.70	20.85	22.40
		12	13	20.87	20.86	20.98	22.40
		25	0	20.89	20.86	20.98	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.48	21.59	21.59	23.40
		1	25	21.72	21.74	21.94	23.40
		1	49	22.00	22.02	21.88	23.40
		25	0	21.50	21.65	21.64	23.40
		25	13	21.63	21.73	21.79	23.40
		25	25	21.97	21.87	21.77	23.40
		50	0	21.62	21.73	21.64	23.40
	16QAM	1	0	21.83	21.82	21.97	23.40
		1	25	22.24	22.23	22.33	23.40
		1	49	22.31	22.29	22.42	23.40
		25	0	20.72	20.69	20.85	22.40

		25	13	20.76	20.74	20.88	22.40
		25	25	20.90	20.91	21.02	22.40
		50	0	20.92	20.91	21.02	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.47	21.55	21.57	23.40
		1	38	21.70	21.73	21.91	23.40
		1	74	21.97	21.97	21.84	23.40
		36	0	21.48	21.61	21.61	23.40
		36	18	21.60	21.68	21.75	23.40
		36	39	21.94	21.84	21.73	23.40
		75	0	21.60	21.69	21.59	23.40
	16QAM	1	0	21.81	21.80	21.95	23.40
		1	38	22.22	22.20	22.31	23.40
		1	74	22.29	22.25	22.39	23.40
		36	0	20.69	20.67	20.82	22.40
		36	18	20.73	20.69	20.84	22.40
		36	39	20.88	20.87	20.99	22.40
		75	0	20.89	20.86	20.98	22.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.44	21.51	21.54	23.40
		1	50	21.69	21.69	**21.89**	23.40
		1	99	**21.95**	**21.96**	21.81	23.40
		50	0	21.45	21.56	21.57	23.40
		50	25	21.58	21.64	**21.72**	23.40
		50	50	**21.91**	**21.79**	21.69	23.40
		100	0	21.57	**21.64**	21.55	23.40
	16QAM	1	0	21.78	21.76	21.90	23.40
		1	50	22.19	22.18	22.27	23.40
		1	99	22.26	22.22	22.37	23.40
		50	0	20.66	20.63	20.79	22.40
		50	25	20.70	20.67	20.81	22.40
		50	50	20.85	20.82	20.95	22.40
		100	0	20.87	20.82	20.95	22.40

LTE Band7-Hotspot				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.50	19.60	19.48	21.40
		1	13	19.80	19.73	19.69	21.40
		1	24	20.05	20.06	19.88	21.40
		12	0	19.46	19.57	19.55	21.40

		12	6	19.57	19.70	19.67	21.40
		12	13	19.82	19.83	19.67	21.40
		25	0	19.58	19.77	19.57	21.40
	16QAM	1	0	19.64	19.58	19.78	21.40
		1	13	20.09	20.03	20.17	21.40
		1	24	20.09	20.06	20.16	21.40
		12	0	19.57	19.50	19.60	21.40
		12	6	19.76	19.67	19.81	21.40
		12	13	19.87	19.82	19.95	21.40
		25	0	19.80	19.74	19.88	21.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.52	19.61	19.51	21.40
		1	25	19.83	19.78	19.73	21.40
		1	49	20.07	20.10	19.91	21.40
		25	0	19.49	19.62	19.59	21.40
		25	13	19.60	19.75	19.71	21.40
		25	25	19.84	19.87	19.72	21.40
		50	0	19.62	19.79	19.61	21.40
	16QAM	1	0	19.68	19.61	19.80	21.40
		1	25	20.13	20.07	20.20	21.40
		1	49	20.12	20.08	20.19	21.40
		25	0	19.60	19.55	19.64	21.40
		25	13	19.78	19.71	19.84	21.40
		25	25	19.90	19.87	19.99	21.40
		50	0	19.83	19.79	19.92	21.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.51	19.57	19.49	21.40
		1	38	19.81	19.77	19.70	21.40
		1	74	20.04	20.05	19.87	21.40
		36	0	19.47	19.58	19.56	21.40
		36	18	19.57	19.70	19.67	21.40
		36	39	19.81	19.84	19.68	21.40
		75	0	19.60	19.75	19.56	21.40
	16QAM	1	0	19.66	19.59	19.78	21.40
		1	38	20.11	20.04	20.18	21.40
		1	74	20.10	20.04	20.16	21.40
		36	0	19.57	19.53	19.61	21.40
		36	18	19.75	19.66	19.80	21.40
		36	39	19.88	19.83	19.96	21.40
		75	0	19.80	19.74	19.88	21.40

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.48	19.53	19.46	21.40
		1	50	19.80	19.73	19.68	21.40
		1	99	**20.02**	**20.04**	**19.84**	21.40
		50	0	19.44	19.53	19.52	21.40
		50	25	19.55	19.66	**19.64**	21.40
		50	50	**19.78**	**19.79**	**19.64**	21.40
		100	0	19.57	**19.70**	19.52	21.40
	16QAM	1	0	19.63	19.55	19.73	21.40
		1	50	20.08	20.02	20.14	21.40
		1	99	20.07	20.01	20.14	21.40
		50	0	19.54	19.49	19.58	21.40
		50	25	19.72	19.64	19.77	21.40
		50	50	19.85	19.78	19.92	21.40
		100	0	19.78	19.70	19.85	21.40

LTE Band38-Hotspot				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	20.20	19.90	19.92	21.80
		1	13	20.31	20.07	19.94	21.80
		1	24	19.99	19.87	19.94	21.80
		12	0	20.24	19.98	19.94	21.80
		12	6	20.16	20.06	20.01	21.80
		12	13	20.11	20.02	19.90	21.80
		25	0	20.18	20.02	19.93	21.80
	16QAM	1	0	20.03	19.97	20.14	21.80
		1	13	20.14	20.08	20.21	21.80
		1	24	19.90	19.88	19.95	21.80
		12	0	20.01	19.94	20.01	21.80
		12	6	20.11	20.03	20.14	21.80
		12	13	19.90	19.87	19.95	21.80
		25	0	19.92	19.90	19.97	21.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.22	19.91	19.95	21.80
		1	25	20.34	20.12	19.98	21.80
		1	49	20.01	19.91	19.97	21.80
		25	0	20.27	20.03	19.98	21.80
		25	13	20.19	20.11	20.05	21.80
		25	25	20.13	20.06	19.95	21.80
		50	0	20.22	20.04	19.97	21.80

	16QAM	1	0	20.07	20.00	20.16	21.80
		1	25	20.18	20.12	20.24	21.80
		1	49	19.93	19.90	19.98	21.80
		25	0	20.04	19.99	20.05	21.80
		25	13	20.13	20.07	20.17	21.80
		25	25	19.93	19.92	19.99	21.80
		50	0	19.95	19.95	20.01	21.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	20.21	19.87	19.93	21.80
		1	38	20.32	20.11	19.95	21.80
		1	74	19.98	19.86	19.93	21.80
		36	0	20.25	19.99	19.95	21.80
		36	18	20.16	20.06	20.01	21.80
		36	39	20.10	20.03	19.91	21.80
		75	0	20.20	20.00	19.92	21.80
	16QAM	1	0	20.05	19.98	20.14	21.80
		1	38	20.16	20.09	20.22	21.80
		1	74	19.91	19.86	19.95	21.80
		36	0	20.01	19.97	20.02	21.80
		36	18	20.10	20.02	20.13	21.80
		36	39	19.91	19.88	19.96	21.80
		75	0	19.92	19.90	19.97	21.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	19.91	19.83	19.90	21.80
		1	50	**20.00**	**19.98**	**20.06**	21.80
		1	99	19.96	19.85	19.90	21.80
		50	0	**20.15**	19.94	19.91	21.80
		50	25	20.14	**20.02**	**19.98**	21.80
		50	50	20.07	19.98	19.87	21.80
		100	0	**20.17**	19.95	19.88	21.80
	16QAM	1	0	20.02	19.94	20.09	21.80
		1	50	20.13	20.07	20.18	21.80
		1	99	19.88	19.83	19.93	21.80
		50	0	19.98	19.93	19.99	21.80
		50	25	20.07	20.00	20.10	21.80
		50	50	19.88	19.83	19.92	21.80
		100	0	19.90	19.86	19.94	21.80

LTE Band66-Hotspot				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	16.17	16.55	16.52	17.50
		1	2	16.48	16.72	16.76	17.50
		1	5	15.61	16.01	15.98	17.50
		3	0	16.44	16.63	16.48	17.50
		3	2	16.39	16.44	16.50	17.50
		3	3	16.25	16.33	16.13	17.50
		6	0	16.21	16.45	16.43	17.50
	16QAM	1	0	16.18	16.20	16.38	17.50
		1	2	16.26	16.24	16.36	17.50
		1	5	16.18	16.14	16.28	17.50
		3	0	16.42	16.40	16.53	17.50
		3	2	16.53	16.49	16.64	17.50
		3	3	16.28	16.32	16.41	17.50
		6	0	16.40	16.44	16.54	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	16.14	16.51	16.49	17.50
		1	7	16.47	16.68	16.74	17.50
		1	14	15.59	16.00	15.95	17.50
		8	0	16.41	16.58	16.44	17.50
		8	4	16.37	16.40	16.47	17.50
		8	7	16.22	16.28	16.09	17.50
		15	0	16.18	16.40	16.39	17.50
	16QAM	1	0	16.15	16.16	16.33	17.50
		1	7	16.23	16.22	16.32	17.50
		1	14	16.15	16.11	16.26	17.50
		8	0	16.39	16.36	16.50	17.50
		8	4	16.50	16.47	16.61	17.50
		8	7	16.25	16.27	16.37	17.50
		15	0	16.38	16.40	16.51	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	16.11	16.49	16.45	17.50
		1	13	16.45	16.64	16.71	17.50
		1	24	15.56	15.95	15.91	17.50
		12	0	16.38	16.53	16.40	17.50
		12	6	16.35	16.36	16.42	17.50
		12	13	16.20	16.26	16.05	17.50
		25	0	16.18	16.39	16.37	17.50

	16QAM	1	0	16.15	16.12	16.30	17.50
		1	13	16.23	16.20	16.29	17.50
		1	24	16.12	16.09	16.22	17.50
		12	0	16.37	16.32	16.47	17.50
		12	6	16.47	16.42	16.57	17.50
		12	13	16.22	16.22	16.33	17.50
		25	0	16.36	16.36	16.46	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	16.13	16.50	16.48	17.50
		1	25	16.48	16.69	16.75	17.50
		1	49	15.58	15.99	15.94	17.50
		25	0	16.41	16.58	16.44	17.50
		25	13	16.38	16.41	16.46	17.50
		25	25	16.22	16.30	16.10	17.50
		50	0	16.22	16.41	16.41	17.50
	16QAM	1	0	16.19	16.15	16.32	17.50
		1	25	16.27	16.24	16.32	17.50
		1	49	16.15	16.11	16.25	17.50
		25	0	16.40	16.37	16.51	17.50
		25	13	16.49	16.46	16.60	17.50
		25	25	16.25	16.27	16.37	17.50
		50	0	16.39	16.41	16.50	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	16.12	16.46	16.46	17.50
		1	38	16.46	16.68	16.72	17.50
		1	74	15.55	15.94	15.90	17.50
		36	0	16.39	16.54	16.41	17.50
		36	18	16.35	16.36	16.42	17.50
		36	39	16.19	16.27	16.06	17.50
		75	0	16.20	16.37	16.36	17.50
	16QAM	1	0	16.17	16.13	16.30	17.50
		1	38	16.25	16.21	16.30	17.50
		1	74	16.13	16.07	16.22	17.50
		36	0	16.37	16.35	16.48	17.50
		36	18	16.46	16.41	16.56	17.50
		36	39	16.23	16.23	16.34	17.50
		75	0	16.36	16.36	16.46	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	16.09	16.42	16.43	17.50
		1	50	**16.45**	**16.64**	**16.70**	17.50

		1	99	15.53	15.93	15.87	17.50
		50	0	**16.36**	16.38	16.37	17.50
		50	25	16.33	**16.39**	**16.39**	17.50
		50	50	16.16	16.22	16.02	17.50
		100	0	16.17	**16.32**	**16.32**	17.50
	16QAM	1	0	16.14	16.09	16.25	17.50
		1	50	16.22	16.19	16.26	17.50
		1	99	16.10	16.04	16.20	17.50
		50	0	16.34	16.31	16.45	17.50
		50	25	16.43	16.39	16.53	17.50
		50	50	16.20	16.18	16.30	17.50
		100	0	16.34	16.32	16.43	17.50

9.4 WLAN Mode

Original

Wi-Fi 2.4G Receiver off / Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.00	18.75
	6/2437	19.00	18.46
	11/2462	19.00	18.60
802.11g (6M)	1/2412	15.00	14.67
	2/2417	17.00	16.37
	4/2427	19.50	18.80
	6/2437	19.50	**19.02**
	8/2447	19.50	18.84
	10/2457	17.00	16.32
	11/2462	15.00	14.34
802.11n (HT20) (MCS0)	1/2412	15.00	14.47
	2/2417	17.00	16.21
	4/2427	19.50	18.72
	6/2437	19.50	18.87
	8/2447	19.50	18.68
	10/2457	17.00	16.14
	11/2462	15.00	14.12
802.11n (HT40) (MCS0)	3/2422	11.50	11.34
	5/2432	13.50	13.00
	6/2437	15.00	14.34
	7/2442	13.50	12.88
	8/2447	12.00	11.78
	9/2452	12.50	11.49
Note: Initial test configuration is 802.11g mode.			

Wi-Fi 2.4G Receiver on / Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	16.00	14.35
	6/2437	16.00	14.06
	11/2462	16.00	14.23
802.11g (6M)	1/2412	15.00	13.42
	2/2417	16.00	**14.69**

	4/2427	16.00	14.67
	6/2437	16.00	13.78
	8/2447	16.00	13.69
	10/2457	16.00	14.10
	11/2462	15.00	13.48
802.11n (HT20) (MCS0)	1/2412	15.00	13.20
	2/2417	16.00	14.51
	4/2427	16.00	14.01
	6/2437	16.00	13.64
	8/2447	16.00	13.50
	10/2457	16.00	13.90
	11/2462	15.00	13.28
802.11n (HT40) (MCS0)	3/2422	11.50	9.93
	5/2427	13.50	12.30
	6/2437	15.00	13.36
	7/2442	13.50	11.25
	8/2447	12.00	9.13
	9/2452	12.50	9.44
Note: Initial test configuration is 802.11g mode.			

Wi-Fi 5G (U-NII-1) Receiver off	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
Mode		Tune-up	Meas.
802.11a (6M)	36/5180	15.00	14.71
	40/5200	18.50	**18.35**
	44/5220	18.50	18.11
	48/5240	18.50	17.88
802.11n-HT20 (MCS0)	36/5180	15.00	14.62
	40/5200	18.50	18.28
	44/5220	18.50	17.92
	48/5240	18.50	17.72
802.11n-HT40 (MCS0)	38/5190	9.00	8.82
	46/5230	17.50	17.44
802.11ac-VHT20 (MCS0)	36/5180	15.00	14.50
	40/5200	18.50	18.01
	44/5220	18.50	17.89
	48/5240	18.50	17.51
802.11ac-VHT40 (MCS0)	38/5190	9.00	8.83
	46/5230	17.50	17.40
802.11ac-VHT80	42/5210	8.00	7.85

(MCS0)			
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-1) Receiver on / Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	15.00	13.66
	40/5200	15.00	**13.75**
	44/5220	15.00	13.69
	48/5240	15.00	13.27
802.11n-HT20 (MCS0)	36/5180	15.00	13.52
	40/5200	15.00	13.53
	44/5220	15.00	13.48
	48/5240	15.00	13.10
802.11n-HT40 (MCS0)	38/5190	9.00	8.61
	46/5230	15.00	13.36
802.11ac-VHT20 (MCS0)	36/5180	15.00	13.62
	40/5200	15.00	13.55
	44/5220	15.00	13.53
	48/5240	15.00	13.11
802.11ac-VHT40 (MCS0)	38/5190	9.00	8.52
	46/5230	15.00	13.03
802.11ac-VHT80 (MCS0)	42/5210	8.00	7.58
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-1) Receiver off + Hotspot / Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	15.00	14.71
	40/5200	17.50	17.39
	44/5220	17.50	17.02
	48/5240	17.50	16.90
802.11n-HT20 (MCS0)	36/5180	15.00	14.62
	40/5200	17.50	17.11
	44/5220	17.50	16.85
	48/5240	17.50	16.90
802.11n-HT40 (MCS0)	38/5190	9.00	8.82
	46/5230	17.50	**17.44**
802.11ac-VHT20	36/5180	15.00	14.50

(MCS0)	40/5200	17.50	16.86
	44/5220	17.50	16.90
	48/5240	17.50	16.78
802.11ac-VHT40 (MCS0)	38/5190	9.00	8.83
	46/5230	17.50	17.40
802.11ac-VHT80 (MCS0)	42/5210	8.00	7.85
Note. Initial test configuration is 802.11n-HT40 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2A) Receiver off	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
Mode		Tune-up	Meas.
802.11a (6M)	52/5260	18.50	18.05
	56/5280	18.50	18.12
	60/5300	18.50	18.30
	64/5320	16.00	15.28
802.11n-HT20 (MCS0)	52/5260	18.50	18.02
	56/5280	18.50	18.22
	60/5300	18.50	18.32
	64/5320	16.00	15.42
802.11n-HT40 (MCS0)	54/5270	17.50	17.10
	62/5310	9.50	9.00
802.11ac-VHT20 (MCS0)	52/5260	18.50	**18.35**
	56/5280	18.50	18.30
	60/5300	18.50	18.21
	64/5320	16.00	15.51
802.11ac-VHT40 (MCS0)	54/5270	17.50	17.06
	62/5310	9.50	9.02
802.11ac-VHT80 (MCS0)	58/5290	8.50	7.08
Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2A) Receiver on	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
Mode		Tune-up	Meas.
802.11a (6M)	52/5260	15.00	13.34
	56/5280	15.00	13.37
	60/5300	15.00	**13.58**
	64/5320	15.00	13.54
802.11n-HT20	52/5260	15.00	13.20

(MCS0)	56/5280	15.00	13.41
	60/5300	15.00	13.45
	64/5320	15.00	13.37
802.11n-HT40 (MCS0)	54/5270	15.00	13.17
	62/5310	9.50	8.41
802.11ac-VHT20 (MCS0)	52/5260	15.00	13.14
	56/5280	15.00	13.40
	60/5300	15.00	13.42
	64/5320	15.00	13.37
802.11ac-VHT40 (MCS0)	54/5270	15.00	13.15
	62/5310	9.50	8.36
802.11ac-VHT80 (MCS0)	58/5290	8.50	7.75
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2C) Receiver off	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
Mode		Tune-up	Meas.
802.11a (6M)	100/5500	17.50	16.98
	104/5520	18.50	17.63
	120/5600	18.50	17.86
	136/5680	18.50	18.08
	140/5700	15.00	14.72
802.11n-HT20 (MCS0)	100/5500	17.50	17.34
	104/5520	18.50	17.65
	120/5600	18.50	17.73
	136/5680	18.50	18.01
	140/5700	15.00	14.48
802.11n-HT40 (MCS0)	102/5510	10.00	9.43
	110/5550	17.50	16.90
	118/5590	17.50	16.93
	134/5670	17.00	16.40
802.11ac-VHT20 (MCS0)	100/5500	17.50	17.34
	104/5520	18.50	17.52
	120/5600	18.50	17.73
	136/5680	18.50	**18.10**
	140/5700	15.00	14.47
802.11ac-VHT40 (MCS0)	102/5510	10.00	9.42
	110/5550	17.50	16.83
	118/5590	17.50	16.97

	134/5670	17.00	16.99
802.11ac-VHT80 (MCS0)	106/5530	9.00	8.84
	122/5610	17.00	16.79
Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2C) Receiver on Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	15.00	12.36
	104/5520	15.00	12.27
	120/5600	15.00	12.07
	136/5680	15.00	12.44
	140/5700	15.00	12.59
802.11n-HT20 (MCS0)	100/5500	15.00	12.20
	104/5520	15.00	12.10
	120/5600	15.00	12.01
	136/5680	15.00	12.29
	140/5700	15.00	12.42
802.11n-HT40 (MCS0)	102/5510	10.00	8.54
	110/5550	15.00	12.03
	118/5590	15.00	11.92
	134/5670	15.00	12.24
802.11ac-VHT20 (MCS0)	100/5500	15.00	12.21
	104/5520	15.00	12.11
	120/5600	15.00	12.01
	136/5680	15.00	12.29
	140/5700	15.00	12.42
802.11ac-VHT40 (MCS0)	102/5510	10.00	8.47
	110/5550	15.00	12.04
	118/5590	15.00	11.93
	134/5670	15.00	12.24
802.11ac-VHT80 (MCS0)	106/5530	9.00	7.45
	122/5610	15.00	**13.04**
Note. Initial test configuration is 802.11ac-VHT80 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-3) Receiver off Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	18.50	**18.03**
	157/5785	18.50	17.87
	165/5825	18.50	17.38
802.11n-HT20 (MCS0)	149/5745	18.50	17.83
	157/5785	18.50	17.82
	165/5825	18.50	17.34
802.11n-HT40 (MCS0)	151/5755	17.50	17.03
	159/5795	17.50	16.78
802.11ac-VHT20 (MCS0)	149/5745	18.50	17.88
	157/5785	18.50	17.90
	165/5825	18.50	17.40
802.11ac-VHT40 (MCS0)	151/5755	17.50	17.01
	159/5795	17.50	16.73
802.11ac-VHT80 (MCS0)	155/5775	17.00	16.80
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-3) Receiver on Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	15.00	12.96
	157/5785	15.00	12.65
	165/5825	15.00	12.97
802.11n-HT20 (MCS0)	149/5745	15.00	12.78
	157/5785	15.00	12.48
	165/5825	15.00	12.81
802.11n-HT40 (MCS0)	151/5755	15.00	12.76
	159/5795	15.00	12.47
802.11ac-VHT20 (MCS0)	149/5745	15.00	12.79
	157/5785	15.00	12.46
	165/5825	15.00	12.80
802.11ac-VHT40 (MCS0)	151/5755	15.00	12.77
	159/5795	15.00	12.47
802.11ac-VHT80 (MCS0)	155/5775	15.00	**13.48**
Note. Initial test configuration is 802.11ac-VHT80 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-3) Receiver off + Hotspot Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	17.50	**17.12**
	157/5785	17.50	16.91
	165/5825	17.50	16.47
802.11n-HT20 (MCS0)	149/5745	17.50	16.92
	157/5785	17.50	16.88
	165/5825	17.50	16.45
802.11n-HT40 (MCS0)	151/5755	17.50	16.08
	159/5795	17.50	17.00
802.11ac-VHT20 (MCS0)	149/5745	17.50	16.96
	157/5785	17.50	17.01
	165/5825	17.50	16.53
802.11ac-VHT40 (MCS0)	151/5755	17.50	16.12
	159/5795	17.50	15.83
802.11ac-VHT80 (MCS0)	155/5775	17.00	15.88
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Variant

5GHz Wi-Fi (U-NII-2A) Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	18.50	17.76
	56/5280	18.50	16.81
	60/5300	18.50	17.58
	64/5320	16.00	15.30
802.11nHT20(MCS0)	52/5260	18.50	17.56
	56/5280	18.50	17.66
	60/5300	18.50	17.64
	64/5320	16.00	15.31
802.11nHT40(MCS0)	54/5270	17.50	16.72
	62/5310	9.50	4.95
802.11ac-VHT20(MCS0)	52/5260	18.50	**17.77**
	56/5280	18.50	17.43
	60/5300	18.50	17.44
	64/5320	16.00	15.12
802.11ac-VHT40(MCS0)	54/5270	17.50	16.63
	62/5310	9.50	4.95
802.11ac-VHT80(MCS0)	58/5290	8.50	3.60
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

5GHz Wi-Fi U-NII-2C Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	16.50	15.07
	104/5520	18.50	16.72
	120/5600	18.50	16.88
	136/5680	18.50	16.79
	140/5700	14.00	13.19
802.11nHT20 (MCS0)	100/5500	16.50	15.01
	104/5520	18.50	16.61
	120/5600	18.50	16.82
	136/5680	18.50	16.88
	140/5700	14.00	13.12
802.11nHT40 (MCS0)	102/5510	10.00	4.20
	110/5550	17.50	15.83
	118/5590	17.50	15.75
	134/5670	17.00	15.52
802.11ac-VHT20 (MCS0)	100/5500	16.50	14.44
	104/5520	18.50	**16.96**
	120/5600	18.50	16.77
	136/5680	18.50	16.62
	140/5700	14.00	13.01
802.11ac-VHT40 (MCS0)	102/5510	10.00	4.01
	110/5550	17.50	15.84
	118/5590	17.50	15.76
	134/5670	17.00	15.53
802.11ac-VHT80 (MCS0)	106/5530	9.00	3.58
	122/5610	17.00	16.04
Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.			

9.5 Bluetooth Mode

BT	Maximum Output Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	11.71	11.51	11.55	13.50
π/4DQPSK	10.90	10.19	10.81	13.00
8DPSK	11.25	10.72	11.14	13.00
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	6.85	6.40	7.45	8.50

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations

The Detailed Antenna Locations refer to *Antenna Locations.*

Antenna		Band
Main Antenna	ANT 0	GSM 1900/WCDMA 2/4/LTE 2/4/66
	ANT 1	GSM 850/WCDMA 5/LTE 5/13/26
	ANT 4	LTE 7/38
Div Antenna	ANT 2	GSM 1900/WCDMA 2/4/LTE 2/4/66
	ANT 0	LTE 7/38
Wi-Fi Antenna & BT	Wi-Fi 2.4G/Bluetooth	
5G Wi-Fi Antenna	Wi-Fi 5G	

Overall (Length x Width): 163.4mm x 74.7 mm Overall Diagonal: 169.98 mm							
Distance of the Antenna to the EUT surface/edge							
Antenna		Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main Antenna	ANT 0	＜25mm	＜25mm	＜25mm	＞25mm	＞25mm	＜25mm
	ANT 1	＜25mm	＜25mm	＞25mm	＜25mm	＞25mm	＜25mm
	ANT 4	＜25mm	＜25mm	＜25mm	＞25mm	＞25mm	＜25mm
Second Antenna	ANT 2	＜25mm	＜25mm	＞25mm	＞25mm	＜25mm	＞25mm
	ANT 0	＜25mm	＜25mm	＜25mm	＞25mm	＞25mm	＜25mm
BT/Wi-Fi 2.4G Antenna		＜25mm	＜25mm	＞25mm	＜25mm	＜25mm	＞25mm
Wi-Fi 5G Antenna		＜25mm	＜25mm	＞25mm	＜25mm	＜25mm	＞25mm
Hotspot mode, Positions for SAR tests							
Mode		Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main Antenna	ANT 0	Yes	Yes	Yes	N/A	N/A	Yes
	ANT 1	Yes	Yes	N/A	Yes	N/A	Yes
	ANT 4	Yes	Yes	Yes	N/A	N/A	Yes
Second Antenna	ANT 2	Yes	Yes	N/A	N/A	Yes	N/A
	ANT 0	Yes	Yes	Yes	N/A	N/A	Yes
BT/Wi-Fi 2.4G Antenna		Yes	Yes	N/A	Yes	Yes	N/A
Wi-Fi 5G Antenna		Yes	Yes	N/A	Yes	Yes	N/A

Note: 1. Per KDB 941225 D06, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

2. For smart phones with an overall diagonal dimension is 169.98 mm. Per KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, product specific 10-g SAR must be tested as a phablet to determine SAR compliance. For Phablet, Since hotspot mode 1-g *reported* SAR < 1.2 W/kg, product specific 10-g SAR is no required.

3. Per FCC KDB 447498 D01, for each exposure position, testing of other requised channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
a) ≤0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100MHz
b) ≤0.6 W/kg or 1.5 W/kg, for1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
c) ≤ 0.4 W/kg or 1.0 Wkg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
4. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
5. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

10.2 Measured SAR Results

Note: 1.The value with blue color is the maximum SAR Value of each test band.

2. For GSM, when multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

3. For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

4. For LTE, QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are≥ 50% limit (1g).

Head SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850 (Original)	Main Antenna	Left cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	33.12	0.154	0.025	1.17	0.180	/
		Left Tilt	0	GSM	Receiver on	-	-	190/836.6	33.80	33.12	0.075	-0.090	1.17	0.088	/
		Right cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	33.12	0.136	0.060	1.17	0.159	/
		Right Tilt	0	GSM	Receiver on	-	-	190/836.6	33.80	33.12	0.074	0.049	1.17	0.087	/
		Left cheek Battery 2	0	GSM	Receiver on	-	-	190/836.6	33.80	33.12	0.182	0.000	1.17	0.213	/
GSM 850 (Variant)	Main Antenna	Left cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	33.12	0.209	-0.040	1.17	0.244	28
GSM 1900 (Original)	Main Antenna	Left cheek	0	GSM	Receiver on	-	-	661/1880	30.80	29.91	0.152	0.032	1.23	0.187	29
		Left Tilt	0	GSM	Receiver on	-	-	661/1880	30.80	29.91	0.085	-0.090	1.23	0.104	/
		Right cheek	0	GSM	Receiver on	-	-	661/1880	30.80	29.91	0.098	0.088	1.23	0.120	/
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	30.80	29.91	0.072	0.020	1.23	0.088	/
GSM 1900 (Variant)	Second Antenna	Left cheek	0	GSM	Receiver on	-	-	661/1880	30.80	29.91	0.104	-0.028	1.23	0.128	/
WCDMA II (Original)	Main Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.40	23.33	0.129	0.011	1.28	0.165	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.40	23.33	0.075	-0.080	1.28	0.096	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.40	23.33	0.121	0.062	1.28	0.155	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.40	23.33	0.094	0.040	1.28	0.120	/
	Second Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	20.70	19.31	0.347	0.120	1.38	0.478	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	20.70	19.31	0.511	0.100	1.38	0.704	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	20.70	19.31	0.511	0.090	1.38	0.704	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	20.70	19.31	0.672	0.030	1.38	0.925	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9262/1852.4	20.70	18.99	0.622	0.036	1.48	0.922	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9538/1907.6	20.70	19.05	0.619	0.014	1.46	0.905	/
	Second Antenna	Right Tilt Battery 2	0	RMC 12.2K	Receiver on	-	-	9400/1880	20.70	19.31	0.614	-0.060	1.38	0.846	/

WCDMA II (Variant)	Main Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.40	23.33	0.139	-0.066	1.28	0.178	/
	Second Antenna	Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	20.70	19.31	0.685	-0.060	1.38	0.943	30
WCDMA IV (Original)	Main Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.20	23.16	0.112	-0.030	1.27	0.142	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.20	23.16	0.062	0.010	1.27	0.079	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.20	23.16	0.058	0.039	1.27	0.074	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.20	23.16	0.051	0.014	1.27	0.065	/
	Second Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	20.80	19.69	0.249	-0.010	1.29	0.322	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	20.80	19.69	0.373	0.070	1.29	0.482	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	20.80	19.69	0.441	0.150	1.29	0.569	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	20.80	19.69	0.503	-0.010	1.29	0.649	/
	Second Antenna	Right Tilt Battery 2	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	20.80	19.69	0.516	-0.033	1.29	0.666	31
WCDMA IV (Variant)	Main Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.20	23.16	0.096	-0.032	1.27	0.122	/
	Second Antenna	Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	20.80	19.69	0.361	0.000	1.29	0.466	/
WCDMA V (Original)	Main Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	24.15	0.201	-0.010	1.30	0.262	32
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	24.15	0.097	0.150	1.30	0.126	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	24.15	0.193	0.046	1.30	0.252	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	24.15	0.101	0.030	1.30	0.132	/
		Left cheek Battery 2	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	24.15	0.174	0.020	1.30	0.227	/
WCDMA V (Variant)	Main Antenna	Left cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	24.15	0.135	0.014	1.30	0.176	/
LTE 2 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	0	18900/1880	24.40	23.67	0.139	-0.150	1.18	0.164	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.40	22.54	0.142	0.041	1.22	0.173	/
		Left Tilt	0	QPSK	Receiver on	1	0	18900/1880	24.40	23.67	0.042	0.039	1.18	0.049	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.40	22.54	0.060	0.042	1.22	0.073	/
		Right cheek	0	QPSK	Receiver on	1	0	18900/1880	24.40	23.67	0.128	0.053	1.18	0.151	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.40	22.54	0.108	0.080	1.22	0.132	/
		Right Tilt	0	QPSK	Receiver on	1	0	18900/1880	24.40	23.67	0.101	0.160	1.18	0.119	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.40	22.54	0.083	0.037	1.22	0.102	/
	Second Antenna	Left cheek	0	QPSK	Receiver on	1	0	18900/1880	20.70	19.54	0.413	-0.020	1.31	0.539	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.70	19.48	0.411	0.030	1.32	0.544	/
		Left Tilt	0	QPSK	Receiver on	1	0	18900/1880	20.70	19.54	0.585	0.080	1.31	0.764	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.70	19.48	0.585	0.050	1.32	0.775	/
		Right cheek	0	QPSK	Receiver on	1	0	18900/1880	20.70	19.54	0.575	0.030	1.31	0.751	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.70	19.48	0.581	0.020	1.32	0.769	/
		Right Tilt	0	QPSK	Receiver on	1	0	18900/1880	20.70	19.54	0.722	0.030	1.31	0.943	33
			0	QPSK	Receiver on	1	50	18700/1860	20.70	19.53	0.659	0.012	1.31	0.863	/

			0	QPSK	Receiver on	1	0	19100/1900	20.70	19.39	0.689	-0.060	1.35	0.932	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.70	19.48	0.702	0.040	1.32	0.930	/
			0	QPSK	Receiver on	50%	0	18700/1860	20.70	19.44	0.625	0.040	1.34	0.835	/
			0	QPSK	Receiver on	50%	25	19100/1900	20.70	19.37	0.667	0.000	1.36	0.906	/
			0	QPSK	Receiver on	100%	0	18900/1880	20.70	19.52	0.684	0.028	1.31	0.898	/
			0	QPSK	Receiver on	100%	0	18700/1860	20.70	19.39	0.632	0.060	1.35	0.855	/
			0	QPSK	Receiver on	100%	0	19100/1900	20.70	19.29	0.647	-0.048	1.38	0.895	/
	Second Antenna	Right Tilt Battery 2	0	QPSK	Receiver on	1	0	18900/1880	20.70	19.54	0.702	0.040	1.31	0.917	/
LTE 2 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	50%	0	18900/1880	23.40	22.54	0.153	0.010	1.22	0.187	/
	Second Antenna	Right Tilt	0	QPSK	Receiver on	1	0	18900/1880	20.70	19.54	0.719	-0.015	1.31	0.939	/
LTE 4 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	0	20175/1732.5	24.20	23.44	0.108	0.073	1.19	0.129	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	23.20	22.66	0.106	0.078	1.13	0.120	/
		Left Tilt	0	QPSK	Receiver on	1	0	20175/1732.5	24.20	23.44	0.050	0.021	1.19	0.059	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	23.20	22.66	0.047	0.040	1.13	0.054	/
		Right cheek	0	QPSK	Receiver on	1	0	20175/1732.5	24.20	23.44	0.062	0.037	1.19	0.074	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	23.20	22.66	0.061	0.075	1.13	0.069	/
		Right Tilt	0	QPSK	Receiver on	1	0	20175/1732.5	24.20	23.44	0.053	0.029	1.19	0.063	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	23.20	22.66	0.048	0.079	1.13	0.055	/
	Second Antenna	Left cheek	0	QPSK	Receiver on	1	0	20175/1732.5	20.80	19.64	0.290	0.080	1.31	0.379	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.80	19.75	0.288	0.100	1.27	0.367	/
		Left Tilt	0	QPSK	Receiver on	1	0	20175/1732.5	20.80	19.64	0.460	0.030	1.31	0.601	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.80	19.75	0.471	0.060	1.27	0.600	/
		Right cheek	0	QPSK	Receiver on	1	0	20175/1732.5	20.80	19.64	0.438	0.100	1.31	0.572	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.80	19.75	0.417	0.060	1.27	0.531	/
		Right Tilt	0	QPSK	Receiver on	1	0	20175/1732.5	20.80	19.64	0.559	0.050	1.31	0.730	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.80	19.75	0.548	0.040	1.27	0.698	/
	Second Antenna	Right Tilt Battery 2	0	QPSK	Receiver on	1	0	20175/1732.5	20.80	19.64	0.572	0.029	1.31	0.747	34
LTE 4 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	0	20175/1732.5	24.20	23.44	0.129	0.026	1.19	0.154	/
	Second Antenna	Right Tilt	0	QPSK	Receiver on	1	0	20175/1732.5	20.80	19.64	0.520	0.010	1.31	0.679	/
LTE 5 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	25	20600/844	25.30	24.45	0.162	-0.080	1.22	0.197	/
			0	QPSK	Receiver on	50%	0	20600/844	24.30	23.58	0.134	0.020	1.18	0.158	/
		Left Tilt	0	QPSK	Receiver on	1	25	20600/844	25.30	24.45	0.095	-0.010	1.22	0.116	/
			0	QPSK	Receiver on	50%	0	20600/844	24.30	23.58	0.077	0.050	1.18	0.091	/
		Right cheek	0	QPSK	Receiver on	1	25	20600/844	25.30	24.45	0.160	0.020	1.22	0.195	/
			0	QPSK	Receiver on	50%	0	20600/844	24.30	23.58	0.133	0.020	1.18	0.157	/
		Right Tilt	0	QPSK	Receiver on	1	25	20600/844	25.30	24.45	0.103	-0.010	1.22	0.125	/
			0	QPSK	Receiver on	50%	0	20600/844	24.30	23.58	0.084	0.020	1.18	0.099	/

		Left cheek Battery 2	0	QPSK	Receiver on	1	25	20600/844	25.30	24.45	0.232	0.169	1.22	0.282	35
LTE 5 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	25	20600/844	25.30	24.45	0.192	0.041	1.22	0.234	/
LTE 7 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	99	20850/2510	21.00	20.68	0.531	0.012	1.08	0.572	/
			0	QPSK	Receiver on	50%	50	20850/2510	21.00	20.66	0.596	0.020	1.08	0.645	/
		Left Tilt	0	QPSK	Receiver on	1	99	20850/2510	21.00	20.68	0.156	0.050	1.08	0.168	/
			0	QPSK	Receiver on	50%	50	20850/2510	21.00	20.66	0.167	0.020	1.08	0.181	/
		Right cheek	0	QPSK	Receiver on	1	99	20850/2510	21.00	20.68	0.583	0.010	1.08	0.628	/
			0	QPSK	Receiver on	50%	50	20850/2510	21.00	20.66	0.586	0.000	1.08	0.634	/
		Right Tilt	0	QPSK	Receiver on	1	99	20850/2510	21.00	20.68	0.531	0.000	1.08	0.572	/
			0	QPSK	Receiver on	50%	50	20850/2510	21.00	20.66	0.360	0.010	1.08	0.389	/
	Second Antenna	Left cheek	0	QPSK	Receiver on	1	99	21100/2535	24.40	23.19	0.075	0.058	1.32	0.099	/
			0	QPSK	Receiver on	50%	0	20850/2510	23.40	22.08	0.110	0.040	1.36	0.149	/
		Left Tilt	0	QPSK	Receiver on	1	99	21100/2535	24.40	23.19	0.051	-0.091	1.32	0.067	/
			0	QPSK	Receiver on	50%	0	20850/2510	23.40	22.08	0.032	-0.040	1.36	0.043	/
		Right cheek	0	QPSK	Receiver on	1	99	21100/2535	24.40	23.19	0.067	0.061	1.32	0.088	/
			0	QPSK	Receiver on	50%	0	20850/2510	23.40	22.08	0.046	0.033	1.36	0.063	/
		Right Tilt	0	QPSK	Receiver on	1	99	21100/2535	24.40	23.19	0.051	-0.048	1.32	0.067	/
			0	QPSK	Receiver on	50%	0	20850/2510	23.40	22.08	0.025	-0.110	1.36	0.033	/
	Main Antenna	Left cheek Battery 2	0	QPSK	Receiver on	50%	50	20850/2510	21.00	20.66	0.505	0.023	1.08	0.546	/
LTE 7 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	50%	50	20850/2510	20.50	19.03	0.502	0.010	1.40	0.704	36
	Second Antenna	Left cheek	0	QPSK	Receiver on	50%	0	20850/2510	23.40	22.08	0.123	0.021	1.36	0.167	/
LTE 13 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	0	23230/782	25.00	23.47	0.067	0.072	1.42	0.095	/
			0	QPSK	Receiver on	50%	25	23230/782	24.00	22.39	0.054	0.020	1.45	0.078	/
		Left Tilt	0	QPSK	Receiver on	1	0	23230/782	25.00	23.47	0.039	0.025	1.42	0.055	/
			0	QPSK	Receiver on	50%	25	23230/782	24.00	22.39	0.030	0.050	1.45	0.043	/
		Right cheek	0	QPSK	Receiver on	1	0	23230/782	25.00	23.47	0.060	0.065	1.42	0.085	/
			0	QPSK	Receiver on	50%	25	23230/782	24.00	22.39	0.049	-0.020	1.45	0.071	/
		Right Tilt	0	QPSK	Receiver on	1	0	23230/782	25.00	23.47	0.032	-0.160	1.42	0.046	/
			0	QPSK	Receiver on	50%	25	23230/782	24.00	22.39	0.026	-0.040	1.45	0.038	/
		Left cheek Battery 2	0	QPSK	Receiver on	1	0	23230/782	25.00	23.47	0.079	0.022	1.42	0.113	/
LTE 13 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	0	23230/782	25.00	23.47	0.082	0.014	1.42	0.116	37
LTE 26 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.32	0.178	-0.120	1.25	0.223	/
			0	QPSK	Receiver on	50%	0	26865/831.5	24.30	23.55	0.143	0.063	1.19	0.170	/
		Left Tilt	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.32	0.072	0.032	1.25	0.090	/
			0	QPSK	Receiver on	50%	0	26865/831.5	24.30	23.55	0.056	0.057	1.19	0.067	/
		Right cheek	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.32	0.131	0.020	1.25	0.164	/

			0	QPSK	Receiver on	50%	0	26865/831.5	24.30	23.55	0.100	0.020	1.19	0.119	/
		Right Tilt	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.32	0.089	0.030	1.25	0.112	/
			0	QPSK	Receiver on	50%	0	26865/831.5	24.30	23.55	0.068	0.020	1.19	0.081	/
		Left cheek Battery 2	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.32	0.172	0.038	1.25	0.216	/
LTE 26 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.32	0.223	0.091	1.25	0.279	38
LTE 38 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	50	38000/2595	22.90	22.03	0.496	0.170	1.22	0.606	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.90	22.11	0.482	0.020	1.20	0.578	/
		Left Tilt	0	QPSK	Receiver on	1	50	38000/2595	22.90	22.03	0.152	0.040	1.22	0.186	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.90	22.11	0.164	0.022	1.20	0.197	/
		Right cheek	0	QPSK	Receiver on	1	50	38000/2595	22.90	22.03	0.375	0.054	1.22	0.458	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.90	22.11	0.402	-0.090	1.20	0.482	/
		Right Tilt	0	QPSK	Receiver on	1	50	38000/2595	22.90	22.03	0.260	0.040	1.22	0.318	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.90	22.11	0.267	-0.033	1.20	0.320	/
	Second Antenna	Left cheek	0	QPSK	Receiver on	1	50	38150/2610	24.80	23.36	0.104	0.020	1.39	0.145	/
			0	QPSK	Receiver on	50%	25	37850/2580	23.80	22.31	0.084	0.099	1.41	0.118	/
		Left Tilt	0	QPSK	Receiver on	1	50	38150/2610	24.80	23.36	0.035	0.189	1.39	0.048	/
			0	QPSK	Receiver on	50%	25	37850/2580	23.80	22.31	0.028	0.078	1.41	0.040	/
		Right cheek	0	QPSK	Receiver on	1	50	38150/2610	24.80	23.36	0.049	0.197	1.39	0.069	/
			0	QPSK	Receiver on	50%	25	37850/2580	23.80	22.31	0.033	0.172	1.41	0.047	/
		Right Tilt	0	QPSK	Receiver on	1	50	38150/2610	24.80	23.36	0.039	0.033	1.39	0.054	/
			0	QPSK	Receiver on	50%	25	37850/2580	23.80	22.31	0.027	0.088	1.41	0.038	/
	Main Antenna	Left cheek Battery 2	0	QPSK	Receiver on	1	50	38000/2595	22.90	22.03	0.532	0.040	1.22	0.650	/
LTE 38 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	50	38000/2595	22.90	22.03	0.615	0.012	1.22	0.751	39
	Second Antenna	Left cheek	0	QPSK	Receiver on	1	50	38150/2610	24.80	23.36	0.082	0.021	1.39	0.114	/
LTE 66 (Original)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	50	132072/1720	24.20	23.56	0.097	-0.023	1.16	0.112	/
			0	QPSK	Receiver on	50%	25	132572/1770	23.20	22.55	0.086	-0.050	1.16	0.100	/
		Left Tilt	0	QPSK	Receiver on	1	50	132072/1720	24.20	23.56	0.443	0.030	1.16	0.513	/
			0	QPSK	Receiver on	50%	25	132572/1770	23.20	22.55	0.433	0.030	1.16	0.503	/
		Right cheek	0	QPSK	Receiver on	1	50	132072/1720	24.20	23.56	0.407	-0.020	1.16	0.472	/
			0	QPSK	Receiver on	50%	25	132572/1770	23.20	22.55	0.432	0.080	1.16	0.502	/
		Right Tilt	0	QPSK	Receiver on	1	50	132072/1720	24.20	23.56	0.485	-0.010	1.16	0.562	/
			0	QPSK	Receiver on	50%	25	132572/1770	23.20	22.55	0.533	0.000	1.16	0.619	/
	Second Antenna	Left cheek	0	QPSK	Receiver on	1	0	132322/1745	20.80	19.45	0.257	-0.090	1.36	0.351	/
			0	QPSK	Receiver on	50%	25	132572/1770	20.80	19.43	0.292	-0.040	1.37	0.400	/
		Left Tilt	0	QPSK	Receiver on	1	0	132322/1745	20.80	19.45	0.419	0.020	1.36	0.572	/
			0	QPSK	Receiver on	50%	25	132572/1770	20.80	19.43	0.479	-0.070	1.37	0.657	/
		Right cheek	0	QPSK	Receiver on	1	0	132322/1745	20.80	19.45	0.351	0.040	1.36	0.479	/
			0	QPSK	Receiver on	50%	25	132572/1770	20.80	19.43	0.409	0.020	1.37	0.561	/

		Right Tilt	0	QPSK	Receiver on	1	0	132322/1745	20.80	19.45	0.509	-0.030	1.36	0.695	/
			0	QPSK	Receiver on	50%	25	132572/1770	20.80	19.43	0.577	-0.020	1.37	0.791	40
	Second Antenna	Right Tilt Battery 2	0	QPSK	Receiver on	50%	25	132572/1770	20.80	19.43	0.530	0.170	1.37	0.727	/
LTE66 (Variant)	Main Antenna	Left cheek	0	QPSK	Receiver on	1	50	132072/1720	24.20	23.56	0.114	0.047	1.16	0.132	/
	Second Antenna	Right Tilt	0	QPSK	Receiver on	50%	25	132572/1770	20.80	19.43	0.549	0.010	1.37	0.753	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	Duty Cycle	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G (Original)	Wi-Fi	Left cheek	0	802.11b	Receiver on	99.0%	1/2412	16.00	14.35	0.298	0.052	1.48	0.440	/
		Left Tilt	0	802.11b	Receiver on	99.0%	1/2412	16.00	14.35	0.141	-0.155	1.48	0.208	/
		Right cheek	0	802.11b	Receiver on	99.0%	1/2412	16.00	14.35	0.122	-0.149	1.48	0.180	/
		Right Tilt	0	802.11b	Receiver on	99.0%	1/2412	16.00	14.35	0.054	0.069	1.48	0.080	/
		Left cheek	0	802.11g	Receiver on	98.0%	2/2417	16.00	14.69	0.283	0.139	1.38	0.390	/
		Left Tilt	0	802.11g	Receiver on	98.0%	2/2417	16.00	14.69	0.102	-0.110	1.38	0.141	/
		Right cheek	0	802.11g	Receiver on	98.0%	2/2417	16.00	14.69	0.098	0.030	1.38	0.135	/
		Right Tilt	0	802.11g	Receiver on	98.0%	2/2417	16.00	14.69	0.051	0.050	1.38	0.070	/
		Left cheek Battery 2	0	802.11b	Receiver on	99.0%	1/2412	16.00	14.35	0.324	0.060	1.48	0.479	/
2.4G (Variant)	Wi-Fi	Left cheek	0	802.11b	Receiver on	99.0%	1/2412	16.00	14.35	0.414	-0.024	1.48	0.611	41
U-NII-1 (Original)	Wi-Fi	Left cheek	0	802.11a	Receiver on	98.0%	40/5200	15.00	13.75	0.234	0.113	1.36	0.318	/
		Left Tilt	0	802.11a	Receiver on	98.0%	40/5200	15.00	13.75	0.285	0.061	1.36	0.388	/
		Right cheek	0	802.11a	Receiver on	98.0%	40/5200	15.00	13.75	0.229	0.030	1.36	0.312	/
		Right Tilt	0	802.11a	Receiver on	98.0%	40/5200	15.00	13.75	0.299	0.039	1.36	0.407	/
		Right Tilt Battery 2	0	802.11a	Receiver on	98.0%	40/5200	15.00	13.75	0.308	0.014	1.36	0.419	/
U-NII-1 (Variant)	Wi-Fi	Right Tilt	0	802.11a	Receiver on	98.0%	40/5200	15.00	13.75	0.268	0.060	1.36	0.365	/
U-NII-2A (Original)	Wi-Fi	Left cheek	0	802.11a	Receiver on	98.0%	60/5300	15.00	13.58	0.309	0.046	1.42	0.437	/
		Left Tilt	0	802.11a	Receiver on	98.0%	60/5300	15.00	13.58	0.379	0.067	1.42	0.536	/
		Right cheek	0	802.11a	Receiver on	98.0%	60/5300	15.00	13.58	0.305	0.110	1.42	0.432	/
		Right Tilt	0	802.11a	Receiver on	98.0%	60/5300	15.00	13.58	0.415	0.029	1.42	0.587	/
		Right Tilt Battery 2	0	802.11a	Receiver on	98.0%	60/5300	15.00	13.58	0.362	-0.017	1.42	0.512	/
U-NII-2A (Variant)	Wi-Fi	Right Tilt	0	802.11a	Receiver on	98.0%	60/5300	15.00	13.58	0.378	0.127	1.42	0.535	/
U-NII-2C (Original)	Wi-Fi	Left cheek	0	802.11ac-VHT80	Receiver on	93.0%	122/5610	15.00	13.04	0.231	0.059	1.69	0.390	/
		Left Tilt	0	802.11ac-VHT80	Receiver on	93.0%	122/5610	15.00	13.04	0.350	0.041	1.69	0.591	/
		Right cheek	0	802.11ac-VHT80	Receiver on	93.0%	122/5610	15.00	13.04	0.271	-0.025	1.69	0.458	/

		Left Tilt	0	802.11ac-VHT80	Receiver on	93.0%	122/5610	15.00	13.04	0.342	0.049	1.69	0.577	/
		Left Tilt Battery 2	0	802.11ac-VHT80	Receiver on	93.0%	122/5610	15.00	13.04	0.301	-0.010	1.69	0.508	/
U-NII-2C (Variant)	Wi-Fi	Left Tilt	0	802.11ac-VHT80	Receiver on	93.0%	122/5610	15.00	13.04	0.357	0.035	1.69	0.603	/
U-NII-3 (Original)	Wi-Fi	Left cheek	0	802.11ac-VHT80	Receiver on	93.0%	155/5775	15.00	13.48	0.346	-0.028	1.53	0.528	/
		Left Tilt	0	802.11ac-VHT80	Receiver on	93.0%	155/5775	15.00	13.48	0.463	0.053	1.53	0.706	42
		Right cheek	0	802.11ac-VHT80	Receiver on	93.0%	155/5775	15.00	13.48	0.380	0.120	1.53	0.580	/
		Right Tilt	0	802.11ac-VHT80	Receiver on	93.0%	155/5775	15.00	13.48	0.335	-0.020	1.53	0.511	/
		Left Tilt Battery 2	0	802.11ac-VHT80	Receiver on	93.0%	155/5775	15.00	13.48	0.389	-0.033	1.53	0.594	/
U-NII-3 (Variant)	Wi-Fi	Left Tilt	0	802.11ac-VHT80	Receiver on	93.0%	155/5775	15.00	13.48	0.434	0.193	1.53	0.662	/
Bluetooth (Original)	BT	Left cheek	0	DH5	-	77.0%	0/2402	13.50	11.71	0.182	0.105	1.96	0.357	/
		Left Tilt	0	DH5	-	77.0%	0/2402	13.50	11.71	0.058	0.070	1.96	0.115	/
		Right cheek	0	DH5	-	77.0%	0/2402	13.50	11.71	0.047	0.021	1.96	0.092	/
		Right Tilt	0	DH5	-	77.0%	0/2402	13.50	11.71	0.030	0.000	1.96	0.059	/
		Left cheek Battery 2	0	DH5	-	77.0%	0/2402	13.50	11.71	0.153	0.071	1.96	0.300	/
Bluetooth (Variant)	BT	Left cheek	0	DH5	-	77.0%	0/2402	13.50	11.71	0.202	0.101	1.96	0.396	43

Body SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850 (Original)	Main Antenna	Back Side	15	GSM	Body SAR	-	-	190/836.6	33.80	33.12	0.283	0.100	1.17	0.331	/
		Front Side	15	GSM	Body SAR	-	-	190/836.6	33.80	33.12	0.230	0.024	1.17	0.269	/
		Back Side Battery 2	15	GSM	Body SAR	-	-	190/836.6	33.80	33.12	0.294	-0.039	1.17	0.344	/
GSM 850 (Variant)	Main Antenna	Back Side	15	GSM	Body SAR	-	-	190/836.6	33.80	33.12	0.321	0.011	1.17	0.375	44
GSM 1900 (Original)	Main Antenna	Back Side	15	GSM	Body SAR	-	-	661/1880	30.80	29.91	0.201	-0.029	1.23	0.247	/
		Front Side	15	GSM	Body SAR	-	-	661/1880	30.80	29.91	0.135	-0.020	1.23	0.166	/
		Back Side Battery 2	15	GSM	Body SAR	-	-	661/1880	30.80	29.91	0.226	0.030	1.23	0.277	45
GSM 1900 (Variant)	Main Antenna	Back Side	15	GSM	Body SAR	-	-	661/1880	30.80	29.91	0.182	0.021	1.23	0.223	/
WCDMA II (Original)	Main Antenna	Back Side	15	RMC	Body SAR	-	-	9400/1880	24.40	23.33	0.449	-0.037	1.28	0.574	46
		Front Side	15	RMC	Body SAR	-	-	9400/1880	24.40	23.33	0.261	0.070	1.28	0.334	/
		Back Side Battery 2	15	RMC	Body SAR	-	-	9400/1880	24.40	23.33	0.375	0.000	1.28	0.480	/
WCDMA II (Variant)	Main Antenna	Back Side	15	RMC	Body SAR	-	-	9400/1880	23.80	22.71	0.228	0.010	1.29	0.293	/
	Second Antenna	Back Side	15	RMC	Body SAR	-	-	9400/1880	21.80	20.63	0.283	-0.021	1.31	0.370	/
		Front Side	15	RMC	Body SAR	-	-	9400/1880	21.80	20.63	0.186	0.026	1.31	0.244	/
WCDMA IV (Original)	Main Antenna	Back Side	15	RMC	Body SAR	-	-	1413/1732.6	23.40	22.39	0.217	-0.080	1.26	0.274	/
		Front Side	15	RMC	Body SAR	-	-	1413/1732.6	23.40	22.39	0.164	0.040	1.26	0.207	/
		Back Side Battery 2	15	RMC	Body SAR	-	-	1413/1732.6	23.40	22.39	0.258	0.023	1.26	0.326	47
WCDMA IV (Variant)	Main Antenna	Back Side	15	RMC	Body SAR	-	-	1413/1732.6	23.40	22.39	0.243	0.020	1.26	0.307	/
	Second Antenna	Back Side	15	RMC	Body SAR	-	-	1413/1732.6	21.00	19.50	0.166	0.010	1.41	0.234	/
		Front Side	15	RMC	Body SAR	-	-	1413/1732.6	21.00	19.50	0.112	0.060	1.41	0.158	/
LTE 2 (Original)	Main Antenna	Back Side	15	QPSK	Body SAR	1	0	18900/1880	24.40	23.67	0.476	-0.030	1.18	0.563	48
			15	QPSK	Body SAR	50%	0	18900/1880	23.40	22.54	0.391	0.029	1.22	0.477	/
		Front Side	15	QPSK	Body SAR	1	0	18900/1880	24.40	23.67	0.315	0.050	1.18	0.373	/
			15	QPSK	Body SAR	50%	0	18900/1880	23.40	22.54	0.267	-0.032	1.22	0.325	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	0	18900/1880	21.80	20.78	0.194	0.012	1.26	0.245	/
			15	QPSK	Body SAR	50%	0	19100/1900	21.80	20.83	0.223	0.018	1.25	0.279	/
		Front Side	15	QPSK	Body SAR	1	0	18900/1880	21.80	20.78	0.125	-0.090	1.26	0.158	/
			15	QPSK	Body SAR	50%	0	19100/1900	21.80	20.83	0.119	0.024	1.25	0.149	/
	Main	Back Side	15	QPSK	Body SAR	1	0	18900/1880	24.40	23.67	0.452	-0.025	1.18	0.535	/

	Antenna	Battery 2													
LTE 2 (Variant)	Main Antenna	Back Side	15	QPSK	Body SAR	1	0	18900/1880	23.80	23.24	0.286	-0.021	1.14	0.325	/
	Second Antenna	Back Side	15	QPSK	Body SAR	50%	0	19100/1900	21.80	20.83	0.199	0.120	1.25	0.249	/
LTE 4 (Original)	Main Antenna	Back Side	15	QPSK	Body SAR	1	0	20300/1745	23.40	22.88	0.325	0.060	1.13	0.366	/
			15	QPSK	Body SAR	50%	0	20300/1745	23.20	22.43	0.289	0.015	1.19	0.345	/
		Front Side	15	QPSK	Body SAR	1	0	20300/1745	23.40	22.88	0.236	-0.080	1.13	0.266	/
			15	QPSK	Body SAR	50%	0	20300/1745	23.20	22.43	0.221	0.000	1.19	0.264	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	0	20300/1745	21.00	19.96	0.201	0.020	1.27	0.255	/
			15	QPSK	Body SAR	50%	0	20175/1732.5	21.00	19.91	0.176	0.010	1.29	0.226	/
		Front Side	15	QPSK	Body SAR	1	0	20300/1745	21.00	19.96	0.102	0.038	1.27	0.130	/
			15	QPSK	Body SAR	50%	0	20175/1732.5	21.00	19.91	0.088	0.120	1.29	0.113	/
	Main Antenna	Back Side Battery 2	15	QPSK	Body SAR	1	0	20300/1745	23.40	22.88	0.398	0.011	1.13	0.449	49
LTE 4 (Variant)	Main Antenna	Back Side	15	QPSK	Body SAR	1	0	20300/1745	23.40	22.88	0.280	0.015	1.13	0.316	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	0	20300/1745	21.00	19.96	0.186	0.015	1.27	0.236	/
LTE 7 (Original)	Main Antenna	Back Side	15	QPSK	Body SAR	1	50	20850/2510	22.80	22.32	0.453	-0.170	1.12	0.506	50
			15	QPSK	Body SAR	50%	50	20850/2510	22.80	21.95	0.421	0.040	1.22	0.512	/
		Front Side	15	QPSK	Body SAR	1	50	20850/2510	22.80	22.32	0.248	0.020	1.12	0.277	/
			15	QPSK	Body SAR	50%	50	20850/2510	22.80	21.95	0.183	0.090	1.22	0.223	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	99	21100/2535	24.40	23.19	0.188	0.031	1.32	0.248	/
			15	QPSK	Body SAR	50%	0	20850/2510	23.40	22.08	0.150	0.018	1.36	0.203	/
		Front Side	15	QPSK	Body SAR	1	99	21100/2535	24.40	23.19	0.094	0.060	1.32	0.124	/
			15	QPSK	Body SAR	50%	0	20850/2510	23.40	22.08	0.078	0.027	1.36	0.106	/
	Main Antenna	Back Side Battery 2	15	QPSK	Body SAR	50%	50	20850/2510	22.80	21.95	0.426	0.018	1.22	0.518	/
LTE 7 (Variant)	Main Antenna	Back Side	15	QPSK	Body SAR	50%	50	20850/2510	22.00	21.28	0.406	0.120	1.18	0.479	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	99	21100/2535	23.40	21.96	0.155	0.020	1.39	0.216	/
LTE 38 (Original)	Main Antenna	Back Side	15	QPSK	Body SAR	1	50	37850/2580	24.50	23.30	0.314	0.025	1.32	0.414	/
			15	QPSK	Body SAR	50%	0	37850/2580	23.90	22.33	0.252	0.018	1.44	0.362	/
		Front Side	15	QPSK	Body SAR	1	50	37850/2580	24.50	23.30	0.143	0.022	1.32	0.189	/
			15	QPSK	Body SAR	50%	0	37850/2580	23.90	22.33	0.113	0.049	1.44	0.162	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	50	38150/2610	24.80	23.36	0.167	-0.010	1.39	0.233	/
			15	QPSK	Body SAR	50%	25	37850/2580	23.80	22.31	0.116	0.034	1.41	0.163	/
		Front Side	15	QPSK	Body SAR	1	50	38150/2610	24.80	23.36	0.090	0.000	1.39	0.125	/
			15	QPSK	Body SAR	50%	25	37850/2580	23.80	22.31	0.066	0.026	1.41	0.093	/
	Main Antenna	Back Side Battery 2	15	QPSK	Body SAR	1	50	37850/2580	24.50	23.30	0.352	-0.012	1.32	0.464	/

LTE 38 (Variant)	Main Antenna	Back Side	15	QPSK	Body SAR	1	50	37850/2580	24.50	23.30	0.376	-0.021	1.32	0.496	51
	Second Antenna	Back Side	15	QPSK	Body SAR	1	50	38150/2610	24.80	23.36	0.106	0.009	1.39	0.148	/
LTE 66 (Original)	Main Antenna	Back Side	15	QPSK	Body SAR	1	50	132072/1720	23.40	23.05	0.278	0.010	1.08	0.301	52
			15	QPSK	Body SAR	50%	0	132572/1770	23.20	22.12	0.217	0.050	1.28	0.278	/
		Front Side	15	QPSK	Body SAR	1	50	132072/1720	23.40	23.05	0.221	-0.010	1.08	0.240	/
			15	QPSK	Body SAR	50%	0	132572/1770	23.20	22.12	0.169	0.050	1.28	0.217	/
	Second Antenna	Back Side	15	QPSK	Body SAR	1	50	132072/1720	21.00	19.57	0.159	0.098	1.39	0.221	/
			15	QPSK	Body SAR	50%	25	132572/1770	21.00	19.55	0.180	-0.020	1.40	0.251	/
		Front Side	15	QPSK	Body SAR	1	50	132072/1720	21.00	19.57	0.055	0.023	1.39	0.076	/
			15	QPSK	Body SAR	50%	25	132572/1770	21.00	19.55	0.061	-0.025	1.40	0.085	/
	Main Antenna	Back Side Battery 2	15	QPSK	Body SAR	1	50	132072/1720	23.40	23.05	0.226	0.048	1.08	0.245	/
LTE 66 (Variant)	Main Antenna	Back Side	15	QPSK	Body SAR	1	50	132072/1720	23.40	23.05	0.247	-0.021	1.08	0.268	/
	Second Antenna	Back Side	15	QPSK	Body SAR	50%	25	132572/1770	21.00	19.55	0.175	-0.015	1.40	0.244	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	Duty Cycle	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
U-NII-1 (Original)	Wi-Fi	Back Side	15	802.11a	Receiver off	98.0%	40/5200	18.50	18.35	0.532	0.060	1.06	0.562	/
		Front Side	15	802.11a	Receiver off	98.0%	40/5200	18.50	18.35	0.147	0.011	1.06	0.155	/
		Back Side Battery 2	15	802.11a	Receiver off	98.0%	40/5200	18.50	18.35	0.440	0.047	1.06	0.465	/
U-NII-1 (Variant)	Wi-Fi	Back Side	15	802.11a	Receiver off	98.0%	40/5200	18.50	18.35	0.555	0.021	1.06	0.586	/
U-NII-2A (Original)	Wi-Fi	Back Side	15	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.515	-0.024	1.06	0.544	/
		Front Side	15	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.142	0.080	1.06	0.150	/
		Back Side Battery 2	15	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.486	0.031	1.06	0.513	/
U-NII-2A (Variant)	Wi-Fi	Back Side	15	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.551	-0.023	1.06	0.582	/
U-NII-2C (Original)	Wi-Fi	Back Side	15	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.503	0.010	1.12	0.563	/
		Front Side	15	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.132	0.000	1.12	0.148	/
		Back Side Battery 2	15	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.426	0.041	1.12	0.477	/
U-NII-2C (Variant)	Wi-Fi	Back Side	15	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.221	-0.012	1.12	0.247	
U-NII-3 (Original)	Wi-Fi	Back Side	15	802.11a	Receiver off	98.0%	149/5745	18.50	18.03	0.522	0.035	1.14	0.594	/
		Front Side	15	802.11a	Receiver off	98.0%	149/5745	18.50	18.03	0.134	0.017	1.14	0.152	/
		Back Side Battery 2	15	802.11a	Receiver off	98.0%	149/5745	18.50	18.03	0.532	-0.010	1.14	0.605	/

U-NII-3 (Variant)	Wi-Fi	Back Side	15	802.11a	Receiver off	98.0%	149/5745	18.50	18.03	0.577	0.075	1.14	0.656	53

Hotspot SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM850 (Original)	Main Antenna	Back Side	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.172	-0.140	1.32	0.228	/
		Front Side	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.139	0.044	1.32	0.184	/
		Left Edge	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.000	0.000	1.32	0.000	/
		Right Edge	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.081	-0.080	1.32	0.107	/
		Top Edge	10	2TX Slots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.090	0.027	1.32	0.119	/
		Back Side Battery 2	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.235	0.018	1.32	0.311	54
GSM850 (Variant)	Main Antenna	Back Side	10	2TX Slots	Hotspot	-	-	190/836.6	27.80	26.58	0.205	0.010	1.32	0.271	
GSM1900 (Original)	Main Antenna	Back Side	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.356	0.018	1.34	0.477	/
		Front Side	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.214	0.023	1.34	0.287	/
		Left Edge	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.074	0.030	1.34	0.099	/
		Right Edge	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.071	-0.170	1.34	0.095	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.420	NA	N/A	N/A	/
		Bottom Edge	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.505	0.031	1.34	0.677	/
	Main Antenna	Bottom Edge Battery 2	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.495	-0.120	1.34	0.663	/
GSM1900 (Variant)	Main Antenna	Bottom Edge	10	2TX Slots	Hotspot	-	-	661/1880	27.80	26.53	0.582	0.021	1.34	0.780	55
WCDMA II (Original)	Main Antenna	Back Side	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.412	0.179	1.29	0.530	/
		Front Side	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.389	0.182	1.29	0.500	/
		Left Edge	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.121	0.140	1.29	0.156	/
		Right Edge	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.097	0.020	1.29	0.125	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.693	-0.070	1.29	0.891	56
		Bottom Edge	10	RMC	Hotspot	-	-	9262/1852.4	22.40	21.04	0.642	0.024	1.37	0.878	/
		Bottom Edge	10	RMC	Hotspot	-	-	9538/1907.6	22.40	21.22	0.678	-0.080	1.31	0.890	/
	Second Antenna	Back Side	10	RMC	Hotspot	-	-	9400/1880	20.70	19.34	0.317	0.041	1.37	0.434	/
		Front Side	10	RMC	Hotspot	-	-	9400/1880	20.70	19.34	0.137	0.032	1.37	0.187	/
		Left Edge	10	RMC	Hotspot	-	-	9400/1880	20.70	19.34	0.081	0.015	1.37	0.111	/
		Right Edge	10	RMC	Hotspot	-	-	9400/1880	20.70	19.34	0.082	0.018	1.37	0.112	/
		Top Edge	10	RMC	Hotspot	-	-	9400/1880	20.70	19.34	0.465	0.025	1.37	0.636	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main Antenna	Bottom Edge Battery 2	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.658	0.011	1.29	0.846	/
WCDMA II (Variant)	Main Antenna	Bottom Edge	10	RMC	Hotspot	-	-	9400/1880	22.40	21.31	0.557	-0.010	1.29	0.716	/
	Second Antenna	Top Edge	10	RMC	Hotspot	-	-	9400/1880	20.70	19.34	0.345	-0.023	1.37	0.472	/

WCDMA IV (Original)	Main Antenna	Back Side	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.652	0.154	1.22	0.798	/
		Front Side	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.334	-0.050	1.22	0.409	/
		Left Edge	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.131	-0.140	1.22	0.160	/
		Right Edge	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.102	-0.026	1.22	0.125	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.804	0.140	1.22	0.985	57
			10	RMC	Hotspot	-	-	1312/1712.4	22.70	21.70	0.769	0.000	1.26	0.968	/
			10	RMC	Hotspot	-	-	1513/1752.6	22.70	21.78	0.748	-0.011	1.24	0.924	/
	Second Antenna	Back Side	10	RMC	Hotspot	-	-	1413/1732.6	20.80	19.69	0.256	0.038	1.29	0.331	/
		Front Side	10	RMC	Hotspot	-	-	1413/1732.6	20.80	19.69	0.119	0.025	1.29	0.154	/
		Left Edge	10	RMC	Hotspot	-	-	1413/1732.6	20.80	19.69	0.063	0.030	1.29	0.081	/
		Right Edge	10	RMC	Hotspot	-	-	1413/1732.6	20.80	19.69	0.032	0.000	1.29	0.041	/
		Top Edge	10	RMC	Hotspot	-	-	1413/1732.6	20.80	19.69	0.466	0.070	1.29	0.602	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main Antenna	Bottom Edge Battery 2	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.681	0.059	1.22	0.834	/
WCDMA IV (Variant)	Main Antenna	Bottom Edge	10	RMC	Hotspot	-	-	1413/1732.6	22.70	21.82	0.425	0.012	1.22	0.520	/
	Second Antenna	Top Edge	10	RMC	Hotspot	-	-	1413/1732.6	17.50	16.61	0.209	0.020	1.23	0.257	/
WCDMA V (Original)	Main Antenna	Back Side	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.525	-0.180	1.30	0.684	/
		Front Side	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.451	-0.180	1.30	0.588	/
		Left Edge	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.070	-0.020	1.30	0.091	/
		Right Edge	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.071	-0.030	1.30	0.093	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.258	-0.100	1.30	0.336	/
		Back Side Battery 2	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.539	0.028	1.30	0.702	58
WCDMA V (Variant)	Main Antenna	Back Side	10	RMC	Hotspot	-	-	4183/836.6	25.30	24.15	0.457	0.021	1.30	0.596	/
LTE 2 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	0	19100/1900	22.40	22.08	0.467	0.047	1.08	0.503	/
			10	QPSK	Hotspot	50%	0	18700/1860	22.40	21.87	0.464	-0.024	1.13	0.524	/
		Front Side	10	QPSK	Hotspot	1	0	19100/1900	22.40	22.08	0.309	0.018	1.08	0.333	/
			10	QPSK	Hotspot	50%	0	18700/1860	22.40	21.87	0.314	0.001	1.13	0.355	/
		Left Edge	10	QPSK	Hotspot	1	0	19100/1900	22.40	22.08	0.105	0.041	1.08	0.113	/
			10	QPSK	Hotspot	50%	0	18700/1860	22.40	21.87	0.131	-0.079	1.13	0.148	/
		Right Edge	10	QPSK	Hotspot	1	0	19100/1900	22.40	22.08	0.044	0.046	1.08	0.047	/
			10	QPSK	Hotspot	50%	0	18700/1860	22.40	21.87	0.102	0.015	1.13	0.115	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	0	19100/1900	22.40	22.08	0.732	0.040	1.08	0.788	/
			10	QPSK	Hotspot	50%	0	18700/1860	22.40	21.87	0.727	0.060	1.13	0.821	/
			10	QPSK	Hotspot	50%	0	18900/1880	22.40	21.58	0.779	0.110	1.21	0.941	/

			10	QPSK	Hotspot	50%	0	19100/1900	22.40	21.47	0.697	0.160	1.24	0.863	/
			10	QPSK	Hotspot	100%	0	18700/1860	22.40	21.65	0.782	0.080	1.19	0.929	59
			10	QPSK	Hotspot	100%	0	18900/1880	22.40	21.55	0.759	0.000	1.22	0.923	/
			10	QPSK	Hotspot	100%	0	19100/1900	22.40	21.40	0.718	0.028	1.26	0.904	/
		Back Side	10	QPSK	Hotspot	1	0	18900/1880	20.70	19.54	0.336	-0.022	1.31	0.439	/
			10	QPSK	Hotspot	50%	0	18900/1880	20.70	19.48	0.339	0.039	1.32	0.449	/
		Front Side	10	QPSK	Hotspot	1	0	18900/1880	20.70	19.54	0.139	0.068	1.31	0.182	/
			10	QPSK	Hotspot	50%	0	18900/1880	20.70	19.48	0.140	0.021	1.32	0.185	/
		Left Edge	10	QPSK	Hotspot	1	0	18900/1880	20.70	19.54	0.095	0.006	1.31	0.124	/
	Second Antenna		10	QPSK	Hotspot	50%	0	18900/1880	20.70	19.48	0.086	-0.075	1.32	0.114	/
		Right Edge	10	QPSK	Hotspot	1	0	18900/1880	20.70	19.54	0.045	0.004	1.31	0.059	/
			10	QPSK	Hotspot	50%	0	18900/1880	20.70	19.48	0.047	0.025	1.32	0.062	/
		Top Edge	10	QPSK	Hotspot	1	0	18900/1880	20.70	19.54	0.412	0.120	1.31	0.538	/
			10	QPSK	Hotspot	50%	0	18900/1880	20.70	19.48	0.450	0.000	1.32	0.596	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main Antenna	Bottom Edge Battery 2	10	QPSK	Hotspot	50%	0	18900/1880	22.40	21.58	0.752	0.032	1.21	0.908	/
LTE 2 (Variant)	Main Antenna	Bottom Edge	10	QPSK	Hotspot	50%	0	18900/1880	22.40	21.58	0.620	0.023	1.21	0.749	/
	Second Antenna	Top Edge	10	QPSK	Hotspot	50%	0	18900/1880	20.70	19.48	0.374	0.010	1.32	0.495	/
LTE 4 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	0	20300/1745	22.70	22.17	0.418	0.011	1.13	0.472	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	22.70	21.75	0.427	0.035	1.24	0.531	/
		Front Side	10	QPSK	Hotspot	1	0	20300/1745	22.70	22.17	0.312	0.026	1.13	0.352	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	22.70	21.75	0.304	-0.018	1.24	0.378	/
		Left Edge	10	QPSK	Hotspot	1	0	20300/1745	22.70	22.17	0.174	0.024	1.13	0.197	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	22.70	21.75	0.120	0.090	1.24	0.149	/
		Right Edge	10	QPSK	Hotspot	1	0	20300/1745	22.70	22.17	0.050	0.021	1.13	0.056	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	22.70	21.75	0.091	0.011	1.24	0.113	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	0	20300/1745	22.70	22.17	0.700	-0.090	1.13	0.791	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	22.70	21.75	0.719	-0.150	1.24	0.895	/
			10	QPSK	Hotspot	50%	0	20050/1720	22.70	21.71	0.690	0.100	1.26	0.867	/
			10	QPSK	Hotspot	50%	50	20300/1745	22.70	21.56	0.759	0.070	1.30	0.987	60
			10	QPSK	Hotspot	100%	0	20050/1720	22.70	21.49	0.685	0.012	1.32	0.905	/
			10	QPSK	Hotspot	100%	0	20175/1732.5	22.70	21.86	0.756	0.010	1.21	0.917	/
			10	QPSK	Hotspot	100%	0	20300/1745	22.70	21.58	0.729	-0.011	1.29	0.943	/
		Bottom Edge repeat	10	QPSK	Hotspot	50%	50	20300/1745	22.70	21.56	0.721	-0.043	1.30	0.937	/
	Second Antenna	Back Side	10	QPSK	Hotspot	1	0	20175/1732.5	20.80	19.64	0.234	0.022	1.31	0.306	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	20.80	19.75	0.279	0.030	1.27	0.355	/

		Front Side	10	QPSK	Hotspot	1	0	20175/1732.5	20.80	19.64	0.122	0.018	1.31	0.159	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	20.80	19.75	0.121	0.040	1.27	0.154	/
		Left Edge	10	QPSK	Hotspot	1	0	20175/1732.5	20.80	19.64	0.060	0.016	1.31	0.078	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	20.80	19.75	0.065	0.027	1.27	0.083	/
		Right Edge	10	QPSK	Hotspot	1	0	20175/1732.5	20.80	19.64	0.044	-0.080	1.31	0.057	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	20.80	19.75	0.041	0.022	1.27	0.052	/
		Top Edge	10	QPSK	Hotspot	1	0	20175/1732.5	20.80	19.64	0.402	-0.030	1.31	0.525	/
			10	QPSK	Hotspot	50%	0	20175/1732.5	20.80	19.75	0.423	0.100	1.27	0.539	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main Antenna	Bottom Edge Battery 2	10	QPSK	Hotspot	50%	50	20300/1745	22.70	21.56	0.696	-0.025	1.30	0.905	/
LTE 4 (Variant)	Main Antenna	Bottom Edge	10	QPSK	Hotspot	50%	50	20300/1745	22.70	21.56	0.616	0.010	1.30	0.801	/
	Second Antenna	Top Edge	10	QPSK	Hotspot	50%	0	20175/1732.5	17.50	16.71	0.224	0.012	1.20	0.269	/
LTE 5 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.535	-0.067	1.22	0.651	61
			10	QPSK	Hotspot	50%	0	20600/844	24.30	23.58	0.370	0.028	1.18	0.437	/
		Front Side	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.401	0.011	1.22	0.488	/
			10	QPSK	Hotspot	50%	0	20600/844	24.30	23.58	0.322	0.032	1.18	0.380	/
		Left Edge	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.099	-0.015	1.22	0.120	/
			10	QPSK	Hotspot	50%	0	20600/844	24.30	23.58	0.127	0.040	1.18	0.150	/
		Right Edge	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.274	0.010	1.22	0.333	/
			10	QPSK	Hotspot	50%	0	20600/844	24.30	23.58	0.195	0.028	1.18	0.230	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.250	0.017	1.22	0.304	/
			10	QPSK	Hotspot	50%	0	20600/844	24.30	23.58	0.197	0.020	1.18	0.233	/
		Back Side Battery 2	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.467	0.069	1.22	0.568	/
LTE 5 (Variant)	Main Antenna	Back Side	10	QPSK	Hotspot	1	25	20600/844	25.30	24.45	0.511	0.021	1.22	0.621	/
LTE 7 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	99	21100/2535	21.00	20.59	0.615	0.018	1.10	0.676	/
			10	QPSK	Hotspot	50%	50	21100/2535	21.00	20.38	0.576	-0.030	1.15	0.664	/
		Front Side	10	QPSK	Hotspot	1	99	21100/2535	21.00	20.59	0.299	0.021	1.10	0.329	/
			10	QPSK	Hotspot	50%	50	21100/2535	21.00	20.38	0.295	0.030	1.15	0.340	/
		Left Edge	10	QPSK	Hotspot	1	99	21100/2535	21.00	20.59	0.704	0.073	1.10	0.774	62
			10	QPSK	Hotspot	50%	50	21100/2535	21.00	20.38	0.684	0.011	1.15	0.789	/
		Right Edge	10	QPSK	Hotspot	1	99	21100/2535	21.00	20.59	0.000	0.000	1.10	0.000	/
			10	QPSK	Hotspot	50%	50	21100/2535	21.00	20.38	0.000	0.000	1.15	0.000	/
		Top Edge	10	QPSK	Hotspot	1	99	21100/2535	21.00	20.59	0.107	0.024	1.10	0.118	/
			10	QPSK	Hotspot	50%	50	21100/2535	21.00	20.38	0.094	0.019	1.15	0.108	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Second Antenna	Back Side	10	QPSK	Hotspot	1	99	21100/2535	24.40	23.19	0.404	0.022	1.32	0.534	/
			10	QPSK	Hotspot	50%	0	20850/2510	23.40	22.08	0.277	-0.030	1.36	0.375	/
		Front Side	10	QPSK	Hotspot	1	99	21100/2535	24.40	23.19	0.198	0.037	1.32	0.262	/
			10	QPSK	Hotspot	50%	0	20850/2510	23.40	22.08	0.138	0.018	1.36	0.187	/
		Left Edge	10	QPSK	Hotspot	1	99	21100/2535	24.40	23.19	0.073	0.021	1.32	0.096	/
			10	QPSK	Hotspot	50%	0	20850/2510	23.40	22.08	0.041	0.090	1.36	0.056	/
		Right Edge	10	QPSK	Hotspot	1	99	21100/2535	24.40	23.19	0.054	0.034	1.32	0.071	/
			10	QPSK	Hotspot	50%	0	20850/2510	23.40	22.08	0.038	0.070	1.36	0.051	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	99	21100/2535	24.40	23.19	0.595	0.080	1.32	0.786	/
			10	QPSK	Hotspot	50%	0	20850/2510	23.40	22.08	0.394	0.024	1.36	0.534	/
	Main Antenna	Left Edge Battery 2	10	QPSK	Hotspot	50%	50	21100/2535	21.00	20.38	0.667	0.053	1.15	0.769	/
LTE 7 (Variant)	Main Antenna	Left Edge	10	QPSK	Hotspot	50%	50	21100/2535	19.50	18.77	0.603	0.021	1.18	0.713	/
	Second Antenna	Bottom Edge	10	QPSK	Hotspot	1	99	21100/2535	21.40	20.04	0.346	0.010	1.37	0.473	/
LTE 13 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.356	0.130	1.42	0.506	63
			10	QPSK	Hotspot	50%	25	23230/782	24.00	22.39	0.182	0.028	1.45	0.264	/
		Front Side	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.298	-0.090	1.42	0.424	/
			10	QPSK	Hotspot	50%	25	23230/782	24.00	22.39	0.150	0.034	1.45	0.217	/
		Left Edge	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.191	0.012	1.42	0.272	/
			10	QPSK	Hotspot	50%	25	23230/782	24.00	22.39	0.070	0.040	1.45	0.101	/
		Right Edge	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.104	0.012	1.42	0.148	/
			10	QPSK	Hotspot	50%	25	23230/782	24.00	22.39	0.106	-0.010	1.45	0.154	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.247	0.030	1.42	0.351	/
			10	QPSK	Hotspot	50%	25	23230/782	24.00	22.39	0.101	0.090	1.45	0.146	/
		Back Side Battery 2	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.267	0.022	1.42	0.380	/
LTE 13 (Variant)	Main Antenna	Back Side	10	QPSK	Hotspot	1	0	23230/782	25.00	23.47	0.293	0.021	1.42	0.417	/
LTE 26 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.509	0.000	1.25	0.638	/
			10	QPSK	Hotspot	50%	0	26865/831.5	24.30	23.55	0.388	0.110	1.19	0.461	/
		Front Side	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.385	0.024	1.25	0.482	/
			10	QPSK	Hotspot	50%	0	26865/831.5	24.30	23.55	0.315	-0.060	1.19	0.374	/
		Left Edge	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.080	0.038	1.25	0.100	/
			10	QPSK	Hotspot	50%	0	26865/831.5	24.30	23.55	0.076	0.015	1.19	0.090	/
		Right Edge	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.149	0.024	1.25	0.187	/
			10	QPSK	Hotspot	50%	0	26865/831.5	24.30	23.55	0.118	0.019	1.19	0.140	/

		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.240	-0.033	1.25	0.301	/
			10	QPSK	Hotspot	50%	0	26865/831.5	24.30	23.55	0.196	0.048	1.19	0.233	/
		Back Side Battery 2	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.634	0.080	1.25	0.794	64
LTE 26 (Variant)	Main Antenna	Back Side	10	QPSK	Hotspot	1	38	26865/831.5	25.30	24.32	0.535	0.011	1.25	0.670	/
LTE 38 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	50	38000/2595	22.90	22.03	0.437	0.042	1.22	0.534	/
			10	QPSK	Hotspot	50%	0	37850/2580	22.90	22.11	0.515	0.026	1.20	0.618	/
		Front Side	10	QPSK	Hotspot	1	50	38000/2595	22.90	22.03	0.236	-0.010	1.22	0.288	/
			10	QPSK	Hotspot	50%	0	37850/2580	22.90	22.11	0.254	0.027	1.20	0.305	/
		Left Edge	10	QPSK	Hotspot	1	50	37850/2580	22.90	22.02	0.610	-0.034	1.22	0.747	/
			10	QPSK	Hotspot	1	50	38000/2595	22.90	22.03	0.659	0.098	1.22	0.805	65
			10	QPSK	Hotspot	1	50	38150/2610	22.90	21.90	0.637	-0.043	1.26	0.802	/
			10	QPSK	Hotspot	50%	0	37850/2580	22.90	22.11	0.649	0.019	1.20	0.778	/
		Right Edge	10	QPSK	Hotspot	1	50	38000/2595	22.90	22.03	0.000	0.040	1.22	0.000	/
			10	QPSK	Hotspot	50%	0	37850/2580	22.90	22.11	0.000	0.022	1.20	0.000	/
		Top Edge	10	QPSK	Hotspot	1	50	38000/2595	22.90	22.03	0.072	0.015	1.22	0.088	/
			10	QPSK	Hotspot	50%	0	37850/2580	22.90	22.11	0.061	0.060	1.20	0.073	/
		Bottom Edge	10	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Second Antenna	Back Side	10	QPSK	Hotspot	1	50	38150/2610	24.80	23.36	0.321	0.042	1.39	0.447	/
			10	QPSK	Hotspot	50%	25	37850/2580	23.80	22.31	0.231	0.011	1.41	0.326	/
		Front Side	10	QPSK	Hotspot	1	50	38150/2610	24.80	23.36	0.169	0.019	1.39	0.235	/
			10	QPSK	Hotspot	50%	25	37850/2580	23.80	22.31	0.120	-0.030	1.41	0.169	/
		Left Edge	10	QPSK	Hotspot	1	50	38150/2610	24.80	23.36	0.098	0.048	1.39	0.137	/
			10	QPSK	Hotspot	50%	25	37850/2580	23.80	22.31	0.045	0.021	1.41	0.063	/
		Right Edge	10	QPSK	Hotspot	1	50	38150/2610	24.80	23.36	0.047	0.030	1.39	0.065	/
			10	QPSK	Hotspot	50%	25	37850/2580	23.80	22.31	0.044	0.011	1.41	0.062	/
		Top Edge	10	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot	1	50	38150/2610	24.80	23.36	0.483	0.022	1.39	0.673	/
			10	QPSK	Hotspot	50%	25	37850/2580	23.80	22.31	0.337	0.060	1.41	0.475	/
	Main Antenna	Left Edge Battery 2	10	QPSK	Hotspot	1	50	38000/2595	22.90	22.03	0.584	0.019	1.22	0.714	/
LTE 38 (Variant)	Main Antenna	Left Edge	10	QPSK	Hotspot	1	50	38000/2595	21.40	20.60	0.408	0.021	1.20	0.491	
	Second Antenna	Bottom Edge	10	QPSK	Hotspot	1	50	38150/2610	21.80	20.06	0.183	0.011	1.49	0.273	
LTE 66 (Original)	Main Antenna	Back Side	10	QPSK	Hotspot	1	50	132572/1770	22.70	21.85	0.233	0.020	1.22	0.283	/
			10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.257	0.020	1.20	0.309	/
		Front Side	10	QPSK	Hotspot	1	50	132572/1770	22.70	21.85	0.232	-0.080	1.22	0.282	/

			10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.229	0.020	1.20	0.275	/
		Left Edge	10	QPSK	Hotspot	1	50	132572/1770	22.70	21.85	0.072	0.080	1.22	0.088	/
			10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.011	0.021	1.20	0.013	/
		Right Edge	10	QPSK	Hotspot	1	50	132572/1770	22.70	21.85	0.128	0.080	1.22	0.156	/
			10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.065	0.050	1.20	0.078	/
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	/
		Bottom Edge	10	QPSK	Hotspot	1	50	132572/1770	22.70	21.85	0.592	-0.010	1.22	0.720	/
			10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.664	0.050	1.20	0.798	66
	Second Antenna	Back Side	10	QPSK	Hotspot	1	0	132322/1745	20.80	19.45	0.302	0.020	1.36	0.412	/
			10	QPSK	Hotspot	50%	25	132572/1770	20.80	19.43	0.303	0.020	1.37	0.415	/
		Front Side	10	QPSK	Hotspot	1	0	132322/1745	20.80	19.45	0.130	-0.010	1.36	0.177	/
			10	QPSK	Hotspot	50%	25	132572/1770	20.80	19.43	0.144	-0.050	1.37	0.197	/
		Left Edge	10	QPSK	Hotspot	1	0	132322/1745	20.80	19.45	0.048	-0.020	1.36	0.065	/
			10	QPSK	Hotspot	50%	25	132572/1770	20.80	19.43	0.049	0.058	1.37	0.067	/
		Right Edge	10	QPSK	Hotspot	1	0	132322/1745	20.80	19.45	0.064	-0.024	1.36	0.087	/
			10	QPSK	Hotspot	50%	25	132572/1770	20.80	19.43	0.070	0.000	1.37	0.096	/
		Top Edge	10	QPSK	Hotspot	1	0	132322/1745	20.80	19.45	0.395	0.020	1.36	0.539	/
			10	QPSK	Hotspot	50%	25	132572/1770	20.80	19.43	0.458	0.020	1.37	0.628	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	/
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	/
	Main Antenna	Bottom Edge Battery 2	10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.538	0.061	1.20	0.647	/
LTE 66 (Variant)	Main Antenna	Bottom Edge	10	QPSK	Hotspot	50%	0	132072/1720	22.70	21.90	0.585	0.021	1.20	0.703	/
	Second Antenna	Top Edge	10	QPSK	Hotspot	50%	25	132572/1770	17.50	16.39	0.223	-0.021	1.29	0.288	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	Duty Cycle	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G (Original)	Wi-Fi	Back Side	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.427	0.080	1.14	0.487	/
		Front Side	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.312	-0.200	1.14	0.356	/
		Left Edge	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.000	0.000	1.14	0.000	/
		Right Edge	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.603	-0.090	1.14	0.687	67
		Top Edge	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.179	0.032	1.14	0.204	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side	10	802.11b	Receiver off	99.0%	1/2412	19.00	18.75	0.221	0.040	1.07	0.236	/
		Front Side	10	802.11b	Receiver off	99.0%	1/2412	19.00	18.75	0.158	0.028	1.07	0.169	/
		Left Edge	10	802.11b	Receiver off	99.0%	1/2412	19.00	18.75	0.000	0.000	1.07	0.000	/
		Right Edge	10	802.11b	Receiver off	99.0%	1/2412	19.00	18.75	0.327	0.140	1.07	0.350	/
		Top Edge	10	802.11b	Receiver off	99.0%	1/2412	19.00	18.75	0.067	0.016	1.07	0.072	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

		Right Edge Battery 2	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.548	0.110	1.14	0.625	/
2.4G (Variant)	Wi-Fi	Right Edge	10	802.11g	Receiver off	98.0%	6/2437	19.50	19.02	0.777	0.180	1.14	0.886	/
U-NII-1 (Original)	Wi-Fi	Back Side	10	802.11n HT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.431	0.021	1.06	0.455	/
		Front Side	10	802.11n HT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.121	0.035	1.06	0.128	/
		Left Edge	10	802.11n HT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.097	-0.051	1.06	0.102	/
		Right Edge	10	802.11n HT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.094	0.086	1.06	0.099	/
		Top Edge	10	802.11n HT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.489	0.091	1.06	0.516	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge Battery 2	10	802.11n HT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.452	-0.034	1.06	0.477	/
U-NII-1 (Variant)	Wi-Fi	Top Edge	10	802.11nHT40	Receiver off + Hotspot	96.0%	46/5230	17.50	17.44	0.506	0.010	1.06	0.534	/
U-NII-3 (Original)	Wi-Fi	Back Side	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.710	-0.150	1.11	0.791	/
		Front Side	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.155	0.052	1.11	0.173	/
		Left Edge	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.175	-0.034	1.11	0.195	/
		Right Edge	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.180	0.055	1.11	0.200	/
		Top Edge	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.786	0.021	1.11	0.875	68
		Top Edge	10	802.11a	Receiver off + Hotspot	98.0%	157/5785	17.50	16.91	0.742	0.012	1.17	0.867	/
		Top Edge	10	802.11a	Receiver off + Hotspot	98.0%	165/5825	17.50	16.47	0.669	-0.034	1.29	0.865	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge Battery 2	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.754	0.024	1.11	0.840	/
U-NII-3 (Variant)	Wi-Fi	Top Edge	10	802.11a	Receiver off + Hotspot	98.0%	149/5745	17.50	17.12	0.733	0.011	1.11	0.816	/
Bluetooth (Original)	BT	Back Side	10	DH5	-	77.0%	0/2402	13.50	11.71	0.070	-0.047	1.96	0.136	/
		Front Side	10	DH5	-	77.0%	0/2402	13.50	11.71	0.028	0.025	1.96	0.055	/
		Left Edge	10	DH5	-	77.0%	0/2402	13.50	11.71	0.000	0.000	1.96	0.000	/
		Right Edge	10	DH5	-	77.0%	0/2402	13.50	11.71	0.046	0.030	1.96	0.090	/
		Top Edge	10	DH5	-	77.0%	0/2402	13.50	11.71	0.016	0.012	1.96	0.031	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

		Back Side Battery 2	10	DH5	-	77.0%	0/2402	13.50	11.71	0.078	0.018	1.96	0.153	/
Bluetooth (Variant)	BT	Back Side	10	DH5	-	77.0%	0/2402	13.50	11.71	0.086	0.030	1.96	0.168	69

Product Specific 10-g SAR Evaluation

Band	Antenna	Test Position	Mode	Power Reduction	RB	offset	Channel Frequency(MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g	Scaling Factor	Report SAR1g	SAR test
GSM850 (Original)	Main Antenna	Back Side	2TX Slots	Hotspot	-	-	190/836.6	30.80	27.80	0.228	2.00	0.454	NO
		Front Side	2TX Slots	Hotspot	-	-	190/836.6	30.80	27.80	0.184	2.00	0.367	NO
		Left Edge	2TX Slots	Hotspot	-	-	190/836.6	30.80	27.80	0.000	2.00	0.000	NO
		Right Edge	2TX Slots	Hotspot	-	-	190/836.6	30.80	27.80	0.107	2.00	0.214	NO
		Bottom Edge	2TX Slots	Hotspot	-	-	190/836.6	30.80	27.80	0.119	2.00	0.238	NO
GSM1900 (Original)	Second Antenna	Back Side	2TX Slots	Hotspot	-	-	661/1880	27.80	26.70	0.355	1.29	0.457	NO
		Front Side	2TX Slots	Hotspot	-	-	661/1880	27.80	26.70	0.165	1.29	0.212	NO
		Left Edge	2TX Slots	Hotspot	-	-	661/1880	27.80	26.70	0.098	1.29	0.126	NO
		Right Edge	2TX Slots	Hotspot	-	-	661/1880	27.80	26.70	0.051	1.29	0.066	NO
		Top Edge	2TX Slots	Hotspot	-	-	661/1880	27.80	26.70	0.562	1.29	0.724	NO
WCDMA II (Original)	Main Antenna	Back Side	RMC	Hotspot	-	-	9400/1880	24.40	22.40	0.530	1.58	0.839	NO
		Front Side	RMC	Hotspot	-	-	9400/1880	24.40	22.40	0.500	1.58	0.792	NO
		Left Edge	RMC	Hotspot	-	-	9400/1880	24.40	22.40	0.156	1.58	0.246	NO
		Right Edge	RMC	Hotspot	-	-	9400/1880	24.40	22.40	0.125	1.58	0.198	NO
		Bottom Edge	RMC	Hotspot	-	-	9400/1880	24.40	22.40	0.891	1.58	1.412	YES
	Second Antenna	Back Side	RMC	Hotspot	-	-	9400/1880	21.80	20.70	0.434	1.29	0.559	NO
		Front Side	RMC	Hotspot	-	-	9400/1880	21.80	20.70	0.187	1.29	0.241	NO
		Left Edge	RMC	Hotspot	-	-	9400/1880	21.80	20.70	0.111	1.29	0.143	NO
		Right Edge	RMC	Hotspot	-	-	9400/1880	21.80	20.70	0.112	1.29	0.144	NO
		Top Edge	RMC	Hotspot	-	-	9400/1880	21.80	20.70	0.636	1.29	0.819	NO
WCDMA IV (Original)	Main Antenna	Back Side	RMC	Hotspot	-	-	1413/1732.6	23.40	22.70	0.798	1.17	0.938	NO
		Front Side	RMC	Hotspot	-	-	1413/1732.6	23.40	22.70	0.409	1.17	0.481	NO
		Left Edge	RMC	Hotspot	-	-	1413/1732.6	23.40	22.70	0.160	1.17	0.188	NO
		Right Edge	RMC	Hotspot	-	-	1413/1732.6	23.40	22.70	0.125	1.17	0.147	NO
		Bottom Edge	RMC	Hotspot	-	-	1413/1732.6	23.40	22.70	0.985	1.17	1.157	NO
	Second Antenna	Back Side	RMC	Hotspot	-	-	1413/1732.6	21.00	20.80	0.331	1.05	0.346	NO
		Front Side	RMC	Hotspot	-	-	1413/1732.6	21.00	20.80	0.154	1.05	0.161	NO
		Left Edge	RMC	Hotspot	-	-	1413/1732.6	21.00	20.80	0.081	1.05	0.085	NO
		Right Edge	RMC	Hotspot	-	-	1413/1732.6	21.00	20.80	0.041	1.05	0.043	NO
		Top Edge	RMC	Hotspot	-	-	1413/1732.6	21.00	20.80	0.602	1.05	0.630	NO
LTE 2 (Original)	Main Antenna	Back Side	QPSK	Hotspot	1	0	19100/1900	24.40	22.40	0.503	1.58	0.797	NO
			QPSK	Hotspot	50%	0	18700/1860	23.40	22.40	0.524	1.26	0.660	NO
		Front Side	QPSK	Hotspot	1	0	19100/1900	24.40	22.40	0.333	1.58	0.527	NO
			QPSK	Hotspot	50%	0	18700/1860	23.40	22.40	0.355	1.26	0.447	NO
		Left Edge	QPSK	Hotspot	1	0	19100/1900	24.40	22.40	0.113	1.58	0.179	NO
			QPSK	Hotspot	50%	0	18700/1860	23.40	22.40	0.148	1.26	0.186	NO
		Right Edge	QPSK	Hotspot	1	0	19100/1900	24.40	22.40	0.047	1.58	0.075	NO
			QPSK	Hotspot	50%	0	18700/1860	23.40	22.40	0.115	1.26	0.145	NO
		Bottom Edge	QPSK	Hotspot	1	0	19100/1900	24.40	22.40	0.788	1.58	1.249	YES

			QPSK	Hotspot	50%	0	18700/1860	23.40	22.40	0.821	1.26	1.034	NO
	Second Antenna	Back Side	QPSK	Hotspot	1	0	18900/1880	21.80	20.70	0.439	1.29	0.565	NO
			QPSK	Hotspot	50%	0	18900/1880	21.80	20.70	0.449	1.29	0.578	NO
		Front Side	QPSK	Hotspot	1	0	18900/1880	21.80	20.70	0.182	1.29	0.234	NO
			QPSK	Hotspot	50%	0	18900/1880	21.80	20.70	0.185	1.29	0.239	NO
		Left Edge	QPSK	Hotspot	1	0	18900/1880	21.80	20.70	0.124	1.29	0.160	NO
			QPSK	Hotspot	50%	0	18900/1880	21.80	20.70	0.114	1.29	0.147	NO
		Right Edge	QPSK	Hotspot	1	0	18900/1880	21.80	20.70	0.059	1.29	0.076	NO
			QPSK	Hotspot	50%	0	18900/1880	21.80	20.70	0.062	1.29	0.080	NO
		Top Edge	QPSK	Hotspot	1	0	18900/1880	21.80	20.70	0.538	1.29	0.693	NO
			QPSK	Hotspot	50%	0	18900/1880	21.80	20.70	0.596	1.29	0.768	NO
LTE 4 (Original)	Main Antenna	Back Side	QPSK	Hotspot	1	0	20300/1745	23.40	22.70	0.472	1.17	0.555	NO
			QPSK	Hotspot	50%	0	20175/1732.5	23.20	22.70	0.531	1.12	0.596	NO
		Front Side	QPSK	Hotspot	1	0	20300/1745	23.40	22.70	0.352	1.17	0.414	NO
			QPSK	Hotspot	50%	0	20175/1732.5	23.20	22.70	0.378	1.12	0.424	NO
		Left Edge	QPSK	Hotspot	1	0	20300/1745	23.40	22.70	0.197	1.17	0.231	NO
			QPSK	Hotspot	50%	0	20175/1732.5	23.20	22.70	0.149	1.12	0.168	NO
		Right Edge	QPSK	Hotspot	1	0	20300/1745	23.40	22.70	0.056	1.17	0.066	NO
			QPSK	Hotspot	50%	0	20175/1732.5	23.20	22.70	0.113	1.12	0.127	NO
		Bottom Edge	QPSK	Hotspot	1	0	20300/1745	23.40	22.70	0.791	1.17	0.929	NO
			QPSK	Hotspot	50%	0	20175/1732.5	23.20	22.70	0.895	1.12	1.004	NO
	Second Antenna	Back Side	QPSK	Hotspot	1	0	20175/1732.5	21.00	20.80	0.306	1.05	0.320	NO
			QPSK	Hotspot	50%	0	20175/1732.5	21.00	20.80	0.355	1.05	0.372	NO
		Front Side	QPSK	Hotspot	1	0	20175/1732.5	21.00	20.80	0.159	1.05	0.167	NO
			QPSK	Hotspot	50%	0	20175/1732.5	21.00	20.80	0.154	1.05	0.161	NO
		Left Edge	QPSK	Hotspot	1	0	20175/1732.5	21.00	20.80	0.078	1.05	0.082	NO
			QPSK	Hotspot	50%	0	20175/1732.5	21.00	20.80	0.083	1.05	0.087	NO
		Right Edge	QPSK	Hotspot	1	0	20175/1732.5	21.00	20.80	0.057	1.05	0.060	NO
			QPSK	Hotspot	50%	0	20175/1732.5	21.00	20.80	0.052	1.05	0.055	NO
		Top Edge	QPSK	Hotspot	1	0	20175/1732.5	21.00	20.80	0.525	1.05	0.550	NO
			QPSK	Hotspot	50%	0	20175/1732.5	21.00	20.80	0.539	1.05	0.564	NO
LTE 7 (Original)	Main Antenna	Back Side	QPSK	Hotspot	1	99	21100/2535	22.80	21.00	0.676	1.51	1.023	NO
			QPSK	Hotspot	50%	50	21100/2535	22.80	21.00	0.664	1.51	1.006	NO
		Front Side	QPSK	Hotspot	1	99	21100/2535	22.80	21.00	0.329	1.51	0.497	NO
			QPSK	Hotspot	50%	50	21100/2535	22.80	21.00	0.340	1.51	0.515	NO
		Left Edge	QPSK	Hotspot	1	99	21100/2535	22.80	21.00	0.774	1.51	1.171	NO
			QPSK	Hotspot	50%	50	21100/2535	22.80	21.00	0.789	1.51	1.194	NO
		Right Edge	QPSK	Hotspot	1	99	21100/2535	22.80	21.00	0.000	1.51	0.000	NO
			QPSK	Hotspot	50%	50	21100/2535	22.80	21.00	0.000	1.51	0.000	NO
		Top Edge	QPSK	Hotspot	1	99	21100/2535	22.80	21.00	0.118	1.51	0.178	NO
			QPSK	Hotspot	50%	50	21100/2535	22.80	21.00	0.108	1.51	0.164	NO
LTE 38 (Original)	Main Antenna	Back Side	QPSK	Hotspot	1	50	38000/2595	24.50	22.90	0.534	1.45	0.772	NO
			QPSK	Hotspot	50%	0	37850/2580	23.90	22.90	0.618	1.26	0.778	NO

		Front Side	QPSK	Hotspot	1	50	38000/2595	24.50	22.90	0.288	1.45	0.417	NO
			QPSK	Hotspot	50%	0	37850/2580	23.90	22.90	0.305	1.26	0.384	NO
		Left Edge	QPSK	Hotspot	1	50	38000/2595	24.50	22.90	0.805	1.45	1.164	NO
			QPSK	Hotspot	50%	0	37850/2580	23.90	22.90	0.778	1.26	0.980	NO
		Right Edge	QPSK	Hotspot	1	50	38000/2595	24.50	22.90	0.000	1.45	0.000	NO
			QPSK	Hotspot	50%	0	37850/2580	23.90	22.90	0.000	1.26	0.000	NO
		Top Edge	QPSK	Hotspot	1	50	38000/2595	24.50	22.90	0.088	1.45	0.127	NO
			QPSK	Hotspot	50%	0	37850/2580	23.90	22.90	0.073	1.26	0.092	NO
LTE 66 (Original)	Main Antenna	Back Side	QPSK	Hotspot	1	50	132572/1770	23.40	22.70	0.283	1.17	0.333	NO
			QPSK	Hotspot	50%	0	132072/1720	23.20	22.70	0.309	1.12	0.347	NO
		Front Side	QPSK	Hotspot	1	50	132572/1770	23.40	22.70	0.282	1.17	0.332	NO
			QPSK	Hotspot	50%	0	132072/1720	23.20	22.70	0.275	1.12	0.309	NO
		Left Edge	QPSK	Hotspot	1	50	132572/1770	23.40	22.70	0.088	1.17	0.103	NO
			QPSK	Hotspot	50%	0	132072/1720	23.20	22.70	0.013	1.12	0.014	NO
		Right Edge	QPSK	Hotspot	1	50	132572/1770	23.40	22.70	0.156	1.17	0.183	NO
			QPSK	Hotspot	50%	0	132072/1720	23.20	22.70	0.078	1.12	0.088	NO
		Bottom Edge	QPSK	Hotspot	1	50	132572/1770	23.40	22.70	0.720	1.17	0.846	NO
			QPSK	Hotspot	50%	0	132072/1720	23.20	22.70	0.798	1.12	0.896	NO
	Second Antenna	Back Side	QPSK	Hotspot	1	0	132322/1745	21.00	20.80	0.412	1.05	0.432	NO
			QPSK	Hotspot	50%	25	132572/1770	21.00	20.80	0.415	1.05	0.435	NO
		Front Side	QPSK	Hotspot	1	0	132322/1745	21.00	20.80	0.177	1.05	0.186	NO
			QPSK	Hotspot	50%	25	132572/1770	21.00	20.80	0.197	1.05	0.207	NO
		Left Edge	QPSK	Hotspot	1	0	132322/1745	21.00	20.80	0.065	1.05	0.069	NO
			QPSK	Hotspot	50%	25	132572/1770	21.00	20.80	0.067	1.05	0.070	NO
		Right Edge	QPSK	Hotspot	1	0	132322/1745	21.00	20.80	0.087	1.05	0.091	NO
			QPSK	Hotspot	50%	25	132572/1770	21.00	20.80	0.096	1.05	0.100	NO
		Top Edge	QPSK	Hotspot	1	0	132322/1745	21.00	20.80	0.539	1.05	0.564	NO
			QPSK	Hotspot	50%	25	132572/1770	21.00	20.80	0.628	1.05	0.657	NO

Band	Antenna	Test Position	Mode	Power Reduction	Duty Cycle	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/kg)	Measured SAR1g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	SAR test
U-NII-3 (Original)	Wi-Fi	Back Side	802.11a	Receiver off + Hotspot	98.0%	149/5745	18.50	17.50	0.260	0.820	-0.150	1.28	1.053	NO
		Front Side	802.11a	Receiver off + Hotspot	98.0%	149/5745	18.50	17.50	0.059	0.173	0.052	1.28	0.222	NO
		Left Edge	802.11a	Receiver off + Hotspot	98.0%	149/5745	18.50	17.50	0.078	0.195	-0.034	1.28	0.250	NO
		Right Edge	802.11a	Receiver off + Hotspot	98.0%	149/5745	18.50	17.50	0.082	0.200	0.055	1.28	0.258	NO
		Top Edge	802.11a	Receiver off + Hotspot	98.0%	149/5745	18.50	17.50	0.251	0.875	0.021	1.28	1.125	NO
		Top Edge	802.11a	Receiver off	98.0%	157/5785	18.50	17.50	0.241	0.867	0.012	1.28	1.114	NO

				+ Hotspot										
		Top Edge	802.11a	Receiver off + Hotspot	98.0%	165/5825	18.50	17.50	0.237	0.865	-0.034	1.28	1.112	NO

Product Specific 10-g SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
WCDMA II (Original)	Second Antenna	Bottom Edge	0	RMC	Body SAR	-	-	9400/1880	24.40	23.33	1.990	0.021	1.28	2.546	70
		Bottom Edge	0	RMC	Body SAR	-	-	9262/1852.4	24.40	23.04	1.980	0.090	1.37	2.708	/
		Bottom Edge	0	RMC	Body SAR	-	-	9538/1907.6	24.40	23.25	1.970	0.100	1.30	2.567	/
		Bottom Edge Battery 2	0	RMC	Body SAR	-	-	9262/1852.4	24.40	23.04	1.850	-0.024	1.37	2.530	/
WCDMA II (Variant)	Second Antenna	Bottom Edge	0	RMC	Body SAR	-	-	9262/1852.4	24.40	23.04	1.570	0.061	1.37	2.147	/
LTE 2 (Original)	Second Antenna	Bottom Edge	0	RMC	Body SAR	1	0	18900/1880	24.40	23.67	2.080	0.170	1.18	2.461	71
		Bottom Edge	0	RMC	Body SAR	1	0	18700/1860	24.40	23.28	2.050	0.050	1.29	2.653	/
		Bottom Edge	0	RMC	Body SAR	1	0	19100/1900	24.40	23.31	1.980	0.028	1.29	2.545	/
		Bottom Edge	0	RMC	Body SAR	50%	0	18900/1880	23.40	22.54	1.710	0.140	1.22	2.084	/
		Bottom Edge	0	RMC	Body SAR	100%	0	18900/1880	23.40	22.54	1.650	0.180	1.22	2.011	/
		Bottom Edge Battery 2	0	RMC	Body SAR	1	0	18700/1860	24.40	23.28	2.030	0.062	1.29	2.627	/
LTE 2 (Variant)	Second Antenna	Bottom Edge	0	RMC	Body SAR	1	0	18700/1860	24.40	23.28	1.910	0.021	1.29	2.472	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	Duty Cycle	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
U-NII-2A (Original)	Wi-Fi	Back Side	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.727	0.015	1.06	0.768	/
		Front Side	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.265	0.024	1.06	0.280	/
		Left Edge	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.056	-0.100	1.06	0.059	/
		Right Edge	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	0.093	0.000	1.06	0.098	/
		Top Edge	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	1.690	0.080	1.06	1.785	/
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge Battery 2	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	18.35	1.550	0.013	1.06	1.637	/
U-NII-2A (Variant)	Wi-Fi	Top Edge	0	802.11ac-VHT20	Receiver off	98.0%	52/5260	18.50	17.77	1.280	-0.012	1.21	1.545	/
U-NII-2C (Original)	Wi-Fi	Back Side	0	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.972	0.015	1.12	1.088	/
		Front Side	0	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.286	0.062	1.12	0.320	/
		Left Edge	0	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.104	0.040	1.12	0.116	/
		Right Edge	0	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	0.098	-0.011	1.12	0.110	/
		Top Edge	0	802.11ac-VHT20	Receiver off	98.0%	136/5680	18.50	18.10	1.910	0.028	1.12	2.137	/
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11ac-VHT20	Receiver off	98.0%	104/5520	18.50	17.52	1.920	0.015	1.28	2.455	72
		Top Edge	0	802.11ac-VHT20	Receiver off	98.0%	120/5600	18.50	17.73	1.850	0.032	1.22	2.254	/

		Top Edge Battery 2	0	802.11ac-VHT20	Receiver off	98.0%	104/5520	18.50	17.52	1.790	0.090	1.28	2.289	/
U-NII-2C (Variant)	Wi-Fi	Top Edge	0	802.11ac-VHT20	Receiver off	98.0%	104/5520	18.50	16.96	1.370	0.020	1.45	1.993	/

10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific 10-g SAR
Main Antenna + Bluetooth	Yes	Yes	Yes	Yes
Second Antenna + Bluetooth	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 2.4G	Yes	Yes	Yes	Yes
Second Antenna + Wi-Fi 2.4G	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5G	Yes	Yes	Yes	Yes
Second Antenna + Wi-Fi 5G	Yes	Yes	Yes	Yes
Wi-Fi 2.4G + Bluetooth	NA	NA	NA	NA
Wi-Fi 5G + Bluetooth	NA	NA	NA	NA
Main Antenna + Second Antenna	NA	NA	NA	NA

General Note:

1. The Scaled SAR summation is calculated based on the same configuration and test position.
2. Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

i) Scalar SAR summation < 1.6W/kg, simultaneously transmission SAR measurement is not necessary.

ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.

iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.

The maximum $SAR_{1g/10g}$ Value for Main Antenna

$SAR_{1g/10g}$(W/kg) / Test Position		GSM 850	GSM 1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE 2	LTE 4	LTE 5	LTE 7	LTE 13	LTE 26	LTE 38	LTE 66	MAX. $SAR_{1g/10g}$
Head	Left Cheek	0.244	0.187	0.178	0.142	0.262	0.187	0.154	0.282	0.704	0.113	0.279	0.751	0.132	0.751
	Left Tilt	0.088	0.104	0.096	0.079	0.126	0.073	0.059	0.116	0.181	0.055	0.090	0.197	0.513	0.513
	Right Cheek	0.159	0.120	0.155	0.074	0.252	0.151	0.074	0.195	0.634	0.085	0.164	0.482	0.502	0.634
	Right Tilt	0.087	0.088	0.120	0.065	0.132	0.119	0.063	0.125	0.572	0.046	0.112	0.320	0.619	0.619
Body worn	Back Side	0.375	0.277	0.370	0.234	0.684	0.563	0.449	0.651	0.518	0.506	0.794	0.496	0.301	0.794
	Front Side	0.269	0.166	0.244	0.158	0.588	0.373	0.266	0.488	0.277	0.424	0.482	0.189	0.24	0.588
Hotspot	Back Side	0.311	0.477	0.530	0.798	0.702	0.524	0.531	0.651	0.676	0.506	0.794	0.618	0.309	0.798
	Front Side	0.184	0.287	0.500	0.409	0.588	0.355	0.378	0.488	0.34	0.424	0.482	0.305	0.282	0.588
	Left Edge	0.000	0.099	0.156	0.160	0.091	0.148	0.197	0.15	0.789	0.272	0.1	0.805	0.088	0.805
	Right Edge	0.107	0.095	0.125	0.125	0.093	0.115	0.113	0.333	N/A	0.154	0.187	N/A	0.156	0.333
	Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.118	N/A	N/A	0.088	N/A	0.118
	Bottom Edge	0.119	0.780	0.891	0.985	0.336	0.941	0.987	0.304	N/A	0.351	0.301	N/A	0.798	0.987
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Front Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom Edge	N/A	N/A	2.708	N/A	N/A	2.653	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.708

The maximum $SAR_{1g/10g}$ Value for Second Antenna

Test Position \ $SAR_{1g/10g}$(W/kg)		WCDMA Band II	WCDMA Band IV	LTE 2	LTE 4	LTE 7	LTE 38	LTE 66	MAX. $SAR_{1g/10g}$
Head	Left Cheek	0.478	0.322	0.544	0.379	0.167	0.145	0.400	0.544
	Left Tilt	0.704	0.482	0.775	0.601	0.067	0.048	0.657	0.775
	Right Cheek	0.704	0.569	0.769	0.572	0.088	0.069	0.561	0.769
	Right Tilt	0.925	0.943	0.943	0.747	0.067	0.054	0.791	0.943
Body worn	Back Side	0.194	0.157	0.279	0.255	0.248	0.233	0.251	0.279
	Front Side	0.113	0.105	0.158	0.13	0.124	0.125	0.085	0.158
Hotspot	Back Side	0.434	0.331	0.449	0.355	0.534	0.447	0.415	0.534
	Front Side	0.187	0.154	0.185	0.159	0.262	0.235	0.197	0.262
	Left Edge	0.111	0.081	0.124	0.083	0.096	0.137	0.067	0.137
	Right Edge	0.112	0.041	0.062	0.057	0.071	0.065	0.096	0.112
	Top Edge	0.636	0.602	0.596	0.539	N/A	N/A	0.628	0.636
	Bottom Edge	N/A	N/A	N/A	N/A	0.786	0.673	N/A	0.786
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Front Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

About BT/ Wi-Fi Antenna and Main Antenna/Second Antenna

Test Position \ $SAR_{1g/10g}$(W/kg)		Main antenna	Second antenna	Wi-Fi 2.4G	Wi-Fi 5G				Bluetooth	MAX. $\Sigma SAR_{1g/10g}$
					U-NII-1	U-NII-2A	U-NII-2C	U-NII-3		
Head	Left Cheek	**0.751**	0.544	0.479	0.318	0.437	0.390	**0.528**	0.396	1.279
	Left Tilt	0.513	**0.775**	0.208	0.388	0.536	0.603	**0.706**	0.115	1.481
	Right Cheek	0.634	**0.769**	0.180	0.312	0.432	0.458	**0.580**	0.092	1.349
	Right Tilt	0.619	**0.943**	0.080	0.419	**0.587**	0.577	0.511	0.059	1.530
Body worn	Back Side	**0.794**	0.279	0.487	0.586	0.582	0.563	**0.656**	0.153	1.450
	Front Side	**0.588**	0.158	**0.356**	0.155	0.150	0.148	0.152	0.055	0.944
Hotspot	Back Side	**0.798**	0.534	0.487	0.455	N/A	N/A	**0.791**	0.168	1.589
	Front Side	**0.588**	0.262	**0.356**	0.128	N/A	N/A	0.173	0.055	0.944
	Left Edge	**0.805**	0.137	N/A	0.102	N/A	N/A	**0.195**	0.000	1.000
	Right Edge	**0.333**	0.112	**0.886**	0.099	N/A	N/A	0.200	0.090	1.219
	Top Edge	0.118	**0.636**	0.204	0.534	N/A	N/A	**0.875**	0.031	1.511
	Bottom Edge	**0.987**	0.786	N/A	N/A	N/A	N/A	N/A	N/A	0.987
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	0.768	**1.088**	N/A	N/A	1.088
	Front Side	N/A	N/A	N/A	N/A	0.280	**0.320**	N/A	N/A	0.320
	Left Edge	N/A	N/A	N/A	N/A	0.059	**0.116**	N/A	N/A	0.116
	Right Edge	N/A	N/A	N/A	N/A	0.098	**0.110**	N/A	N/A	0.110
	Top Edge	N/A	N/A	N/A	N/A	1.785	**2.455**	N/A	N/A	2.455
	Bottom Edge	**2.708**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.708

Note: 1.The value with blue color is the maximum $\Sigma SAR_{1g/10g}$ /Value.

2.MAX. $\Sigma SAR_{1g/10g}$ =Unlicensed SAR_{MAX} +Licensed SAR_{MAX}

MAX. ΣSAR1g =1.589W/kg<1.6W/kg and MAX. ΣSAR10g =2.708W/kg<4 W/kg so the Simultaneous transimition SAR with volum scan are not required for BT/ Wi-Fi Antenna and Main Antenna/Second Antenna.

Conclusion:

According to the KDB 690783 D01 section 1) d) i), when the sum of 1-g SAR applies for simultaneous transmission SAR test exclusion, the highest sum of 1-g SAR according to the highest reported stand-alone SAR values is used, and the highest Reported SAR for simultaneous transmission exposure conditions is 1.589 W/kg

11 Measurement Uncertainty

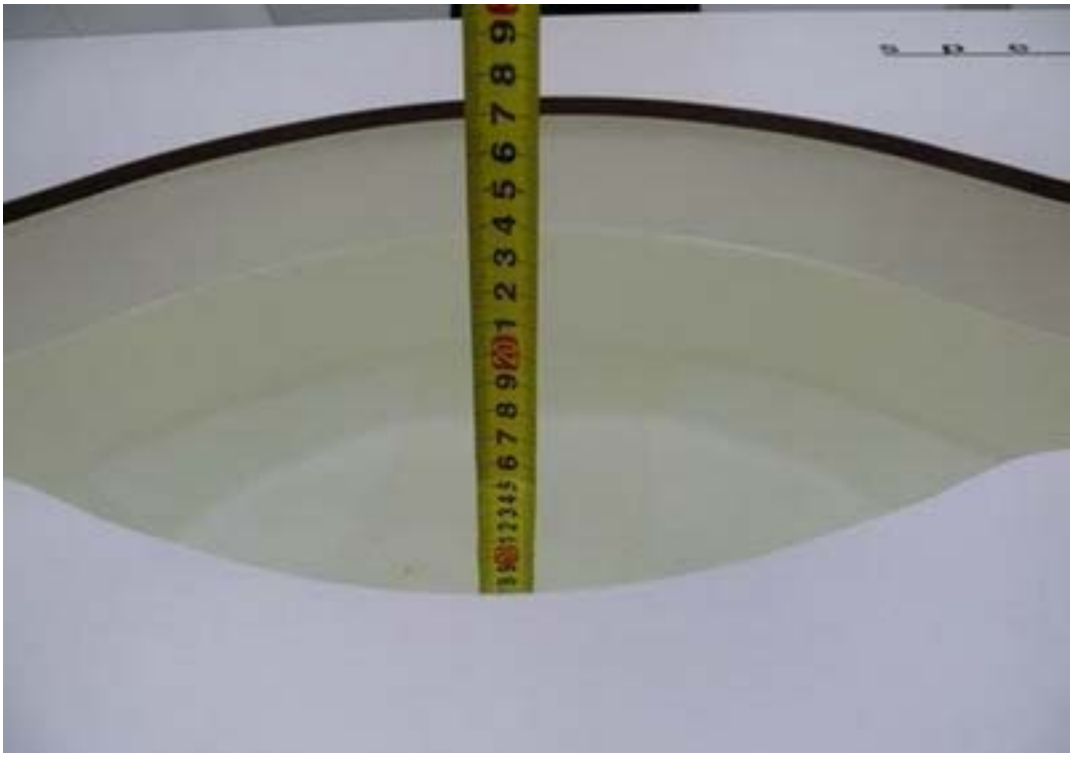
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval. This also applies to the 10-g SAR required for phablets in KDB Publication 648474.

ANNEX A: Test Layout

Tissue Simulating Liquids

For the measurement of the field distribution inside the flat phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For Head and Body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Picture 3 and Picture 4.

Picture 3: liquid depth in the head Phantom



Picture 4: Liquid depth in the flat Phantom

ANNEX B: System Check Results

Plot 1 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1045

Date: 2022/1/15

Communication System:CW (0); Frequency: 750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 750 MHz; σ = 0.88 S/m; ε_r = 42.3; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.64, 9.64, 9.64); Calibrated:2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=15mm,Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.29 W/kg

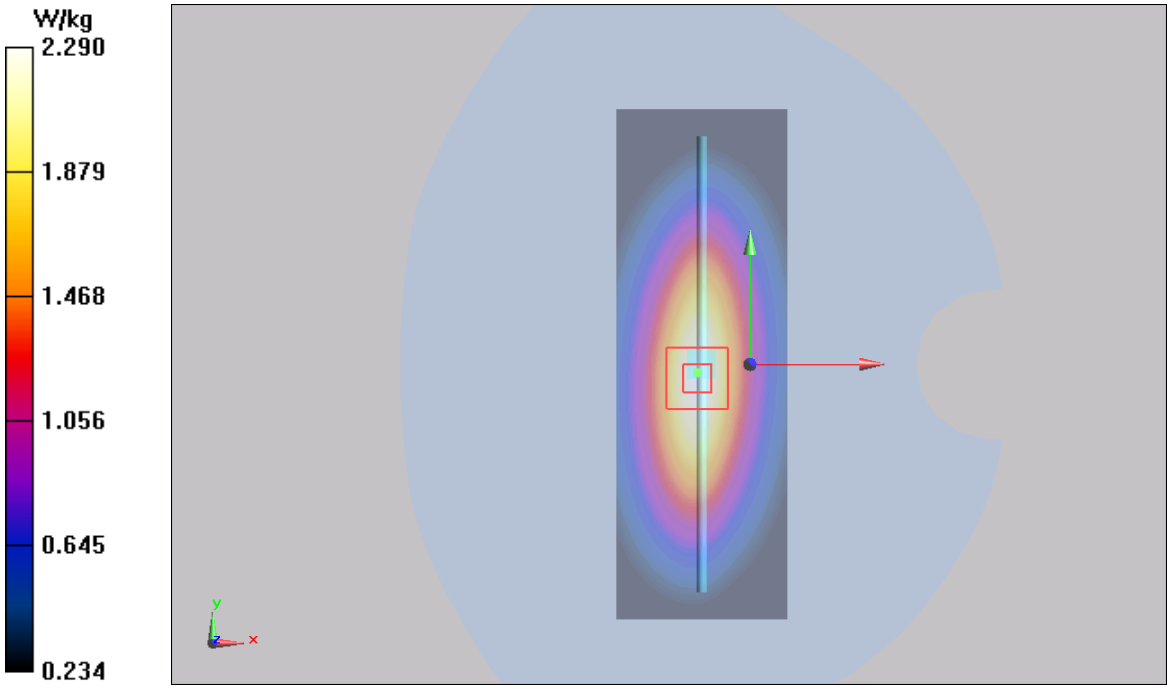
d=15mm,Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.653 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.29 W/kg



Plot 2 System Performance Check at 835 MHz TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d020

Date: 2022/1/14

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.88 S/m; ε_r = 41.4; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.64 mW/g

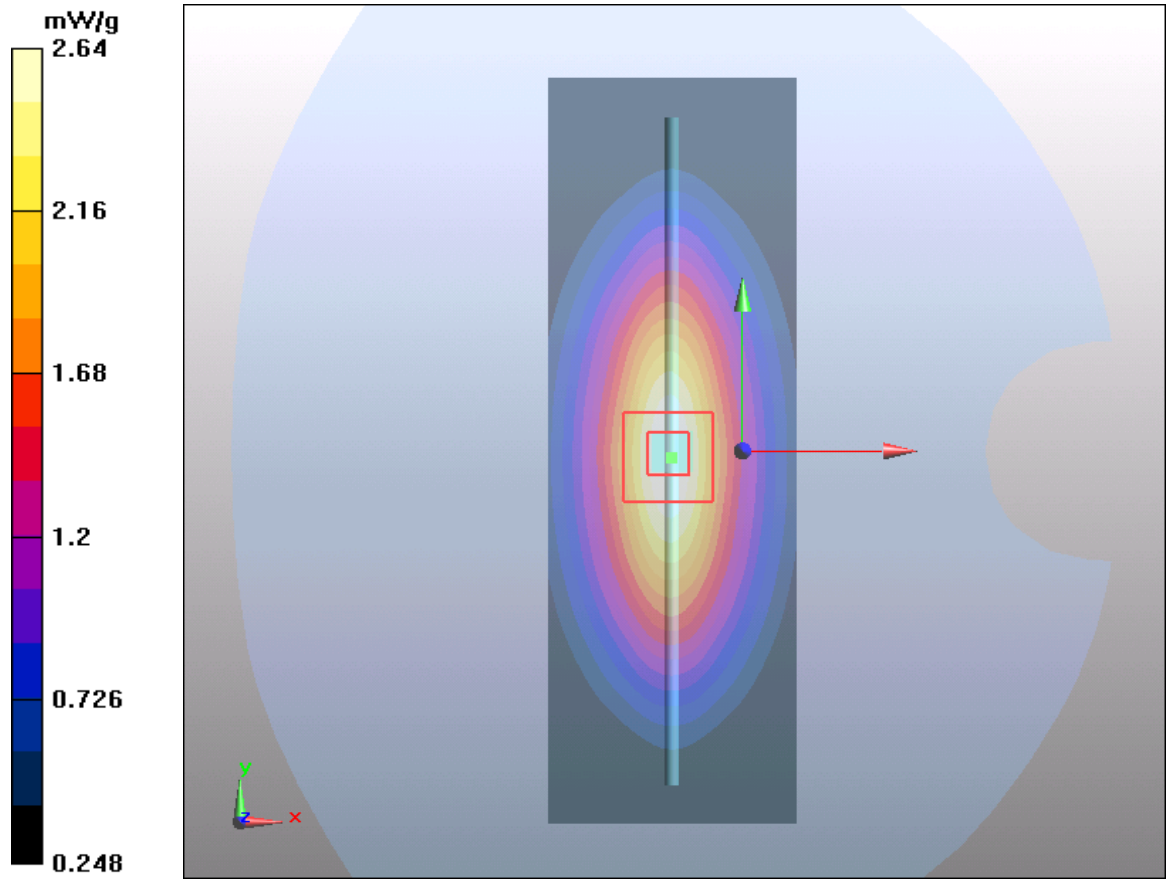
d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.4 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.64 mW/g



Plot 3 System Performance Check at 835 MHz TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d020

Date: 2022/1/15

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ =0.87 S/m; ε_r = 41.3; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.59 mW/g

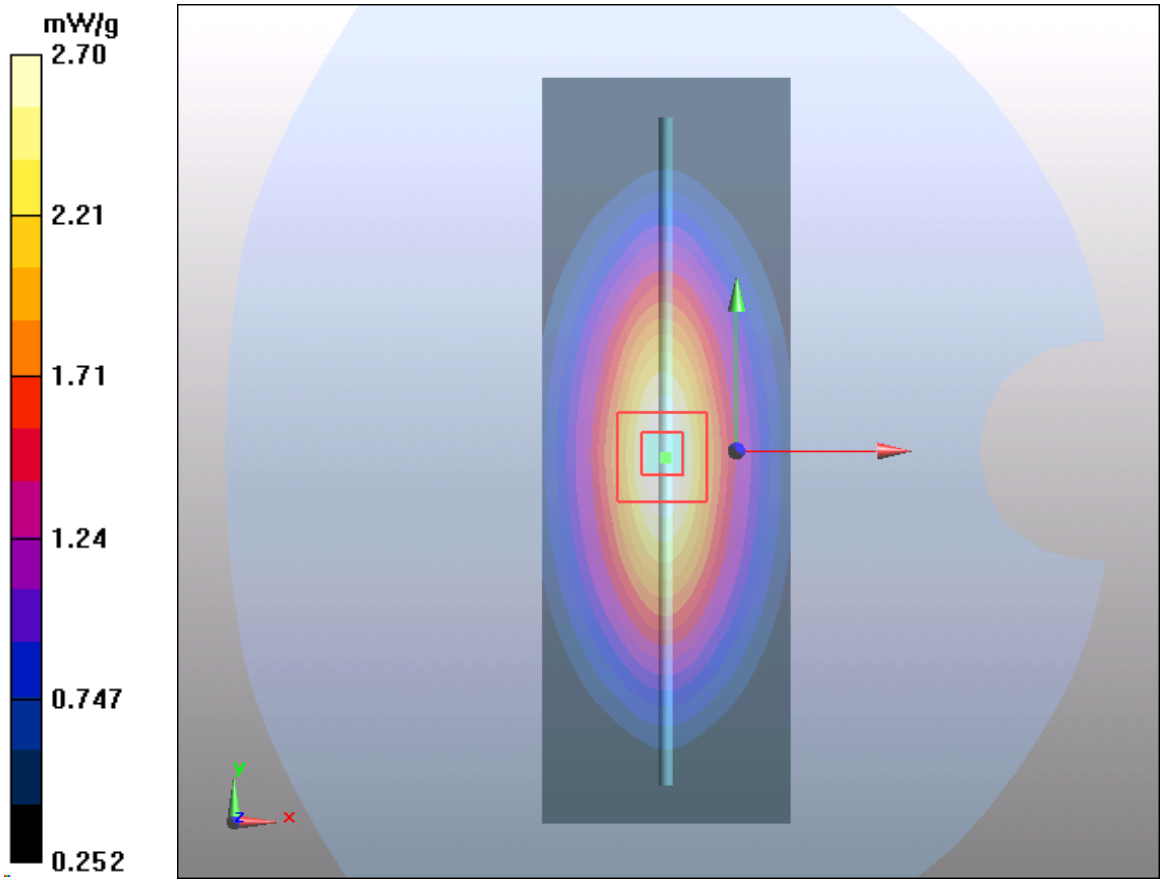
d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.65 mW/g

Maximum value of SAR (measured) = 2.70 mW/g



Plot 4 System Performance Check at 1750 MHz TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1033

Date: 2022/1/18

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.34 S/m; ε_r = 40.2; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.78 mW/g

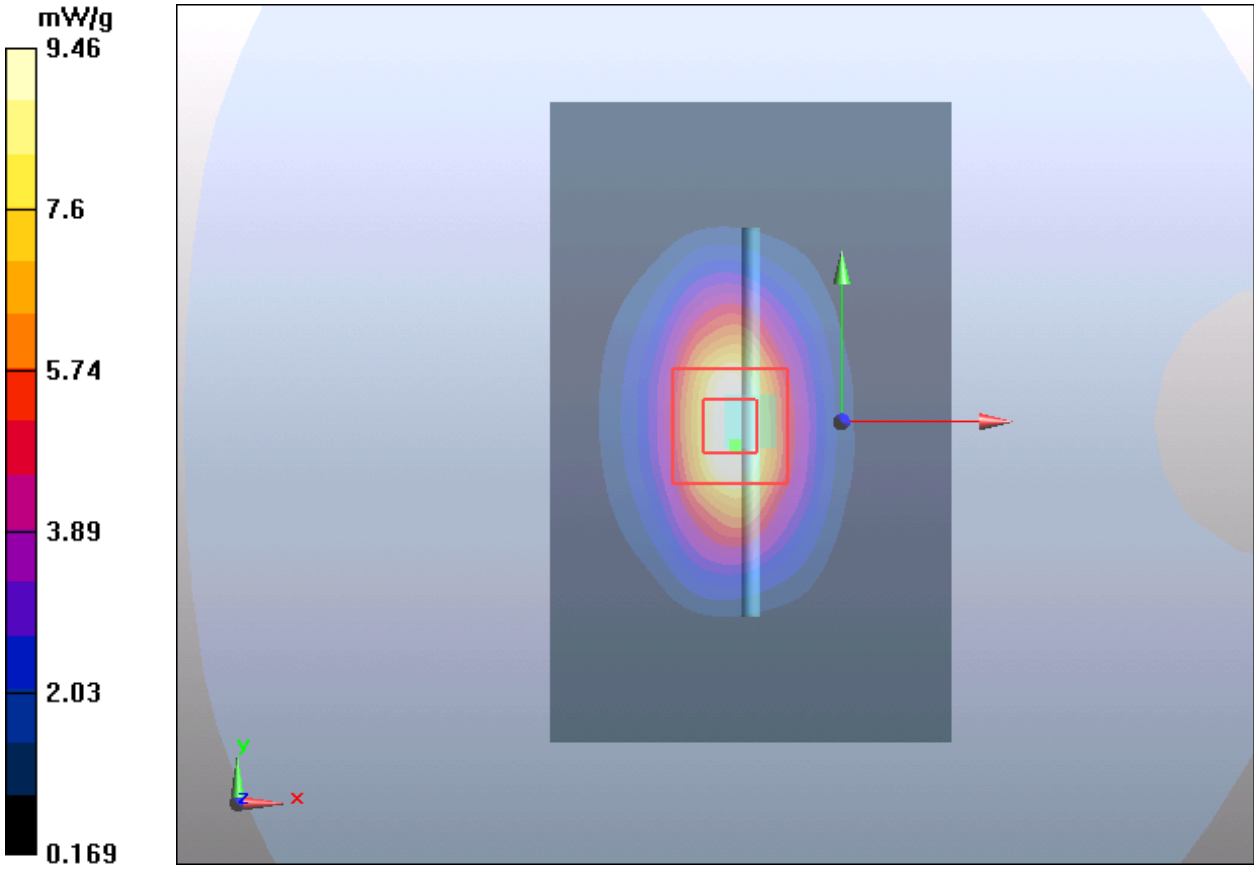
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 80 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.95 mW/g; SAR(10 g) = 4.5 mW/g

Maximum value of SAR (measured) = 9.46 mW/g



Plot 5 System Performance Check at 1750 MHz TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1033

Date: 2022/1/19

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.34 S/m; ε_r = 40.1; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.77 mW/g

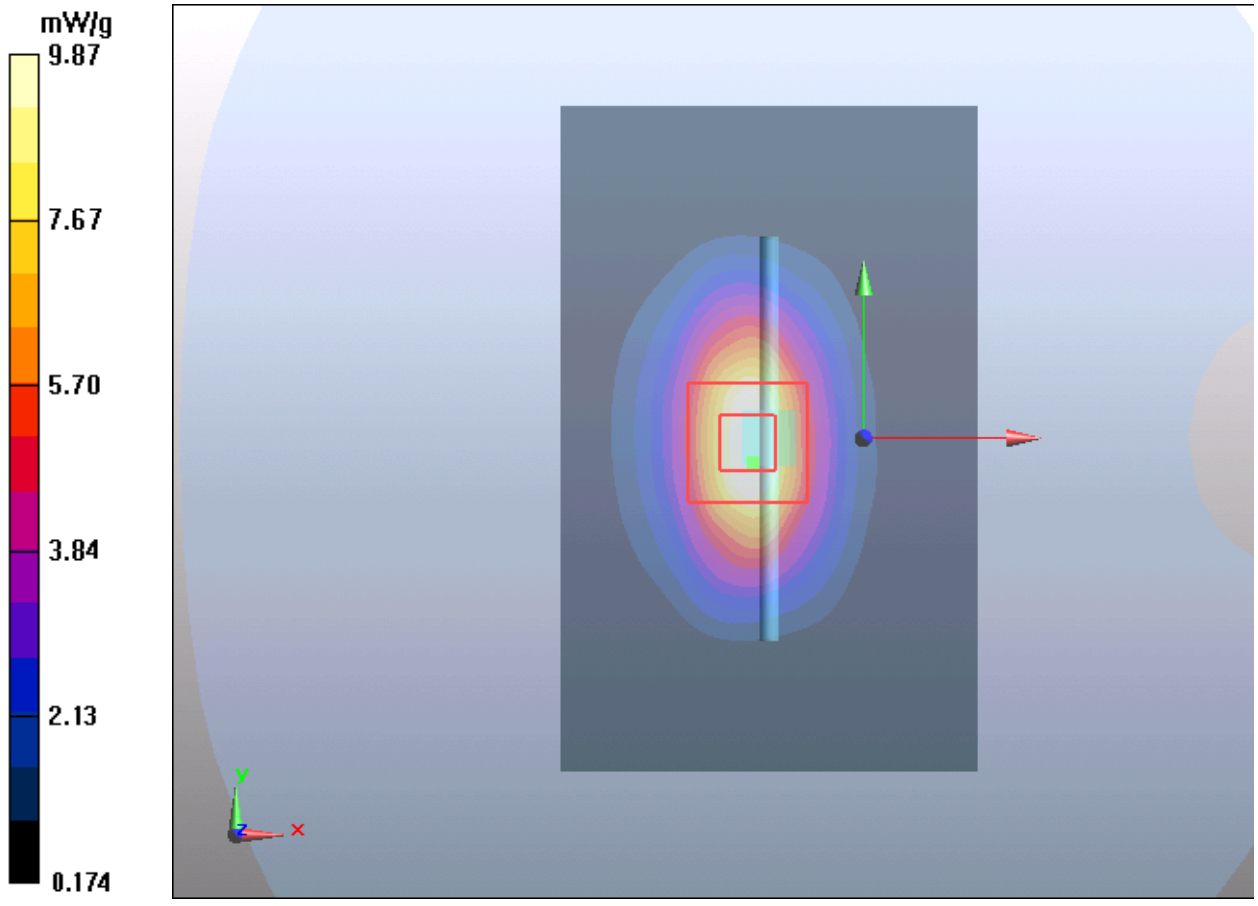
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 80 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 15.51 W/kg

SAR(1 g) = 9.11 mW/g; SAR(10 g) = 4.77 mW/g

Maximum value of SAR (measured) = 9.87 mW/g



Plot 6 System Performance Check at 1750 MHz TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1033

Date: 2022/1/22

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.36 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.11 mW/g

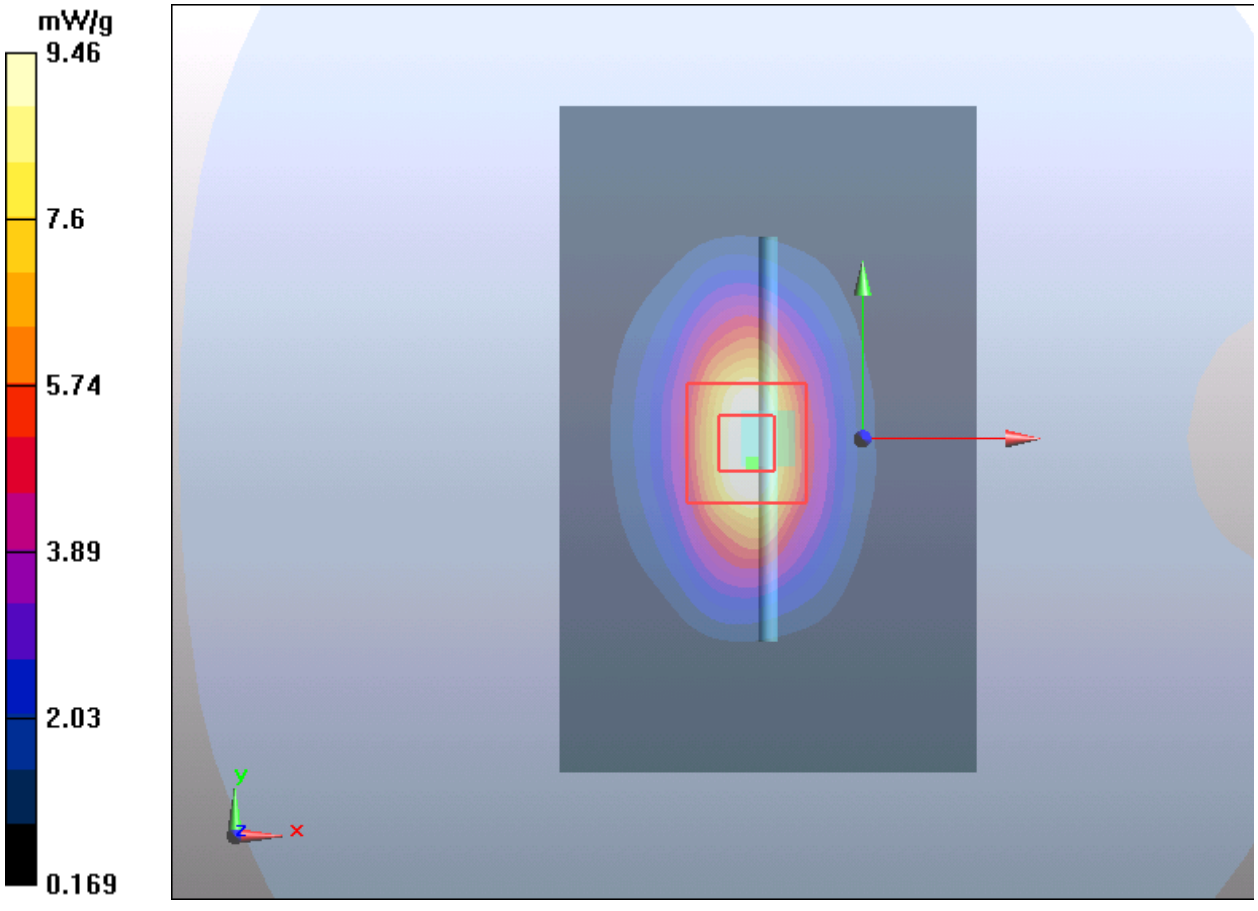
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 80 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 15.47 W/kg

SAR(1 g) = 8.96 mW/g; SAR(10 g) = 4.75 mW/g

Maximum value of SAR (measured) = 9.46 mW/g



Plot 7 System Performance Check at 1750 MHz TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1033

Date: 2022/1/23

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.33 mho/m; ε_r = 40.0; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.7 mW/g

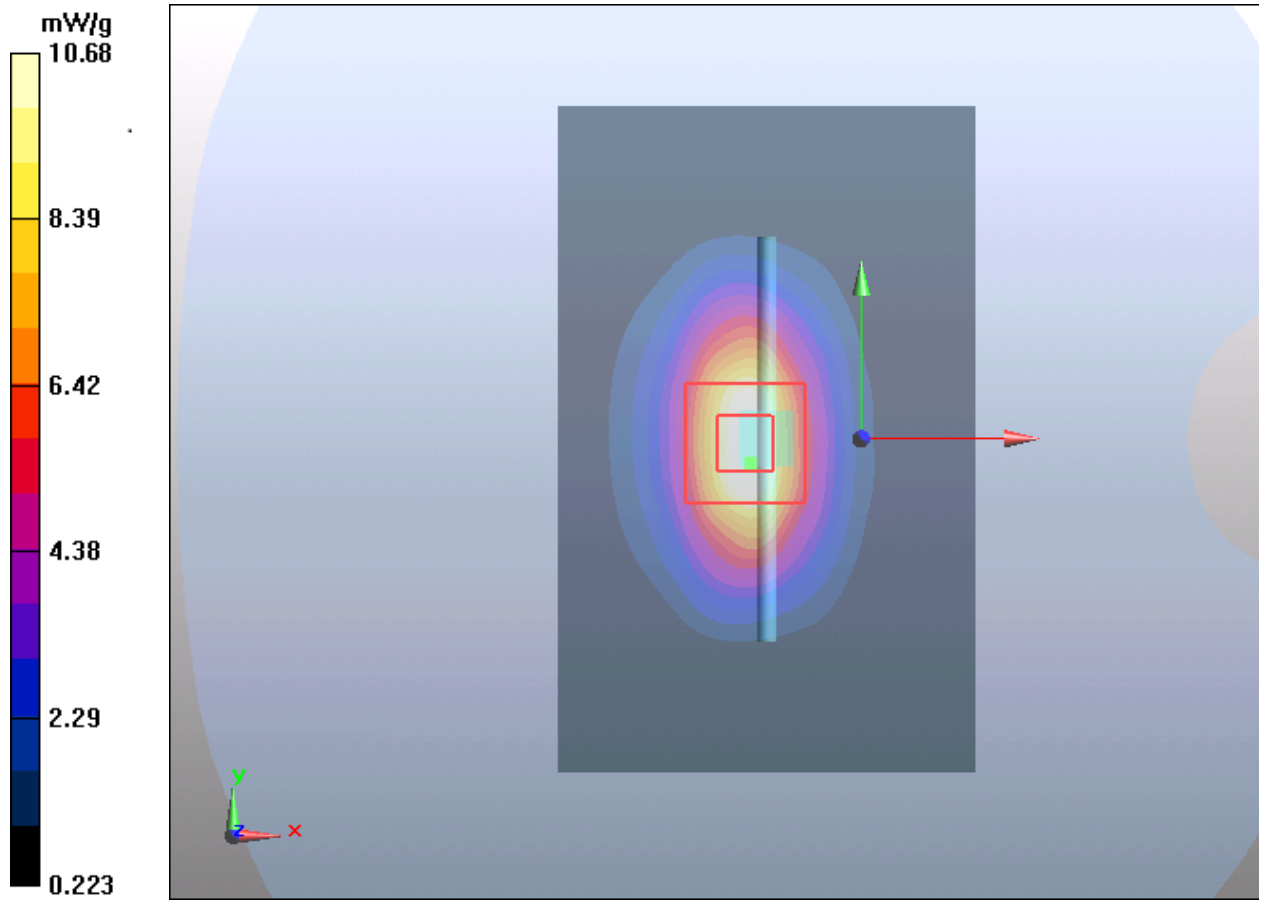
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 80 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 14.8 W/kg

SAR(1 g) = 8.92 mW/g; SAR(10 g) = 4.76 mW/g

Maximum value of SAR (measured) = 10.68 mW/g



Plot 8 System Performance Check at 1900 MHz TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d060

Date: 2022/1/20

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.41 S/m; ε_r = 40.1; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 11.3 mW/g

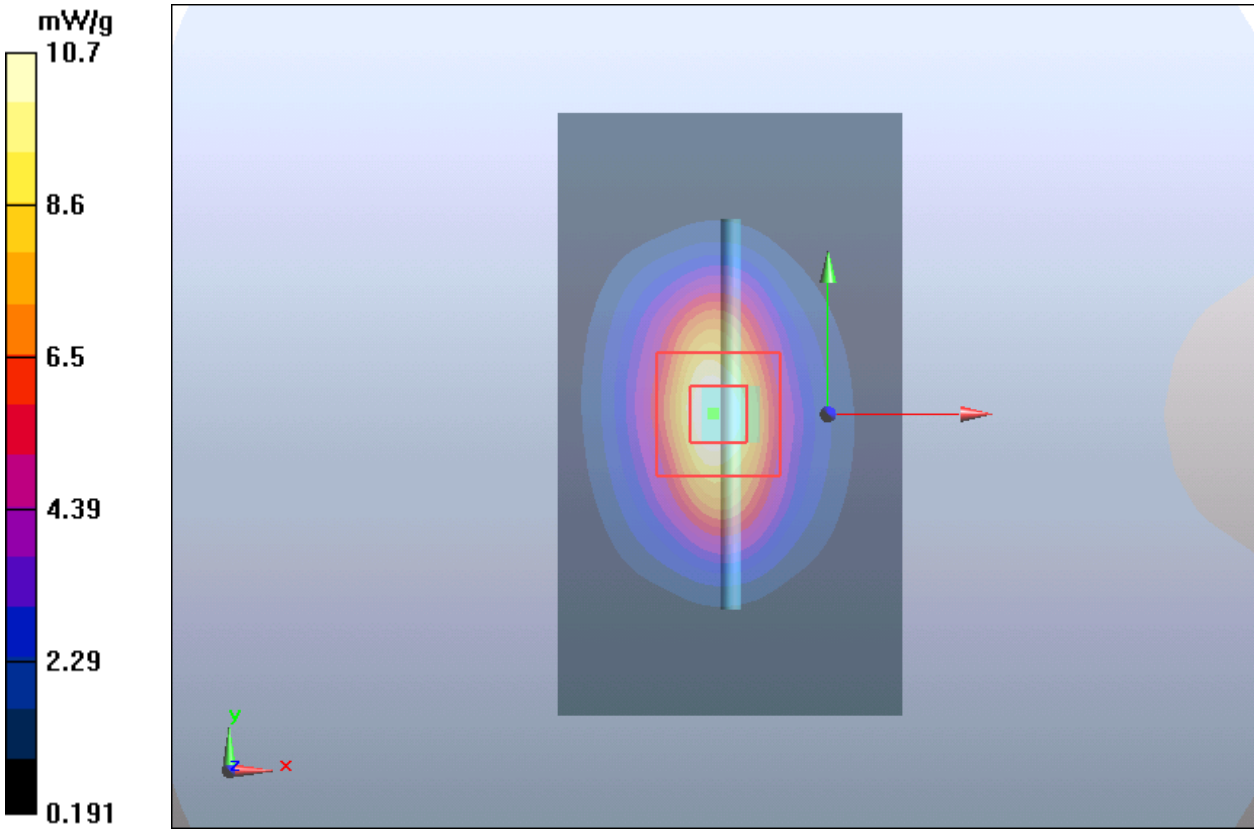
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.5 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.88 mW/g; SAR(10 g) = 4.9 mW/g

Maximum value of SAR (measured) = 10.7 mW/g



Plot 9 System Performance Check at 1900 MHz TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d060

Date: 2022/1/21

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.43 S/m; ε_r = 40.2; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 11.23 mW/g

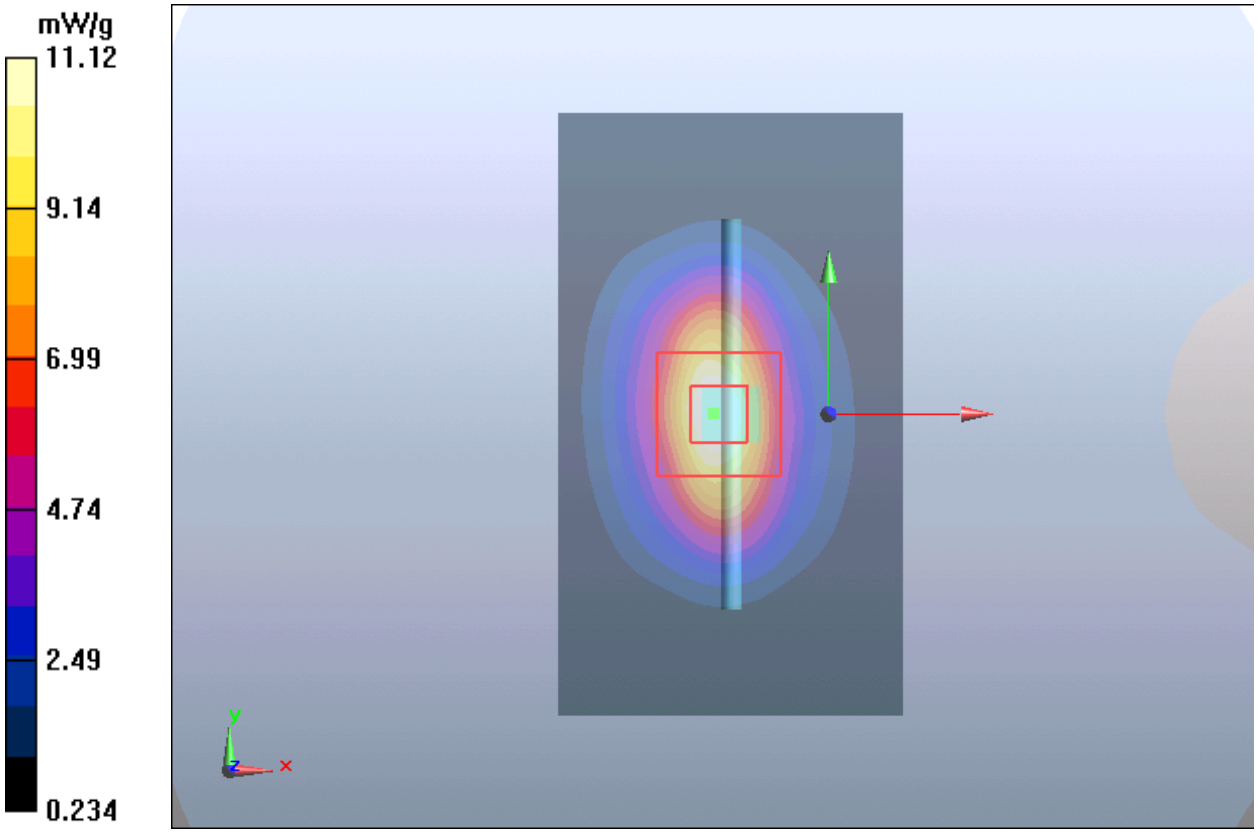
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.85 mW/g; SAR(10 g) = 4.93 mW/g

Maximum value of SAR (measured) = 11.12 mW/g



Plot 10 System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d060

Date: 2022/1/24

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.40 mho/m; ε_r = 40.0; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.9 mW/g

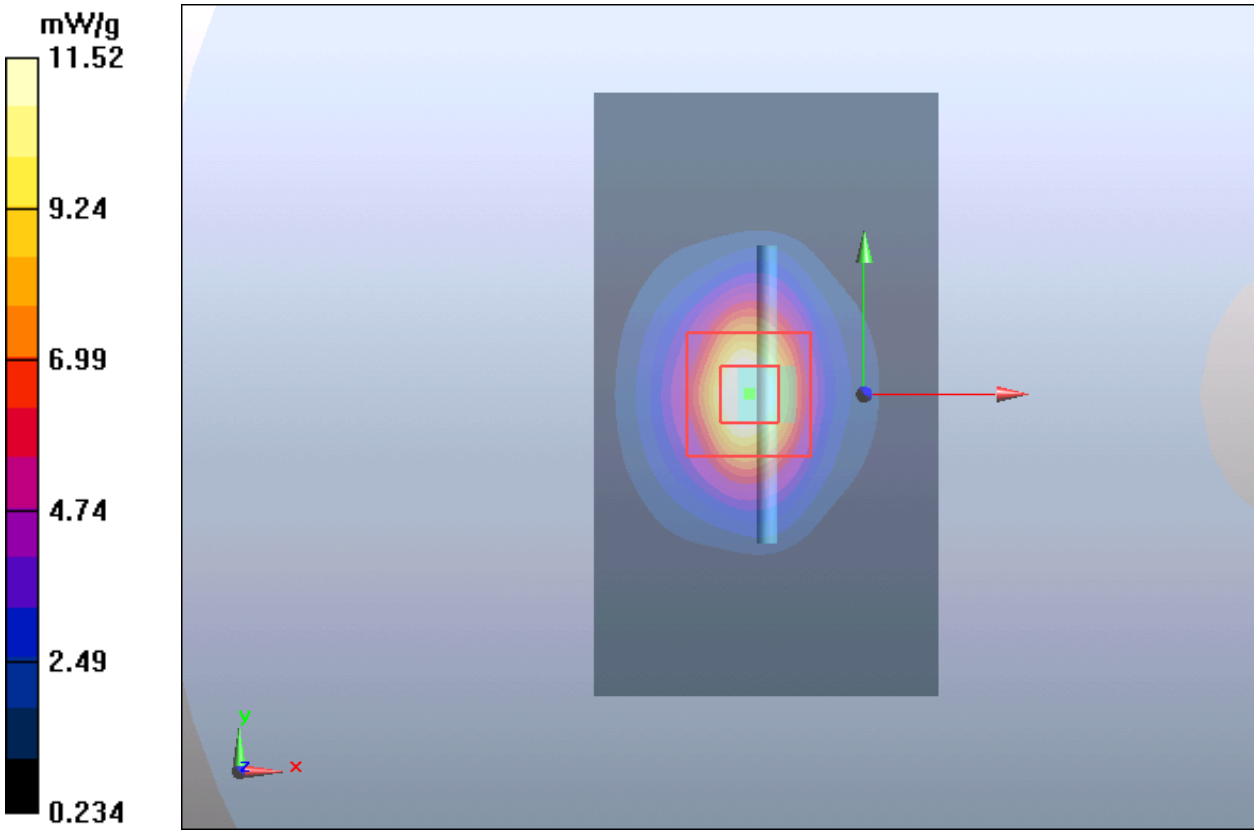
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.8 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 10.05 mW/g; SAR(10 g) = 5.39 mW/g

Maximum value of SAR (measured) = 11.52 mW/g



Plot 11 System Performance Check at 2450 MHz TSL

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

Date: 2022/1/25

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.81 S/m; ε_r = 38.6; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.50, 7.50, 7.50); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 18.2 mW/g

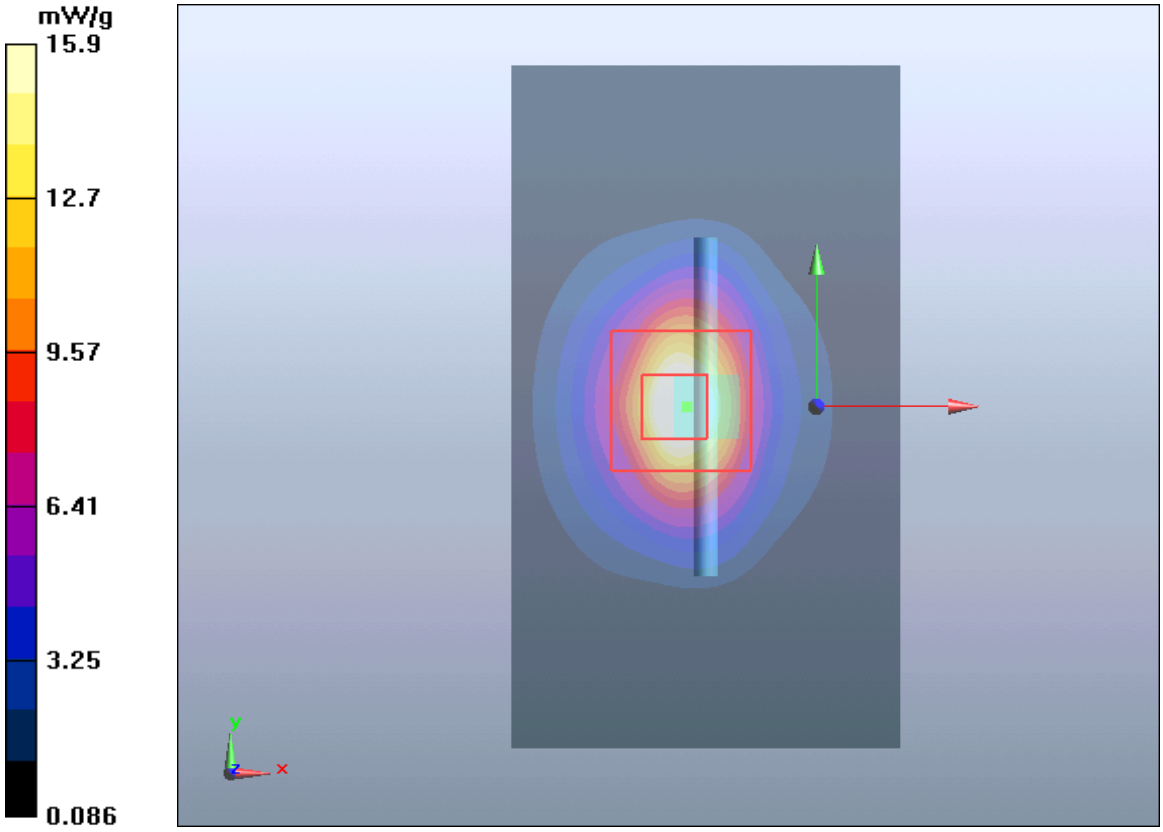
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.8 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 30 W/kg

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.22 mW/g

Maximum value of SAR (measured) = 15.9 mW/g



Plot 12 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1025

Date: 2022/1/16

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 2.01 S/m; ε_r = 38.2; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid:dx=12mm, dy=12mm

Maximum value of SAR (measured) = 17.439 mW/g

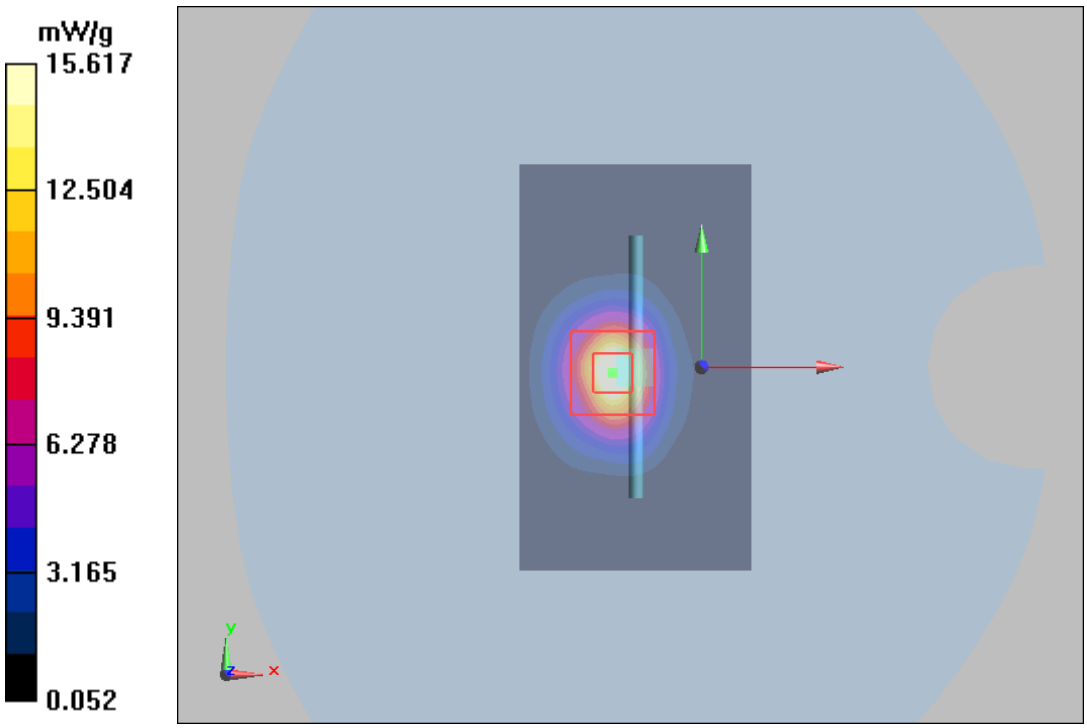
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.998 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.858 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.07 mW/g

Maximum value of SAR (measured) = 15.617 mW/g



Plot 13 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1025

Date: 2022/1/17

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ =1.94S/m; ε_r = 38.4; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid:dx=12mm, dy=12mm

Maximum value of SAR (measured) = 17.59 mW/g

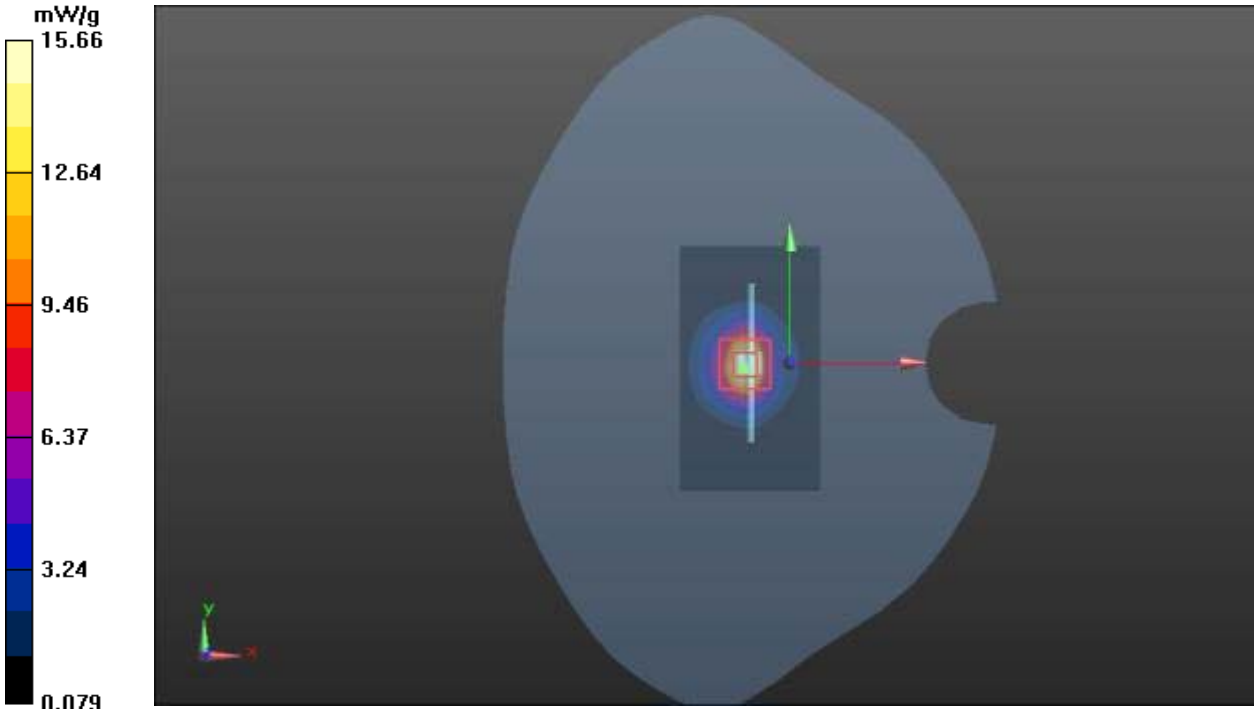
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.998 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.858 W/kg

SAR(1 g) = 13.88 mW/g; SAR(10 g) = 6.09 mW/g

Maximum value of SAR (measured) = 15.66 mW/g



Plot 14 System Performance Check at 5250 MHz TSL

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/1/27

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; σ = 4.80 S/m; ε_r = 35.5; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.14 mW/g

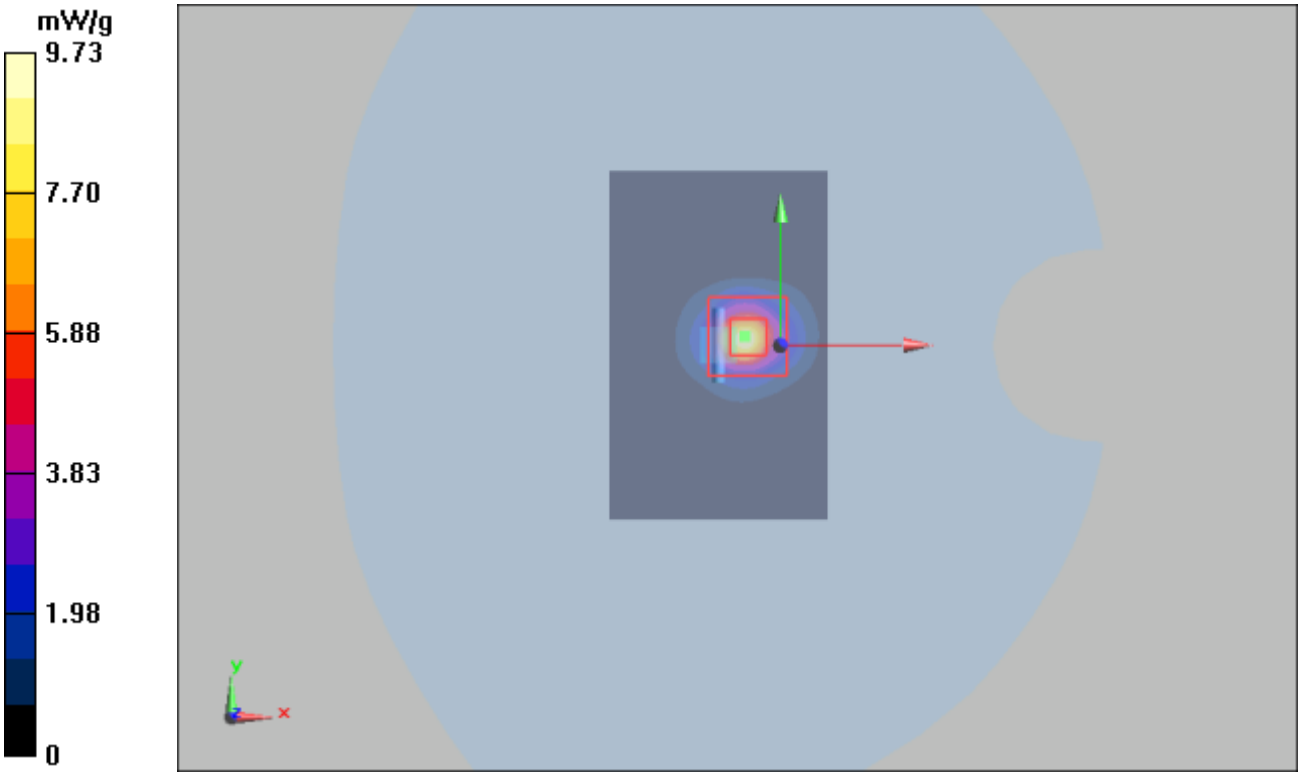
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 33.6 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 52.2 W/kg

SAR(1 g) = 7.87 mW/g; SAR(10 g) = 2.25 mW/g

Maximum value of SAR (measured) = 9.73 mW/g



Plot 15 System Performance Check at 5250 MHz TSL

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/2/14

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz; σ = 4.74 mho/m; ε_r = 35.7; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 9.4 mW/g

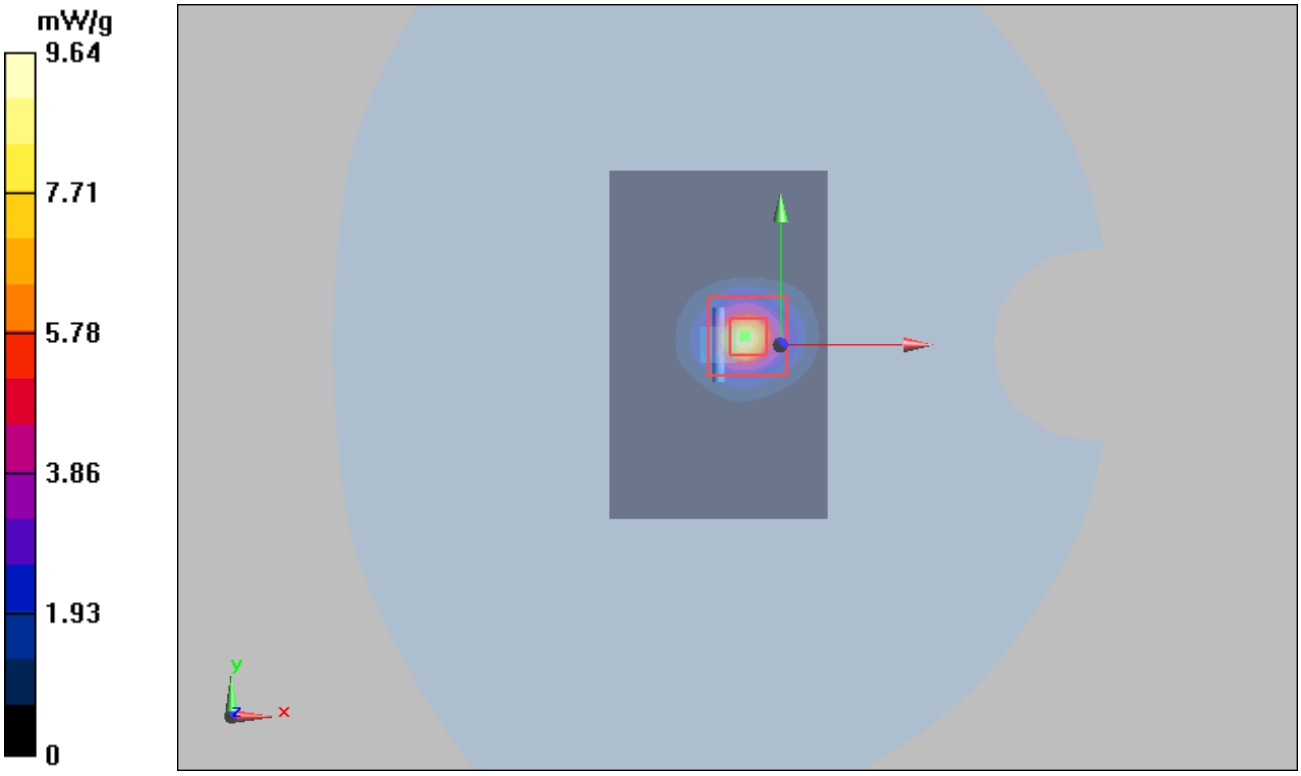
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 33.6 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 52.2 W/kg

SAR(1 g) = 7.76 mW/g; SAR(10 g) = 2.23 mW/g

Maximum value of SAR (measured) = 9.64 mW/g



Plot 16 System Performance Check at 5600 MHz TSL

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/1/26

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.21 S/m; ε_r = 34.2; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.00, 5.00, 5.00); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.25 mW/g

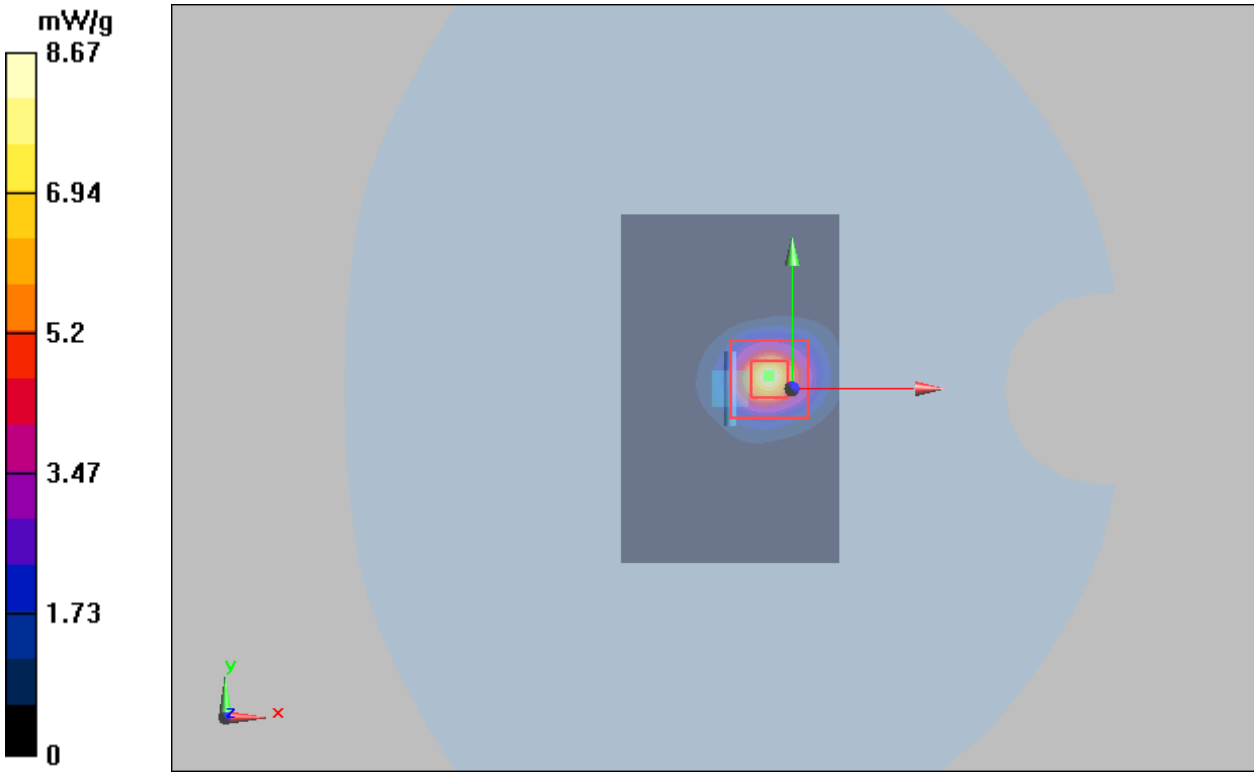
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.1 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 22.9 W/kg

SAR(1 g) = 7.67 mW/g; SAR(10 g) = 2.27 mW/g

Maximum value of SAR (measured) = 8.67 mW/g



Plot 17 System Performance Check at 5600 MHz TSL

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/2/14

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.17 mho/m; ε_r = 34.4; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.00, 5.00, 5.00); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 8.30 mW/g

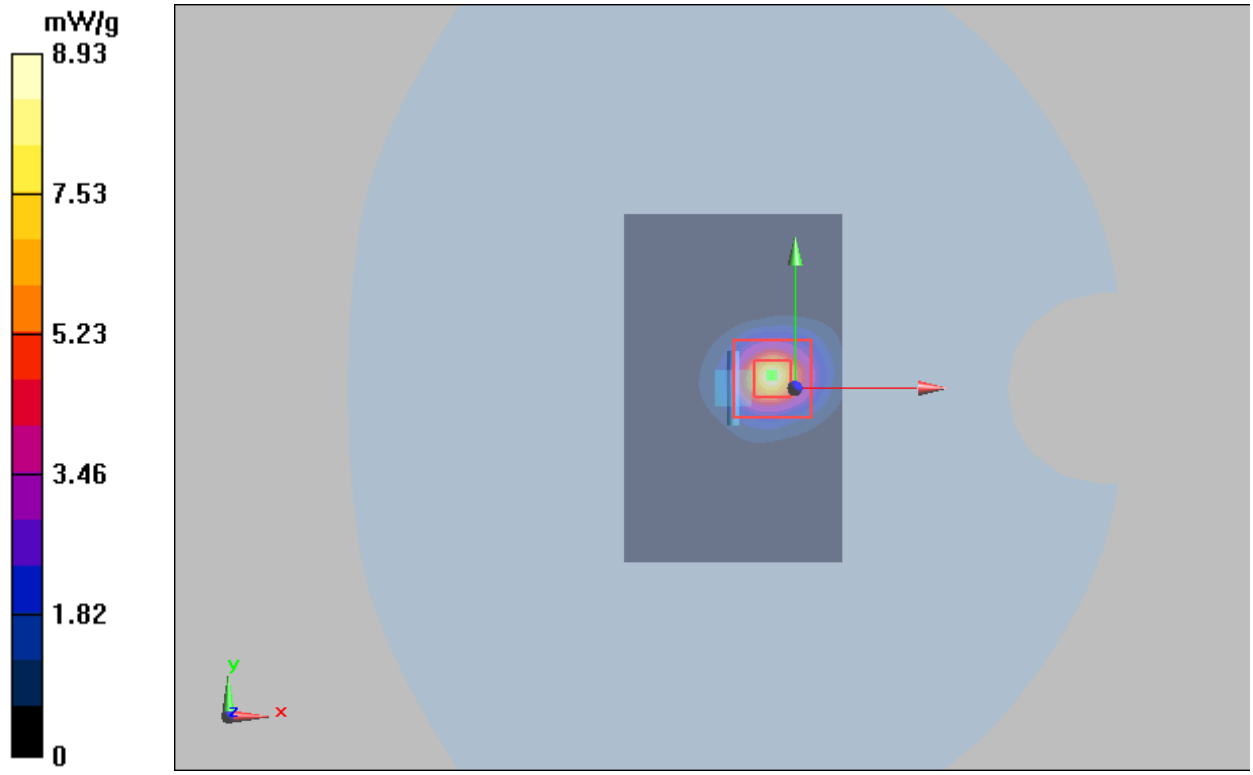
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.13 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 23.0 W/kg

SAR(1 g) = 7.98 mW/g; SAR(10 g) = 2.27 mW/g

Maximum value of SAR (measured) = 8.93 mW/g



Plot 18 System Performance Check at 5750 MHz TSL

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/1/28

Communication System: CW; Frequency: 5750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz; σ = 5.21 S/m; ε_r = 34.9; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.04, 5.04, 5.04); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.31 mW/g

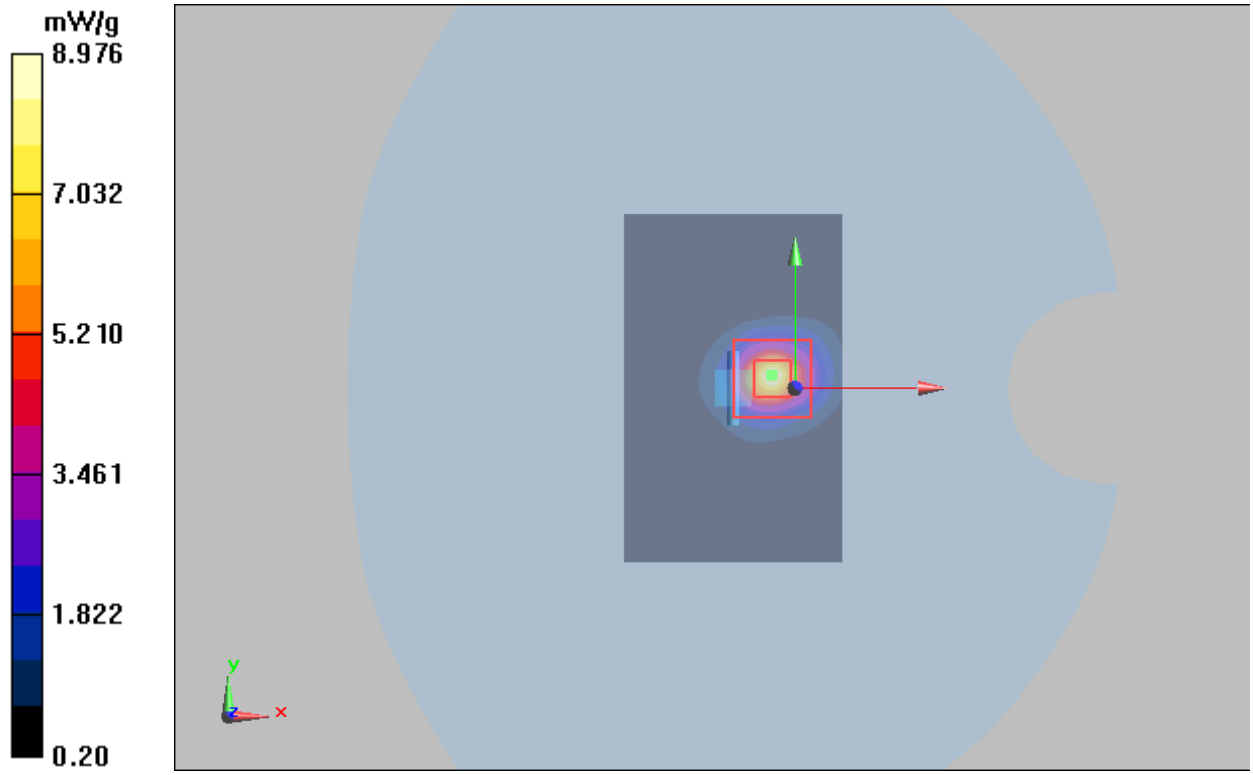
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.1 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 7.66 mW/g; SAR(10 g) = 2.27 mW/g

Maximum value of SAR (measured) = 8.976 mW/g



Variant

Plot 19 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1045

Date: 2022/7/4

Communication System:CW (0); Frequency: 750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 750 MHz; σ = 0.89 S/m; ε_r = 41.8; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.64, 9.64, 9.64); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=15mm,Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.16 W/kg

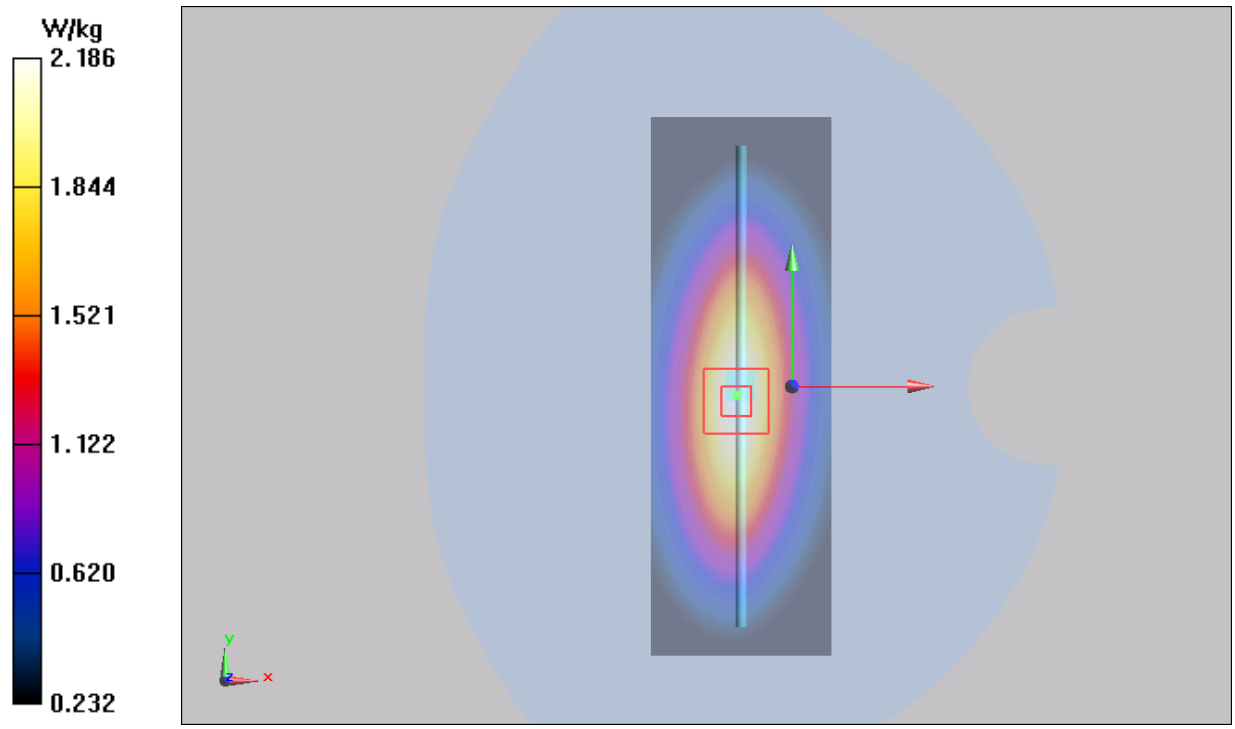
d=15mm,Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.376 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 2.186 W/kg



Plot 20 System Performance Check at 835 MHz TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d020

Date: 2022/7/4

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.92 S/m; ε_r = 41.4; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.64 mW/g

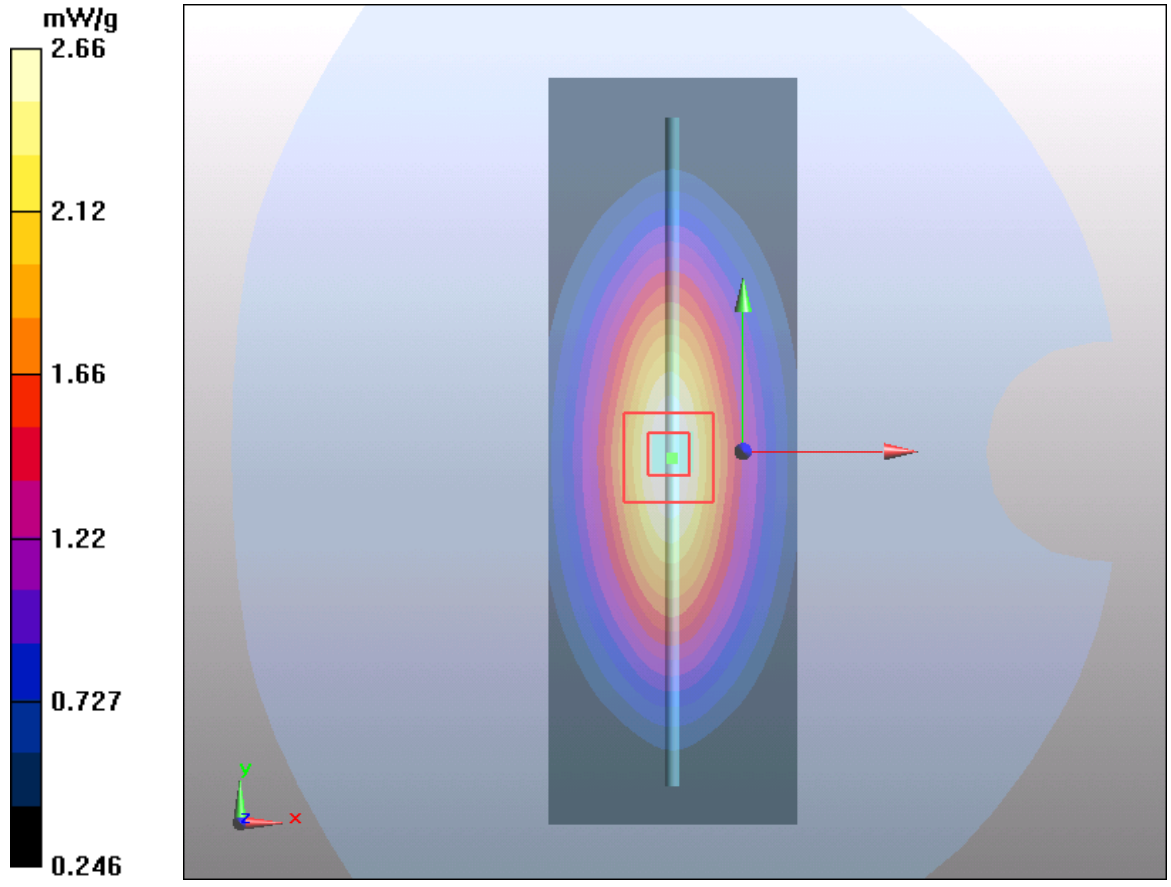
d=15mm, Pin=250mW/Zoom Scan(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.4 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.61 mW/g

Maximum value of SAR (measured) = 2.66 mW/g



Plot 21 System Performance Check at 1750 MHz TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1033

Date: 2022/7/5

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.36 S/m; ε_r = 40.2; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.11 mW/g

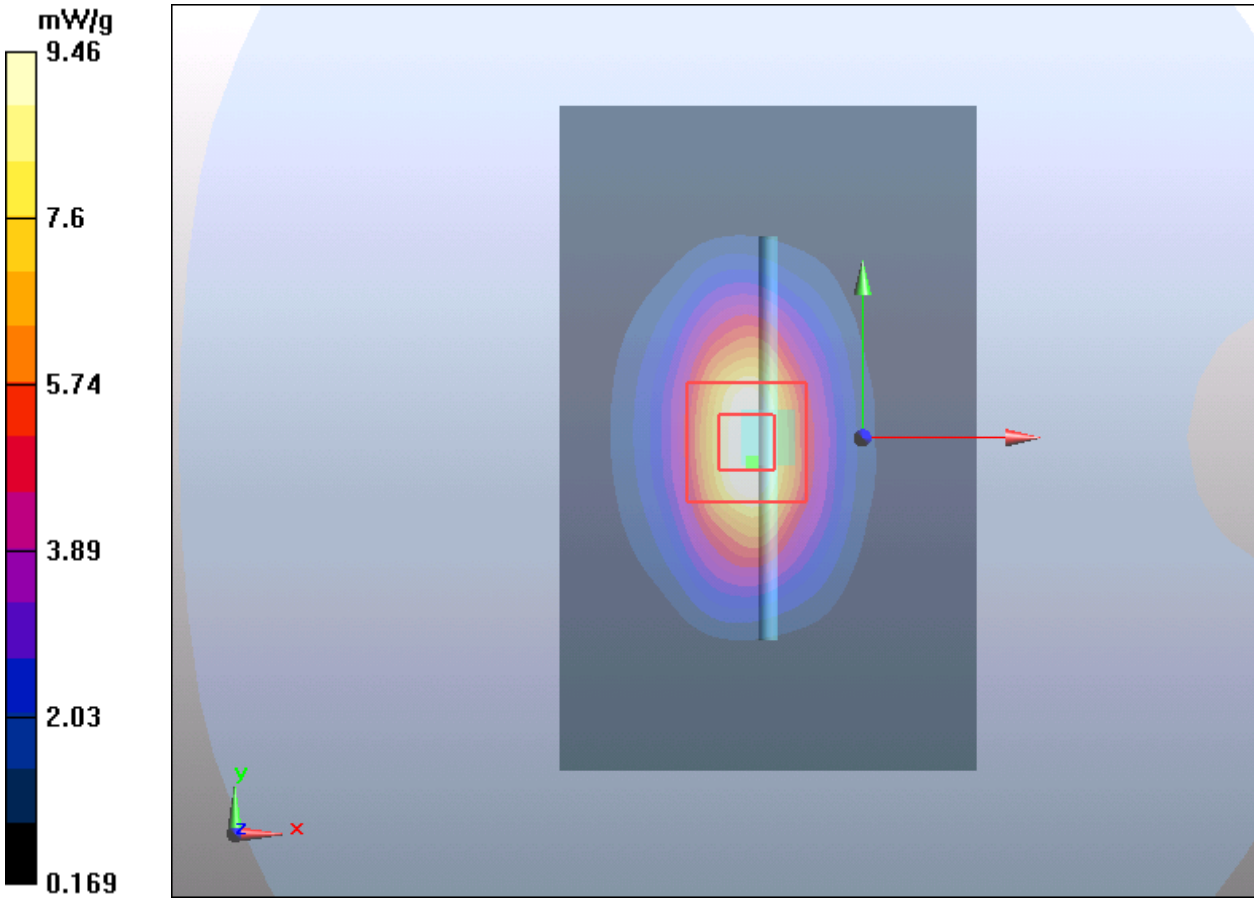
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 80 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 15.47 W/kg

SAR(1 g) = 8.96 mW/g; SAR(10 g) = 4.75 mW/g

Maximum value of SAR (measured) = 9.46 mW/g



Plot 22 System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d060

Date: 2022/7/5

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.40 S/m; ε_r = 40.0; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.9 mW/g

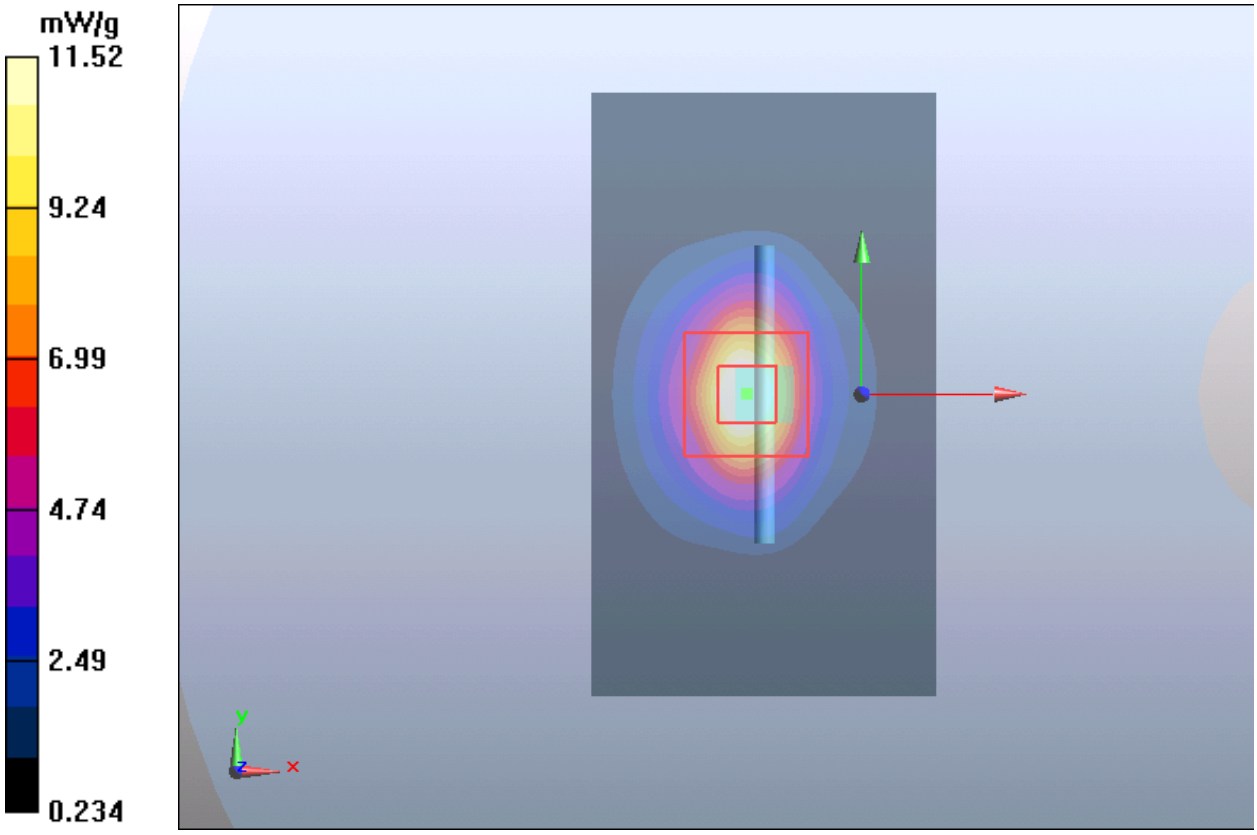
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.8 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 9.55 mW/g; SAR(10 g) = 4.99 mW/g

Maximum value of SAR (measured) = 11.52 mW/g



Plot 23 System Performance Check at 2450 MHz TSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 786

Date: 2022/7/5

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.84 S/m; ε_r = 38.5; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.50, 7.50, 7.50); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 21.0 mW/g

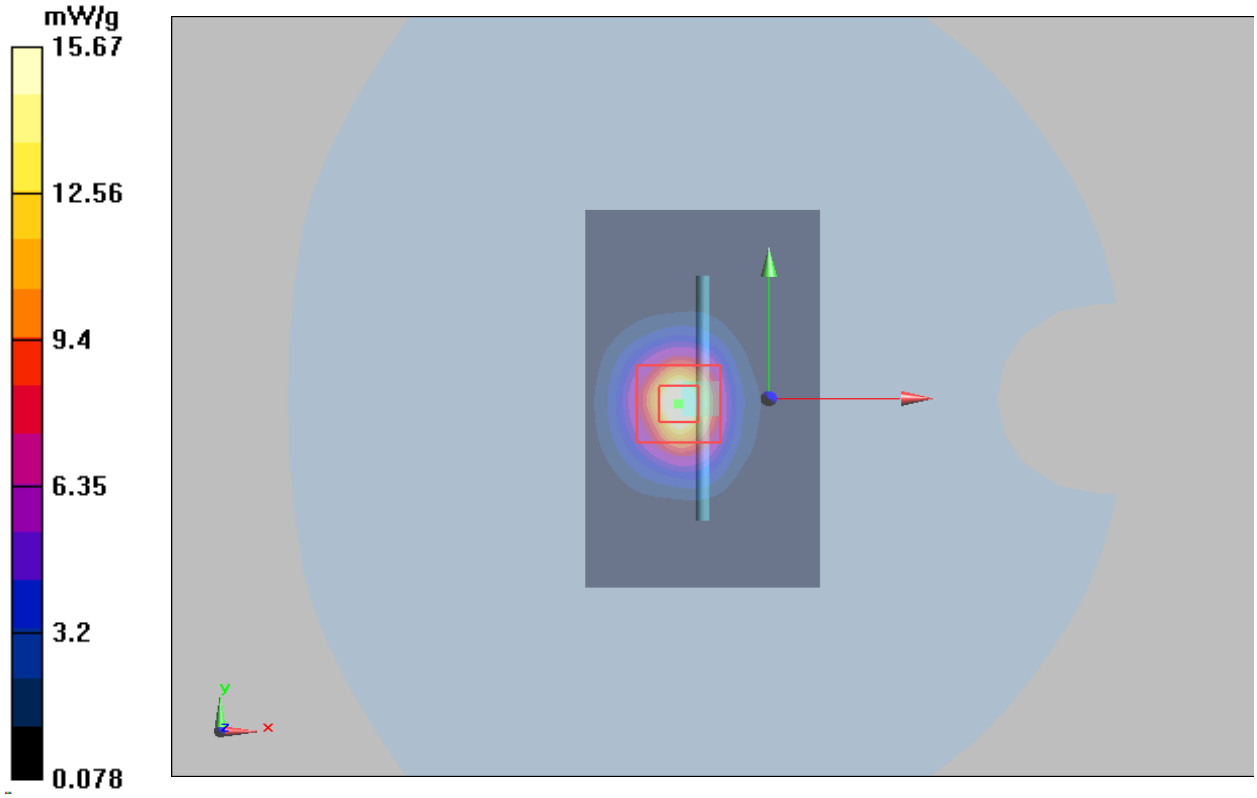
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 67.0 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.64 mW/g; SAR(10 g) = 6.15 mW/g

Maximum value of SAR (measured) = 15.67 mW/g



Plot 24 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1025

Date: 2022/7/5

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; σ = 1.99 S/m; ε_r = 38.3; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 17.32 mW/g

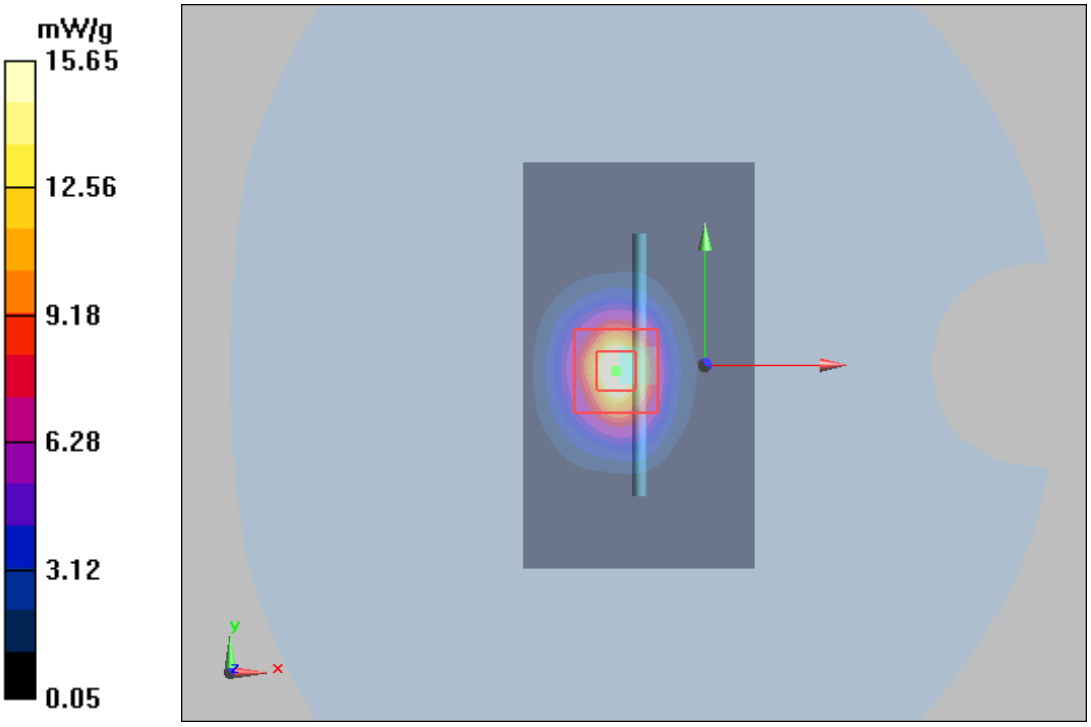
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.465 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 31.85 W/kg

SAR(1 g) = 13.94 mW/g; SAR(10 g) = 6.11 mW/g

Maximum value of SAR (measured) = 15.65 mW/g



Plot 25 System Performance Check at 5250 MHz TSL

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/7/6

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; σ = 4.80 S/m; ε_r = 35.5; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.14 mW/g

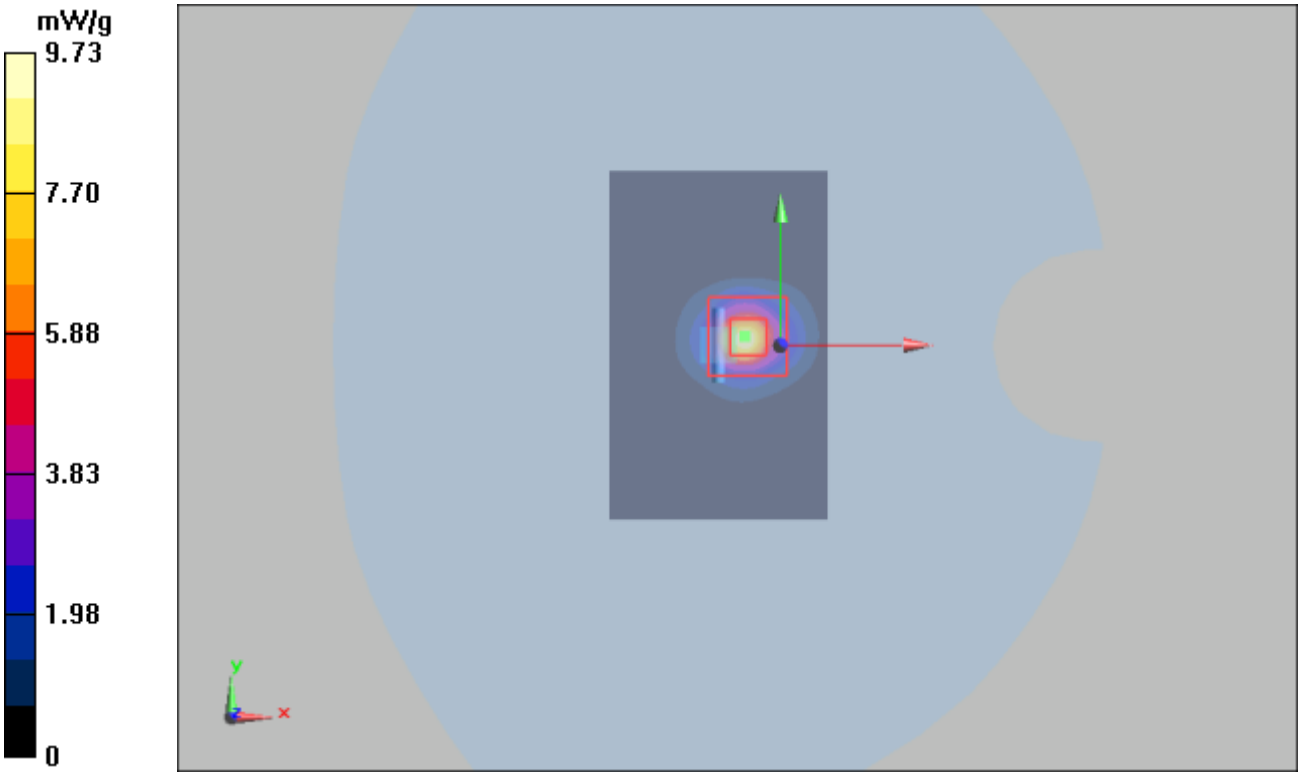
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 33.6 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 52.2 W/kg

SAR(1 g) = 7.87 mW/g; SAR(10 g) = 2.25 mW/g

Maximum value of SAR (measured) = 9.73 mW/g



Plot 26 System Performance Check at 5600 MHz TSL

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/7/6

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.19 S/m; ε_r = 35.5; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.00, 5.00, 5.00); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 8.31 mW/g

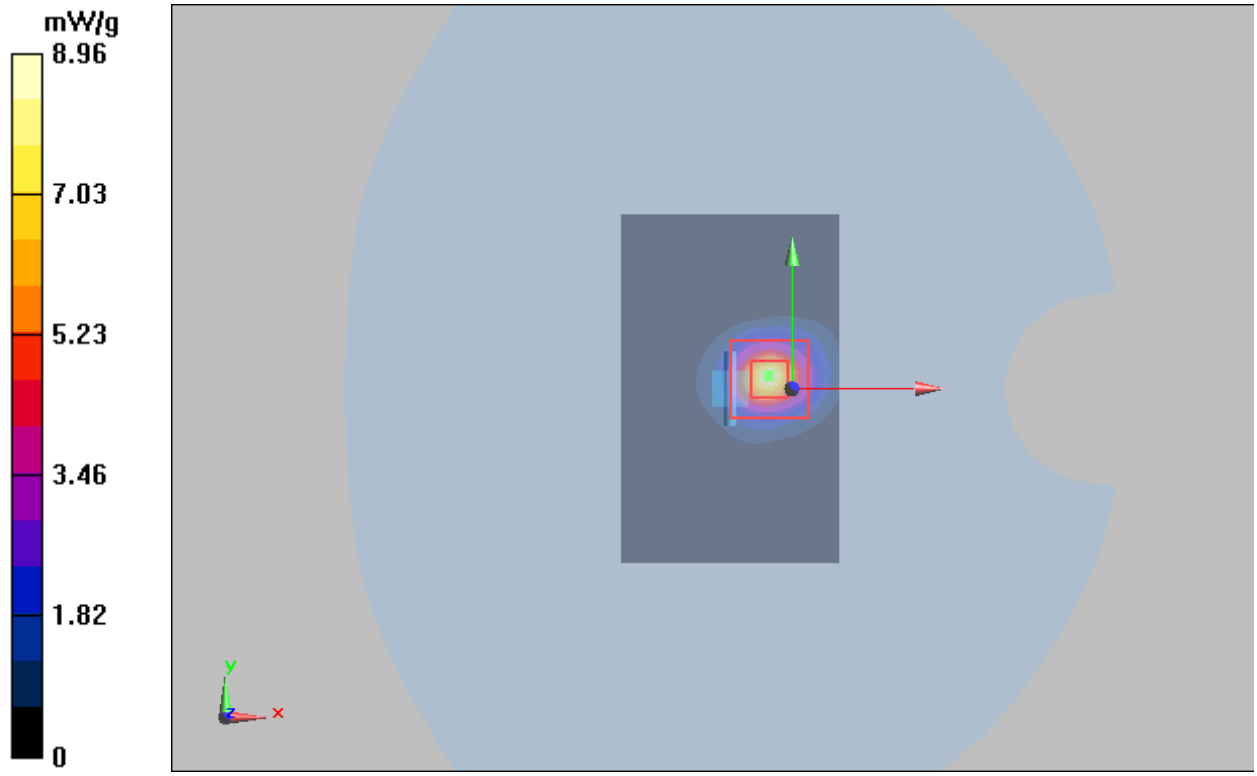
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.1 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 7.94 mW/g; SAR(10 g) = 2.29 mW/g

Maximum value of SAR (measured) = 8.96 mW/g



Plot 27 System Performance Check at 5750 MHz TSL

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1151

Date: 2022/7/6

Communication System: CW; Frequency: 5750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; σ = 5.28 S/m; ε_r = 35.0; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.04, 5.04, 5.04); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 8.25 mW/g

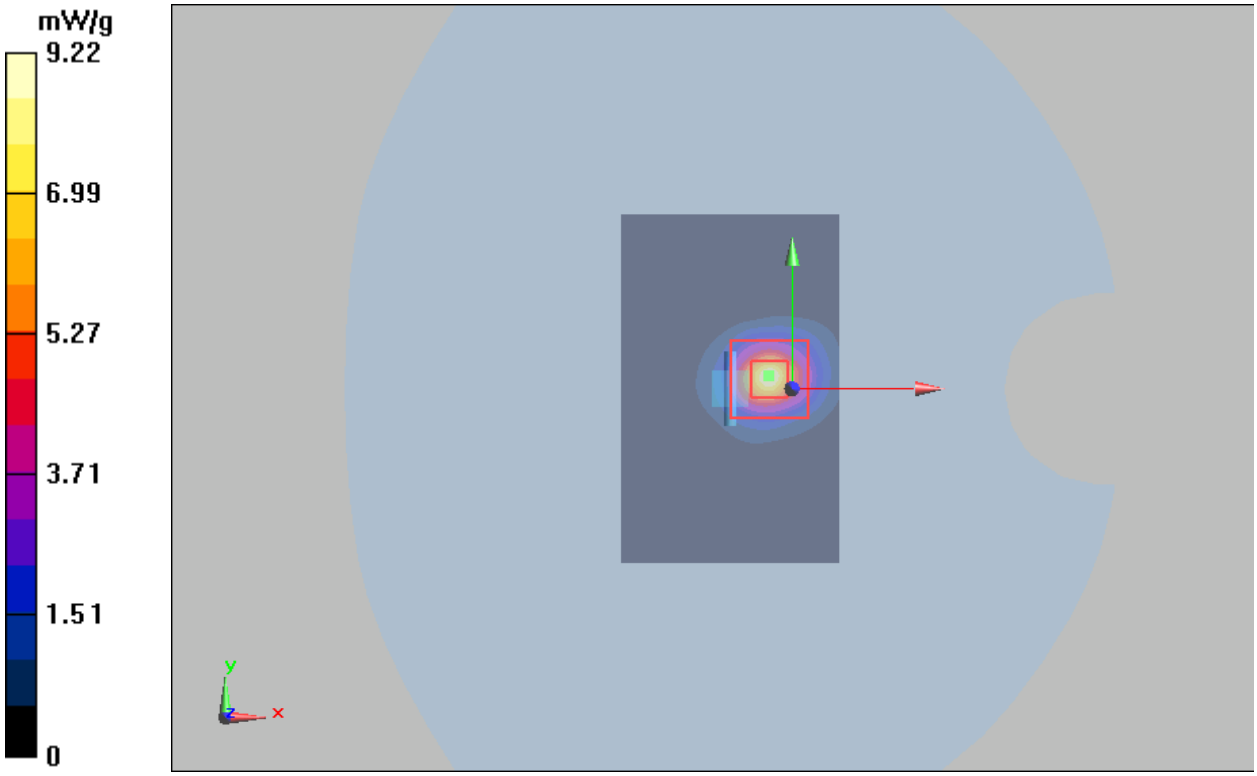
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.1 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 22.9 W/kg

SAR(1 g) = 7.72 mW/g; SAR(10 g) = 2.13 mW/g

Maximum value of SAR (measured) = 9.22 mW/g



ANNEX C: Highest Graph Results

Plot 28 GSM 850 Left Cheek Middle

Date: 2022/7/4

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used: f = 836.6 MHz; σ = 0.953 S/m; ε_r = 39.762; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.219 W/kg

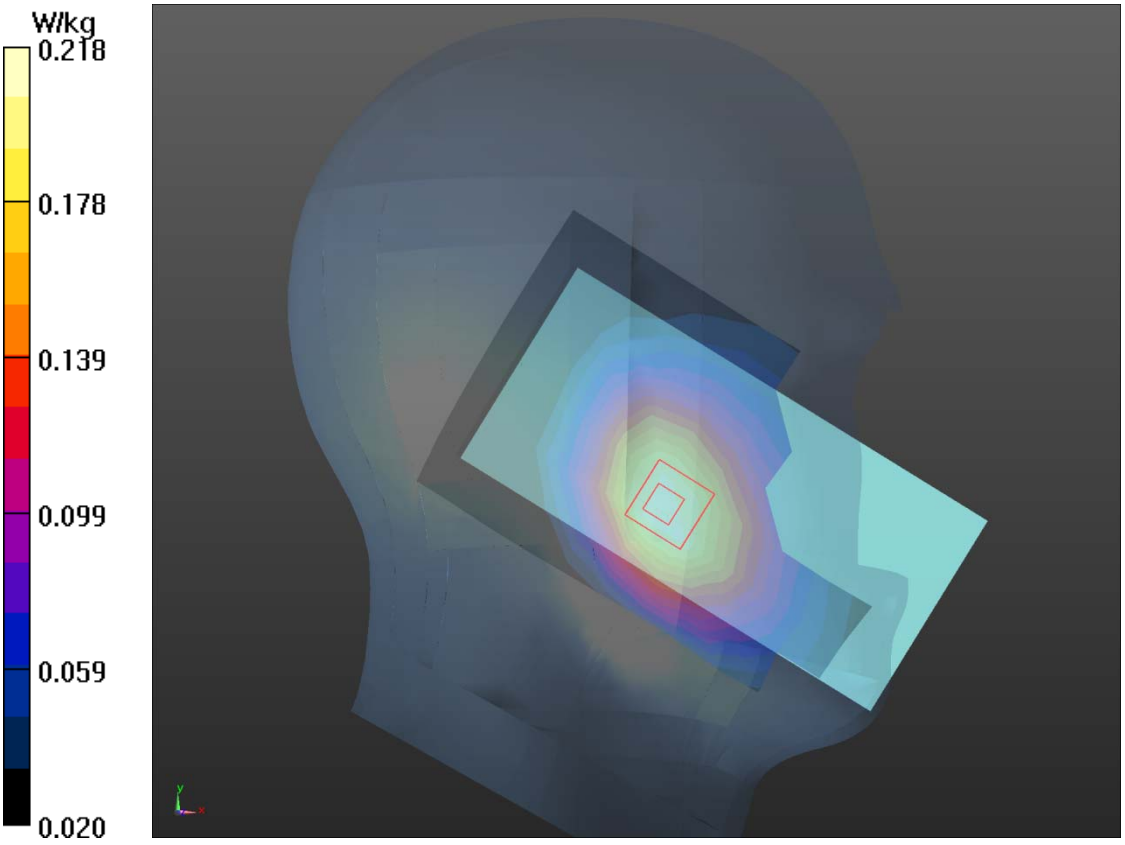
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.441 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.218 W/kg

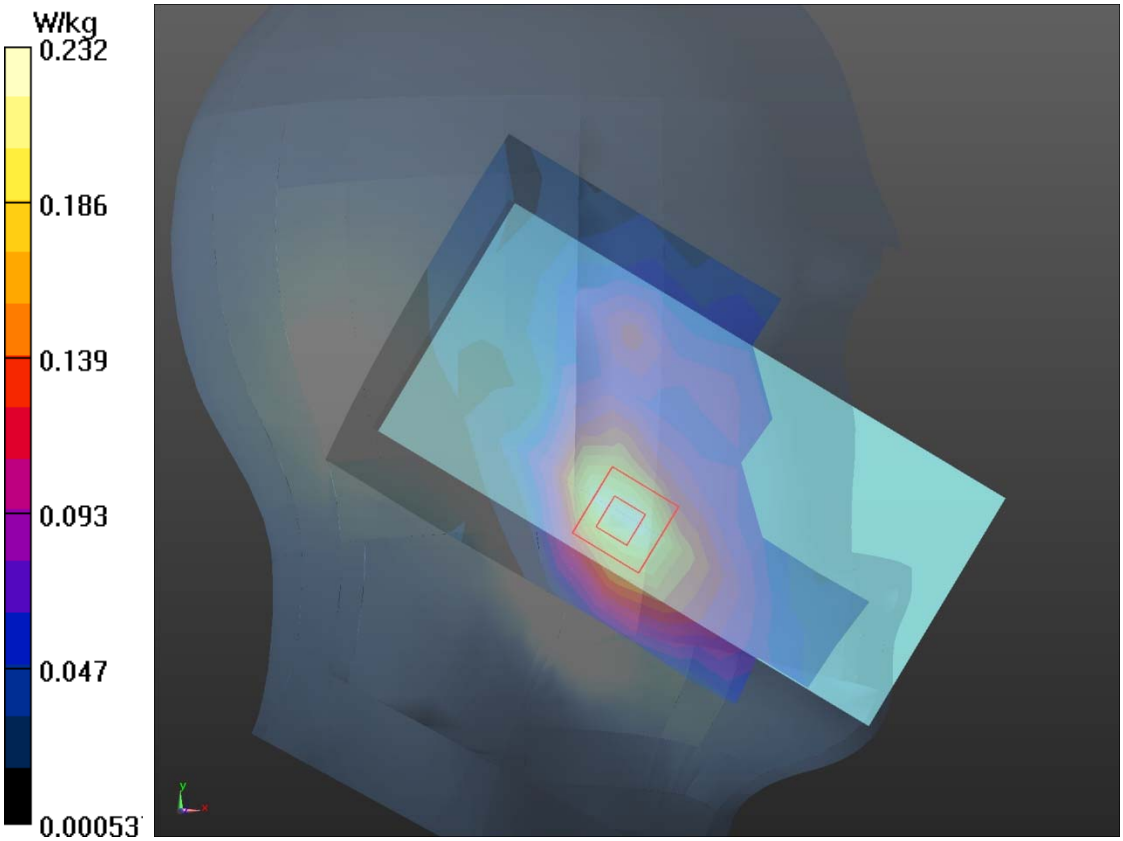


Plot 29 GSM 1900 Right Tilt Middle

Date: 2022/1/21
Communication System: UID 0, GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30
Medium parameters used: f = 1880 MHz; σ = 1.42 S/m; ε_r = 38.948; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Left Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Left Cheek Middle /Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.187 W/kg

Left Cheek Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.340 V/m; Power Drift = 0.032 dB
Peak SAR (extrapolated) = 0.52 W/kg
SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.232 W/kg



Plot 30 UMTS Band II Right Tilt Middle

Date: 2022/7/5

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.42 S/m; ε_r = 38.948; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Right Tilt Middle /Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.736 W/kg

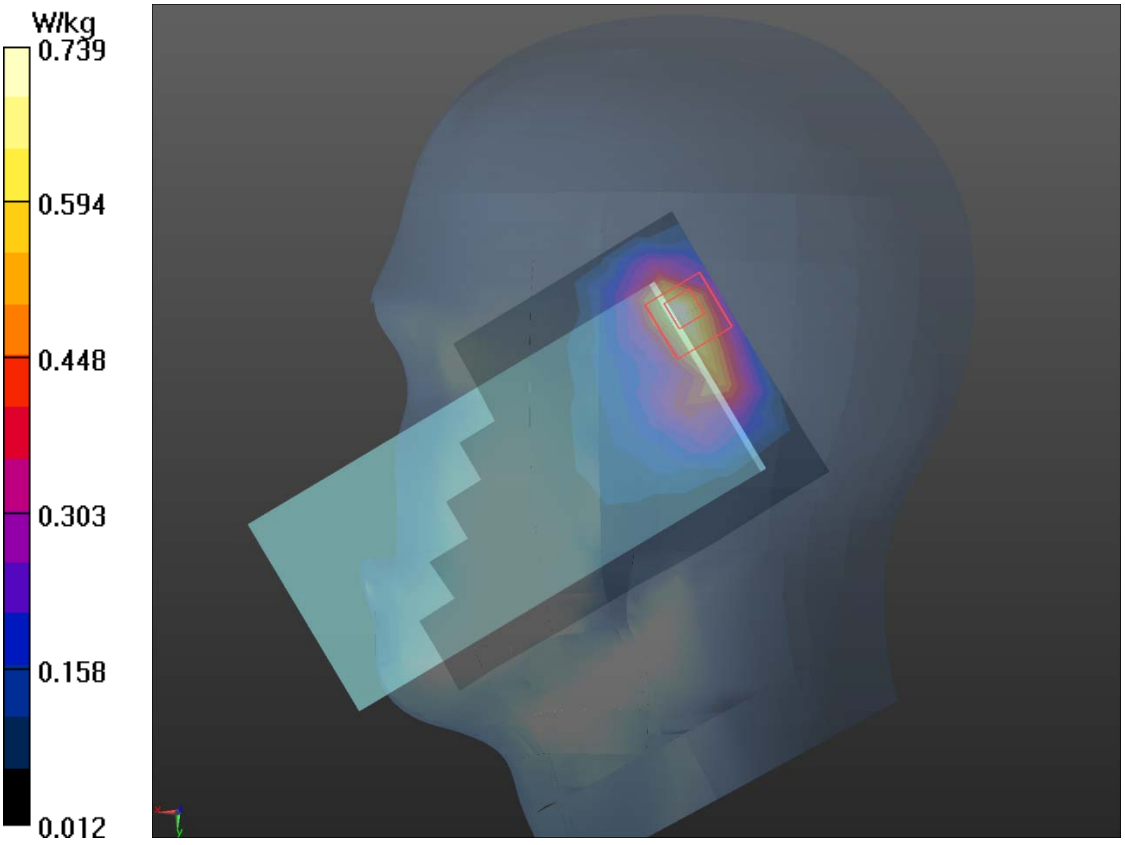
Right Tilt Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.52 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.336 W/kg

Maximum value of SAR (measured) = 0.739 W/kg



Plot 31 UMTS Band IV Right Tilt Middle (Battery 2)

Date: 2022/1/22

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1733 MHz; σ = 1.312 S/m; ε_r = 39.365; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Right Tilt Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.529 W/kg

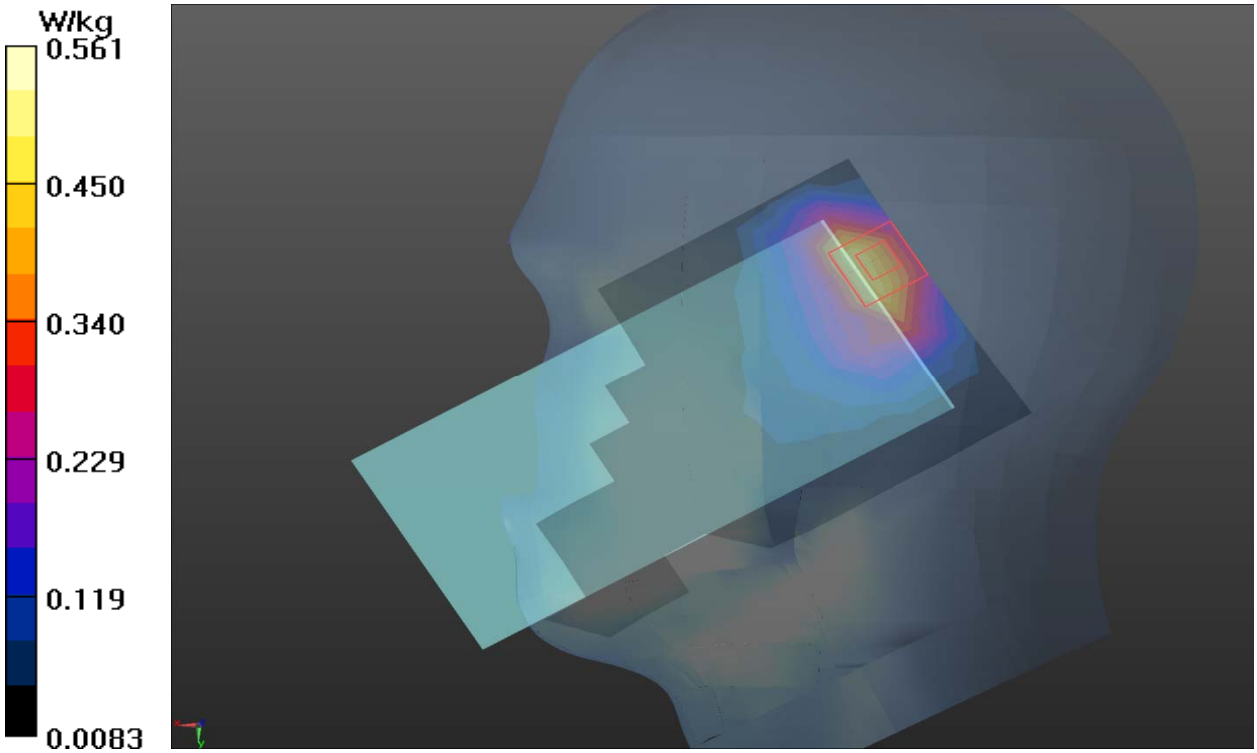
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.74 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.544 W/kg



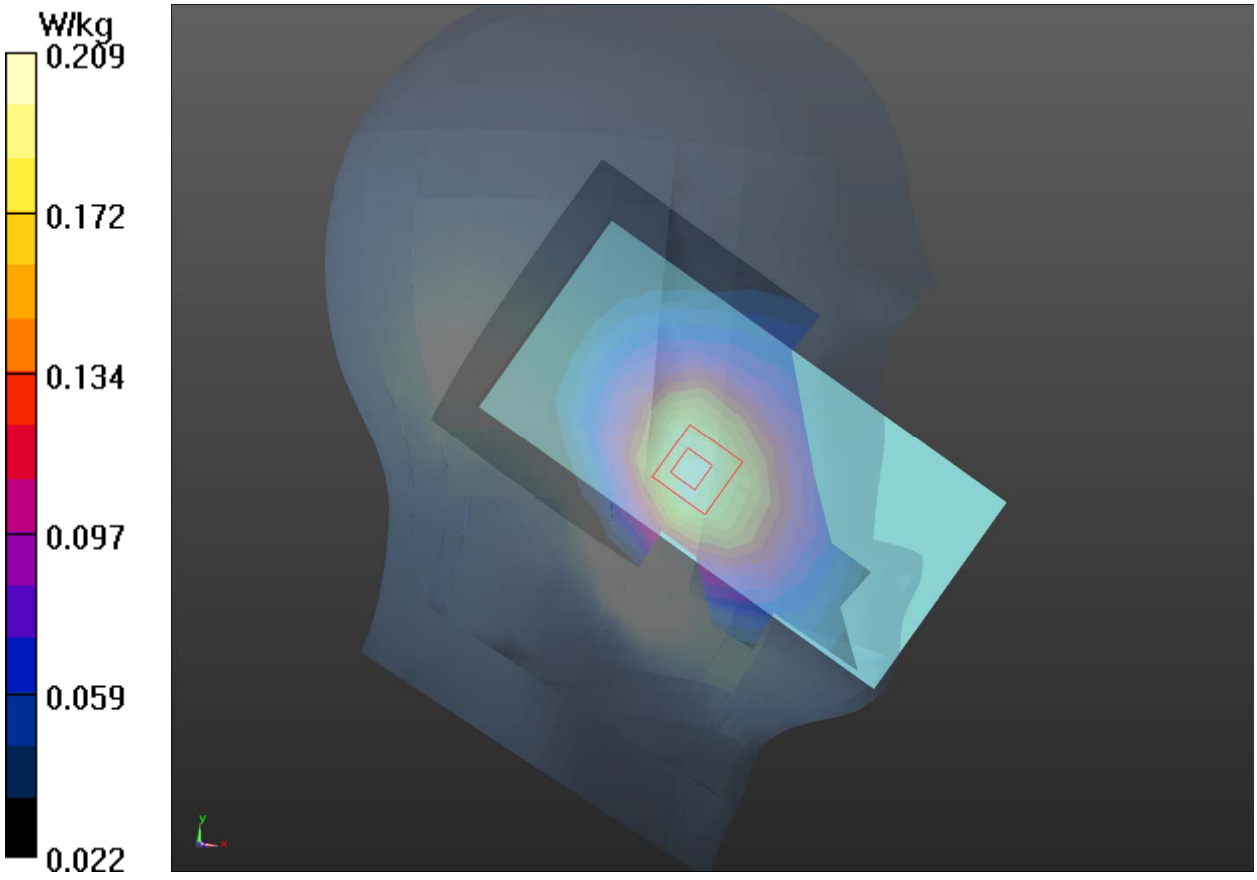
Plot 32 UMTS Band V Left Cheek Middle

Date: 2022/1/14
Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 837 MHz; σ = 0.953 S/m; ε_r = 39.762; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Left Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Left Cheek Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.205 W/kg

Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.798 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.255 W/kg
SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



Plot 33 LTE Band 2 1RB Right Tilt Middle

Date: 2022/1/20

Communication System: UID 0, LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.42 S/m; ε_r = 38.948; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Right Tilt Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.754 W/kg

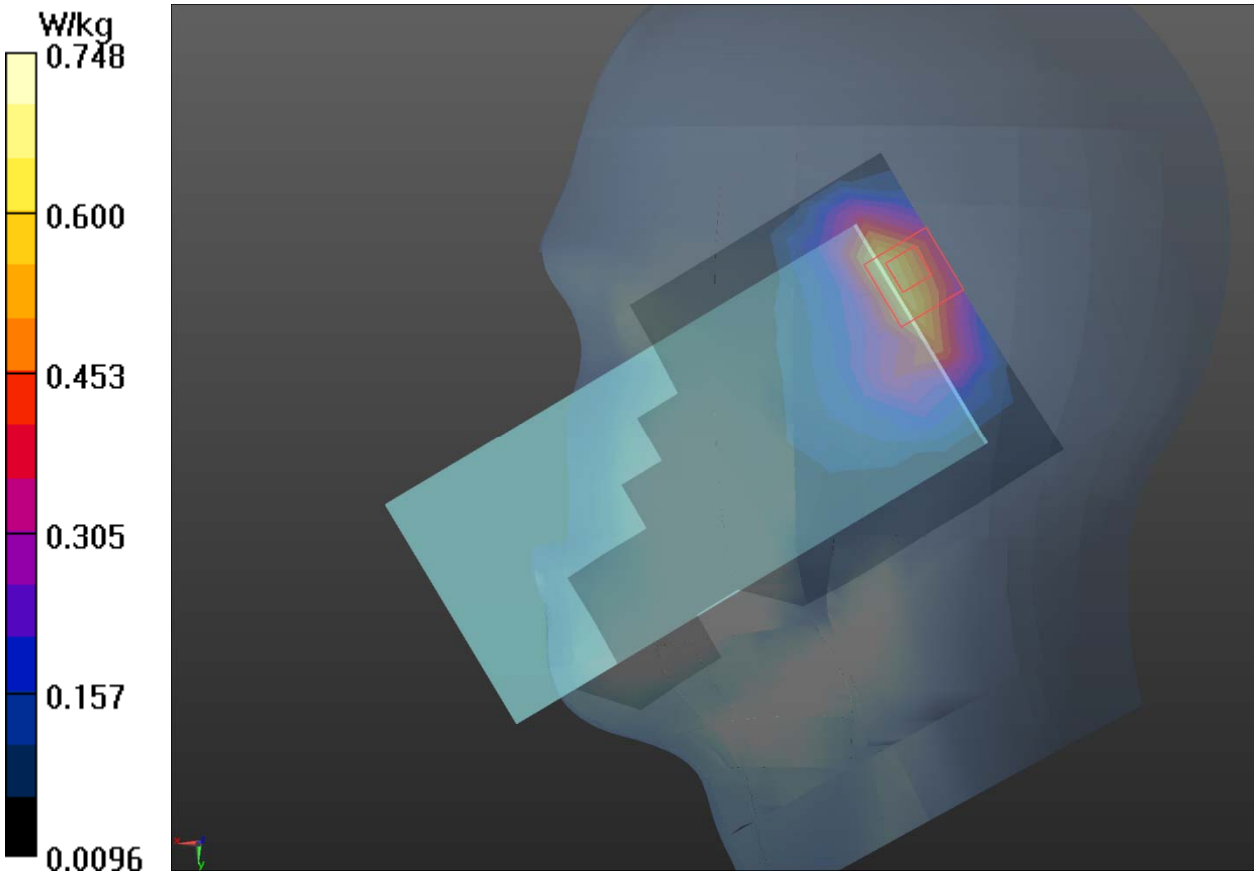
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.70 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.349 W/kg

Maximum value of SAR (measured) = 0.748 W/kg



Plot 34 LTE Band 4 1RB Right Tilt Middle (Battery 2)

Date: 2022/1/23

Communication System: UID 0, LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.313 S/m; ε_r = 39.384; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Right Tilt Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.601 W/kg

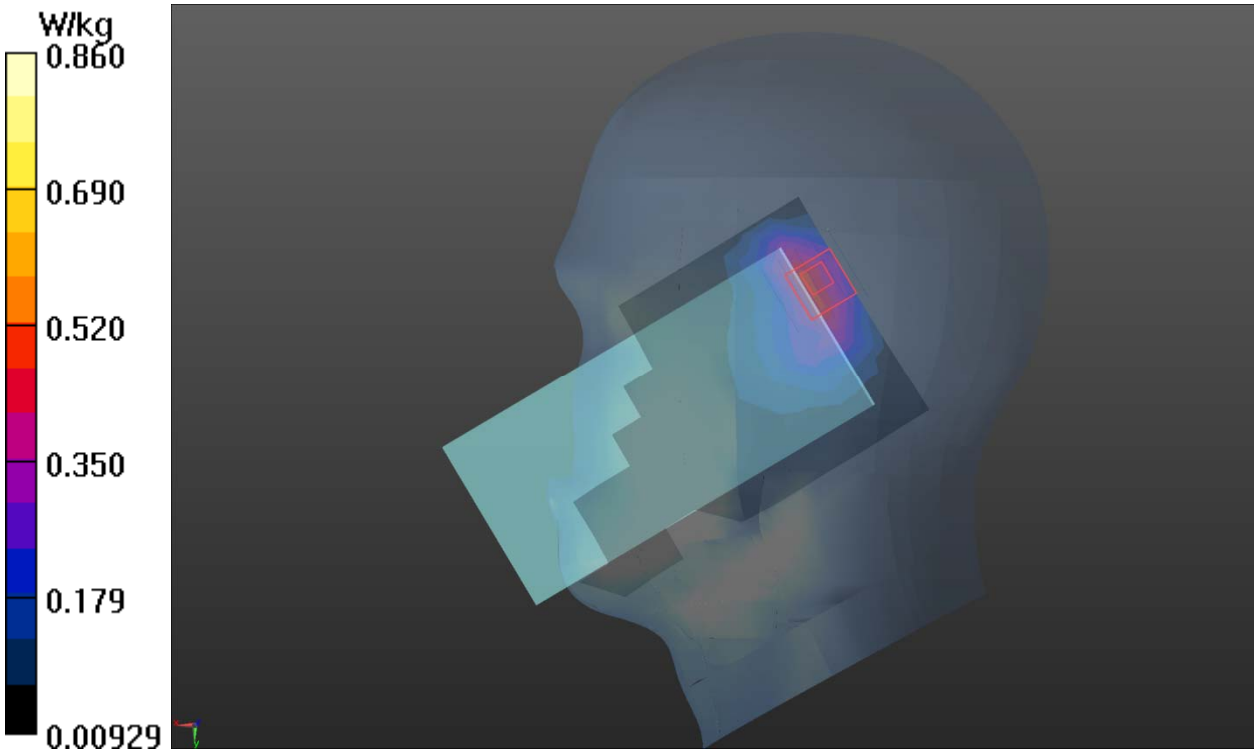
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.04 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.86 W/kg



Plot 35 LTE Band 5 1RB Left Cheek High (Battery 2)

Date: 2022/1/14

Communication System: UID 0, LTE (0); Frequency: 844 MHz;Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; σ = 0.958 S/m; ε_r = 39.728; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek High/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.273 W/kg

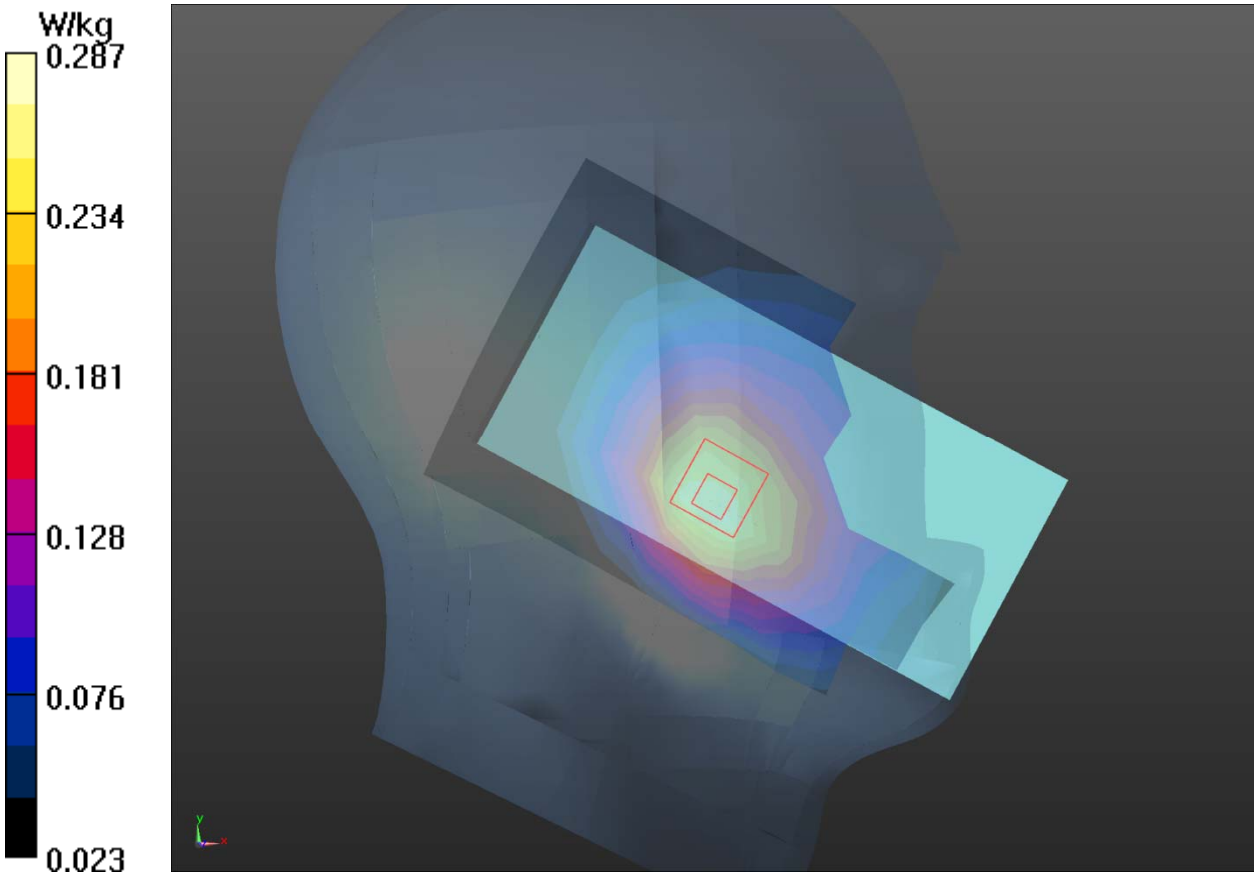
Left Cheek High /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.606 V/m; Power Drift = 0.169 dB

Peak SAR (extrapolated) = 0.320 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.170 W/kg

Maximum value of SAR (measured) = 0.287 W/kg



Plot 36 LTE Band 7 50%RB Left Cheek Low

Date: 2022/1/17

Communication System: UID 0, LTE (0); Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2510 MHz; σ = 1.91 S/m; ε_r = 37.398; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.614 W/kg

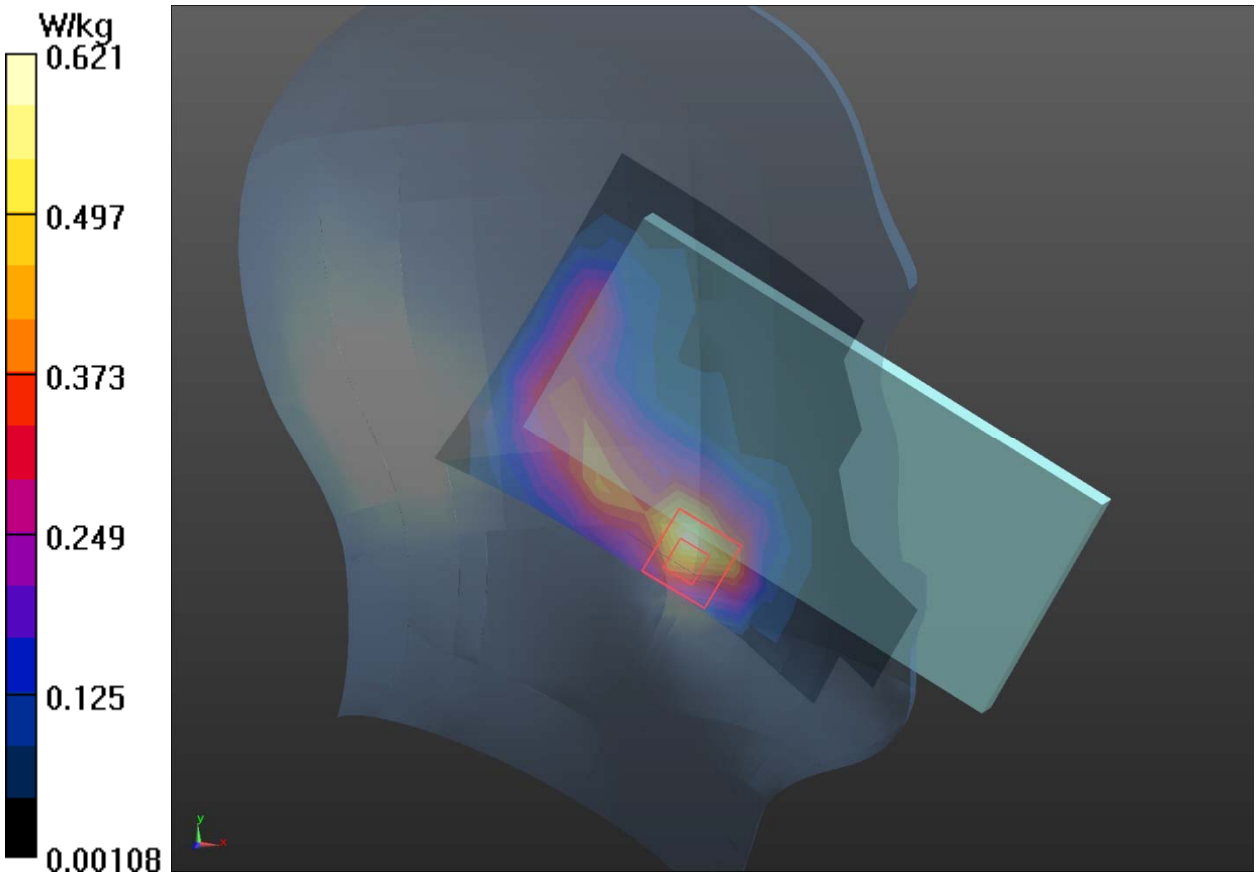
Left Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.01 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.275 W/kg

Maximum value of SAR (measured) = 0.621 W/kg



Plot 37 LTE Band 13 1RB Left Cheek Middle (Battery 2)

Date: 2022/7/4

Communication System: UID 0, LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium parameters used: f = 782 MHz; σ = 0.917 S/m; ε_r = 40.132; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.64, 9.64, 9.64); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.083 W/kg

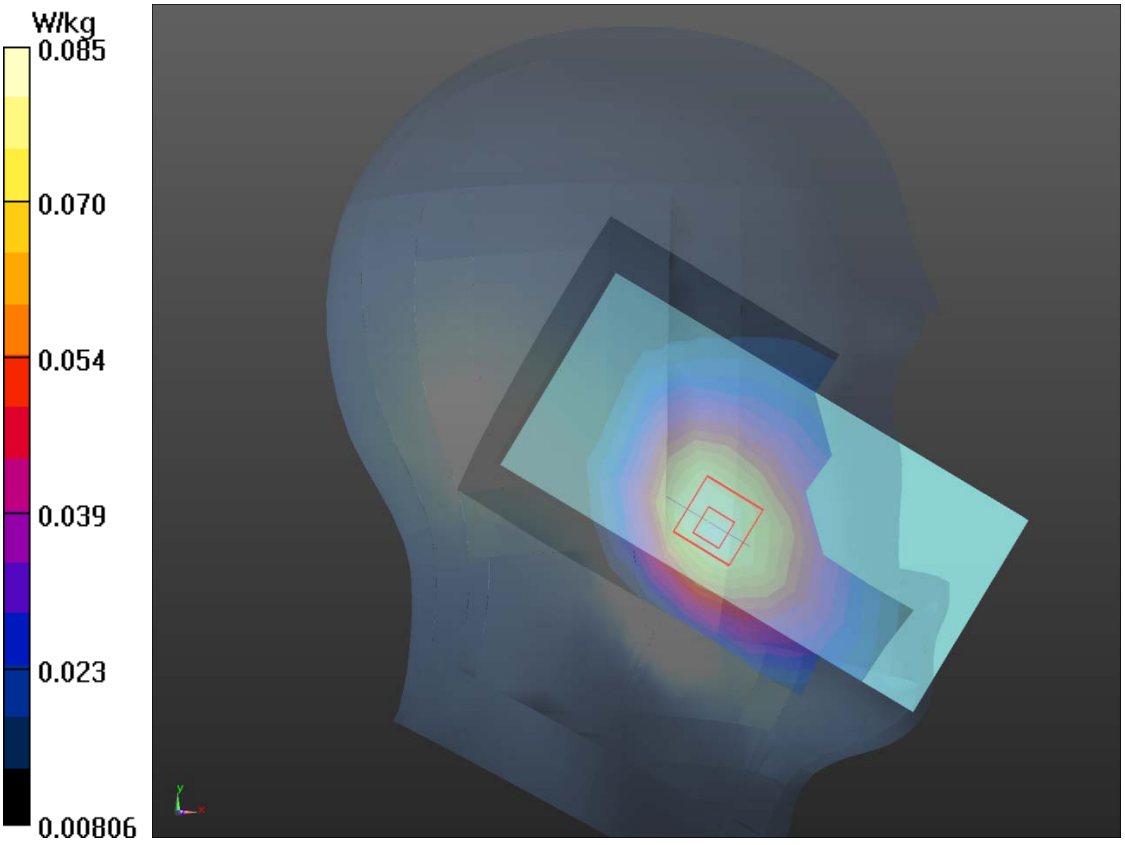
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.659 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.062 W/kg

Maximum value of SAR (measured) = 0.085 W/kg



Plot 38 LTE Band 26 1RB Left Cheek Middle

Date: 2022/7/4

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.95 S/m; ε_r = 39.79; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Middle /Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.231 W/kg

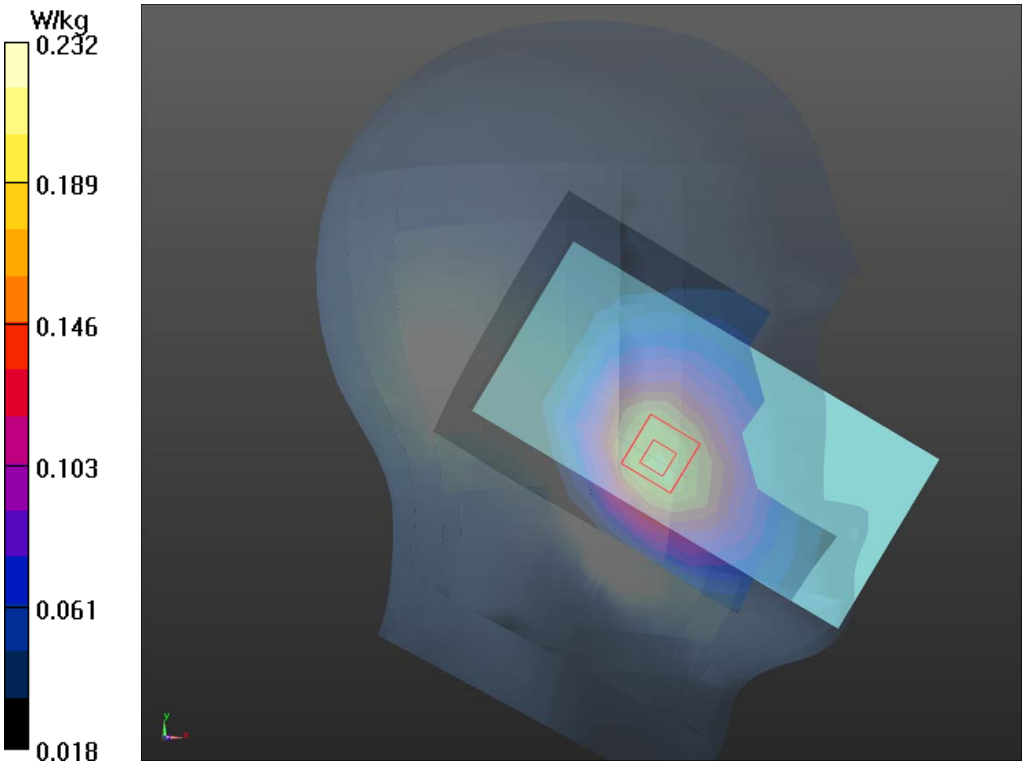
Left Cheek Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.541 V/m; Power Drift = 0.091 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.223W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.232 W/kg



Plot 39 LTE Band 38 1RB Left Cheek Middle (Battery 2)

Date: 2022/7/5

Communication System: UID 0, LTE (0); Frequency: 2595 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2595 MHz; σ = 2.011 S/m; ε_r = 37.134; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.646 W/kg

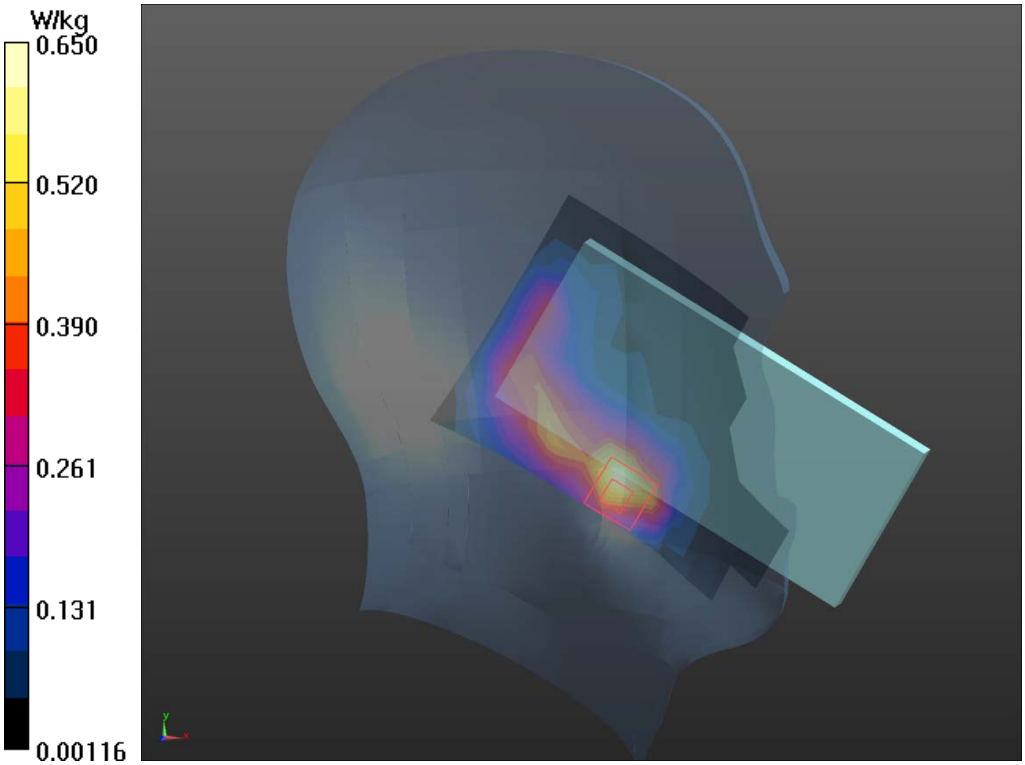
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.12 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.650 W/kg



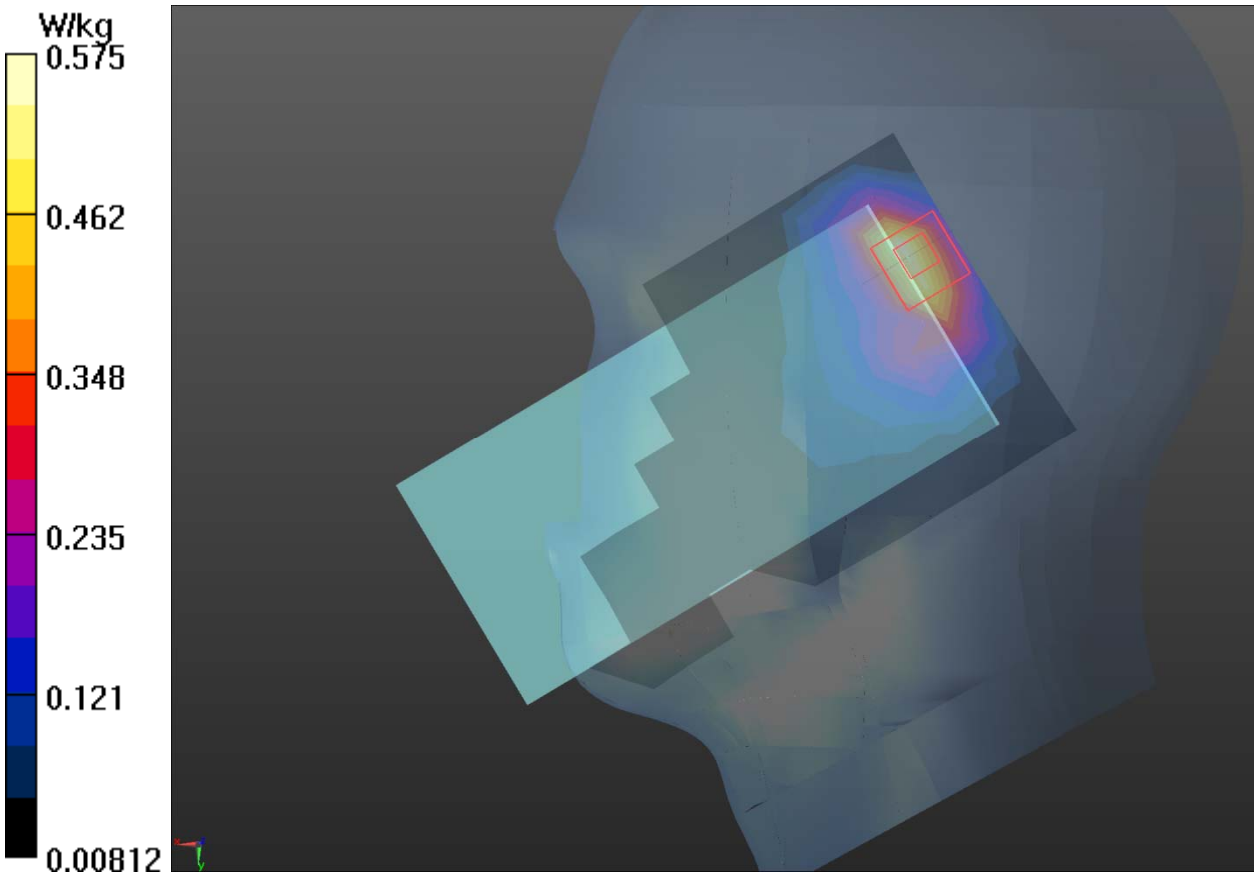
Plot 40 LTE Band 66 50% Right Tilt High

Date: 2022/1/18
Communication System: UID 0, LTE (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1770 MHz; σ = 1.341 S/m; ε_r = 39.287; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Right Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Right Tilt High/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.561 W/kg

Right Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.66 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.575 W/kg



Plot 41 802.11b Left Cheek Low (Battery 2)

Date: 2022/7/5

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz;Duty Cycle: 1:1.01

Medium parameters used: f = 2412 MHz; σ = 1.801 S/m; εr = 37.737; ρ = 1000 kg/m3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.50, 7.50, 7.50); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.791 W/kg

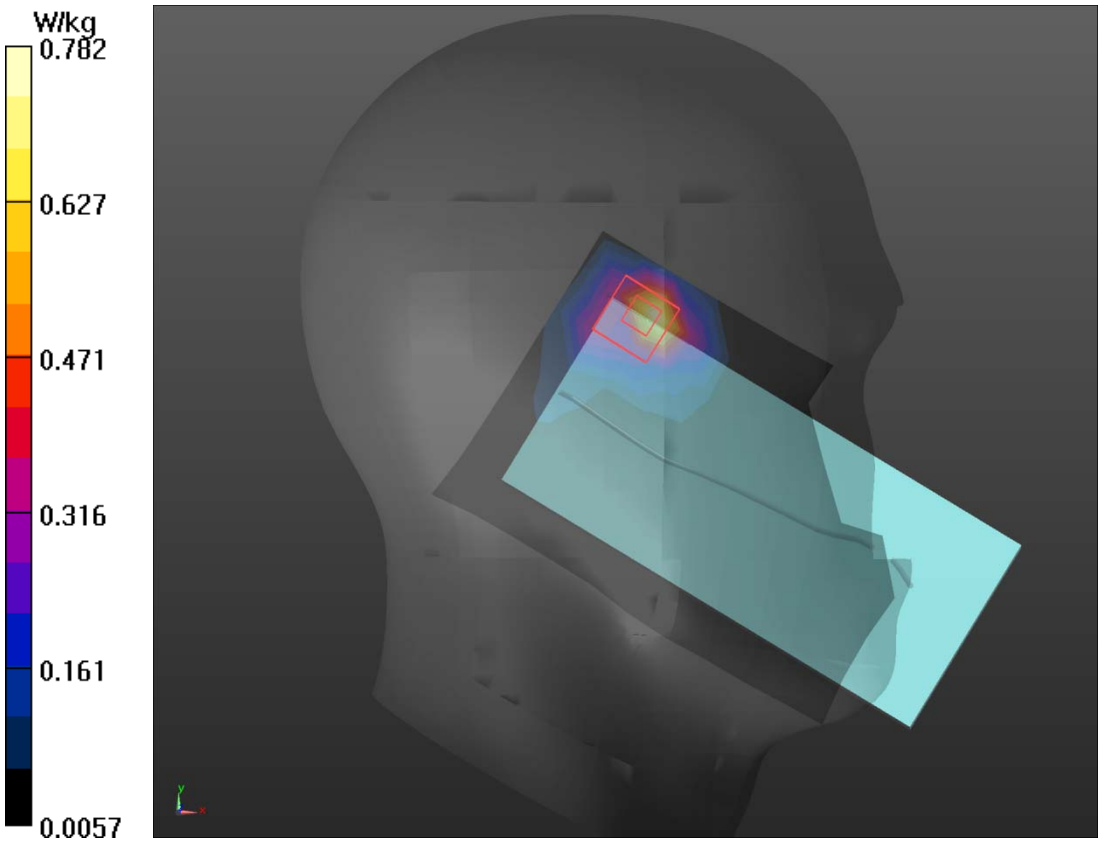
Left Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.547 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 0.782 W/kg



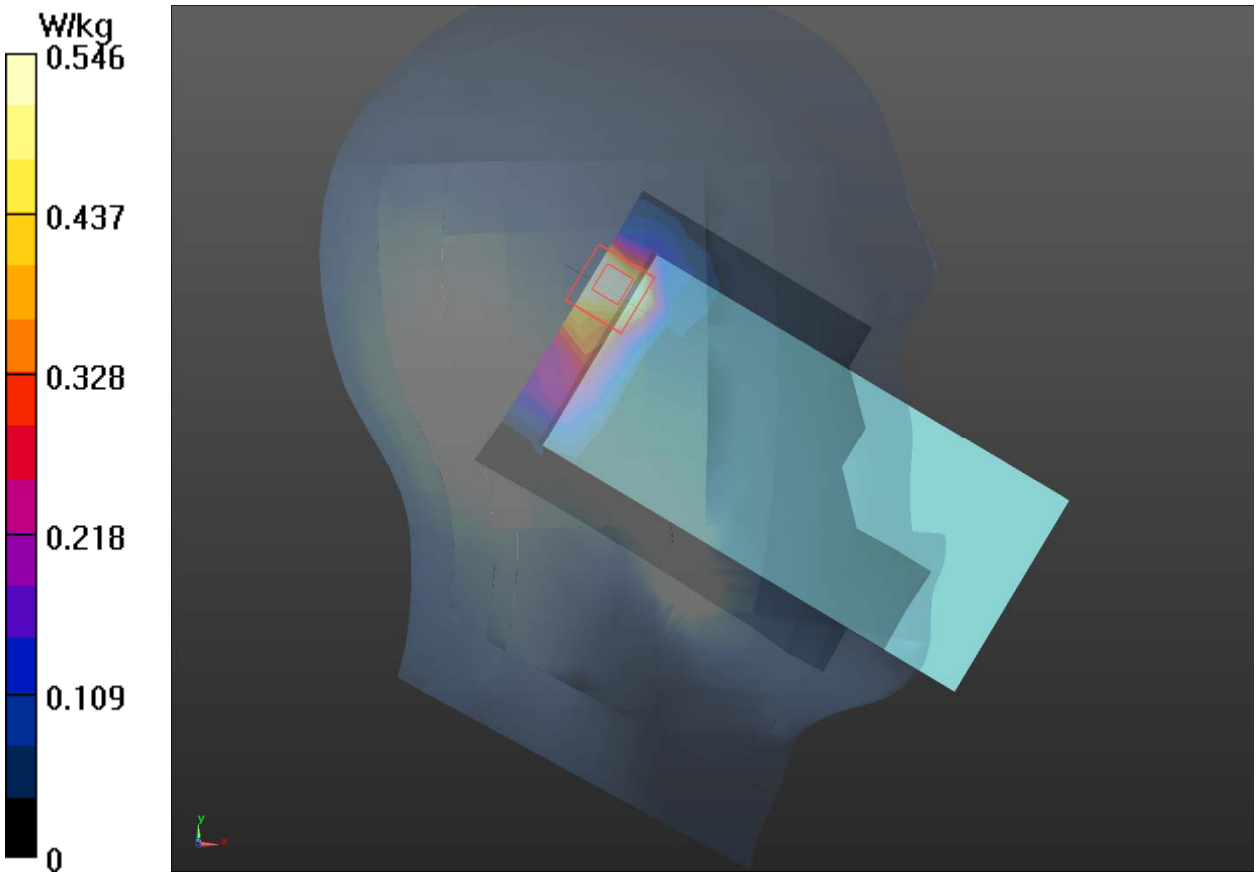
Plot 42 802.11ac-VHT80 U-NII-3 Left Tilt High

Date: 2022/1/28
Communication System: UID 0, 802.11ac-VHT80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1.075
Medium parameters used: f = 5775 MHz; σ = 5.48 S/m; ε_r = 35.329; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Left Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(5.04, 5.04, 5.04); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Left Tilt High/Area Scan (12x21x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.532 W/kg

Left Tilt High/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.307 V/m; Power Drift = 0.053 dB
Peak SAR (extrapolated) = 0.966 W/kg
SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.546 W/kg



Plot 43 Bluetooth Left Cheek Low

Date: 2022/7/5

Communication System: UID 0, BT (0); Frequency: 2402 MHz;Duty Cycle: 1:1.30

Medium parameters used: f = 2402 MHz; σ = 1.789 S/m; ε_r = 37.77; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.50, 7.50, 7.50); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Left Cheek Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.267 W/kg

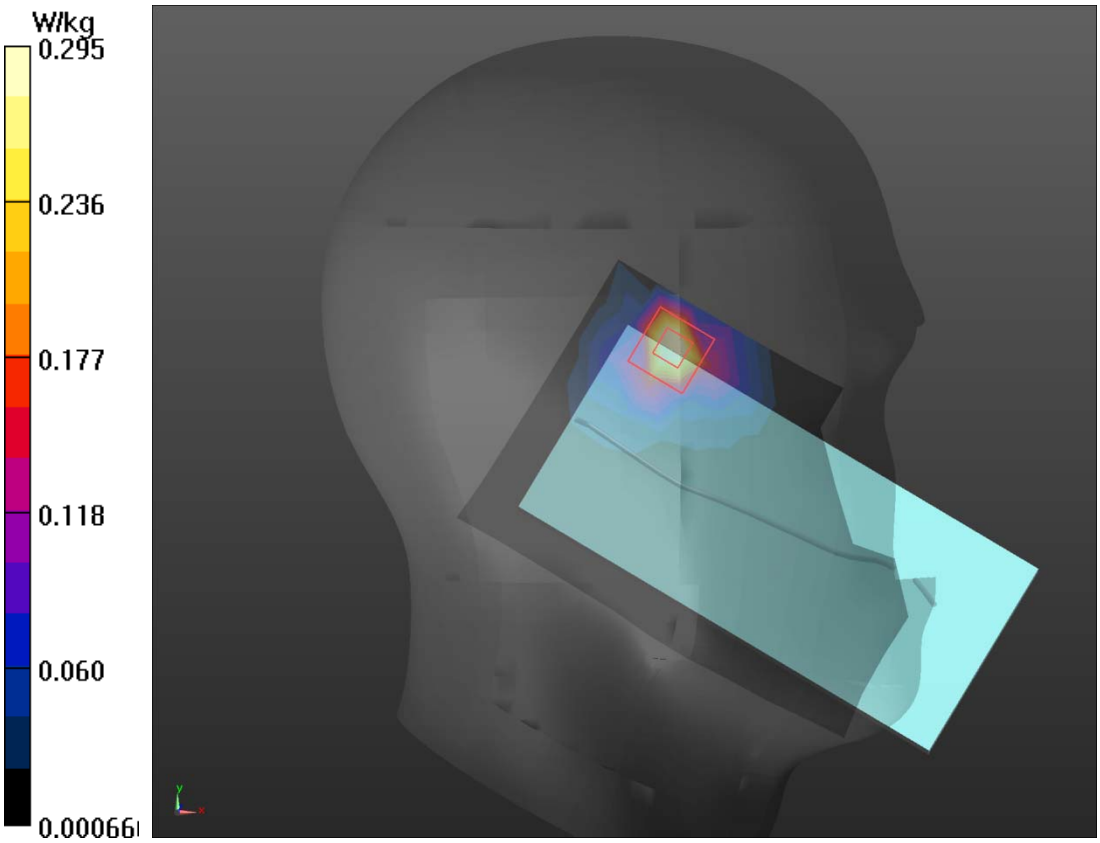
Left Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.077 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.295 W/kg



Plot 44 GSM 850 Back Side Middle (Battery 2, Distance 15mm)

Date: 2022/7/4

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used: f = 836.6 MHz; σ = 0.953 S/m; ε_r = 39.762; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP: 1666

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

Back Side 15mm/Mid/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.336 W/kg

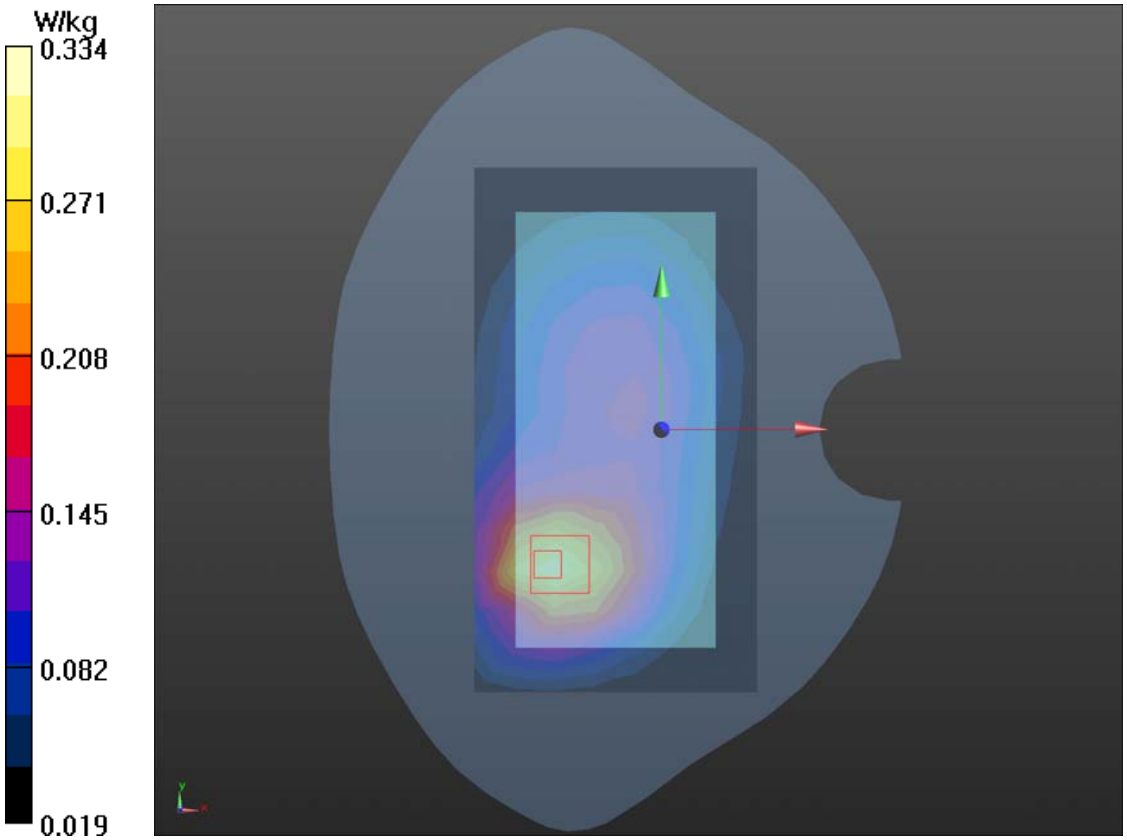
Back Side 15mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.09 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.215 W/kg

Maximum value of SAR (measured) = 0.334 W/kg



Plot 45 GSM 1900 Back Side Middle (Battery 2, Distance 15mm)

Date: 2022/1/21

Communication System: UID 0, GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30

Medium parameters used: f = 1880 MHz; σ = 1.393 S/m; ε_r = 38.344; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.264 W/kg

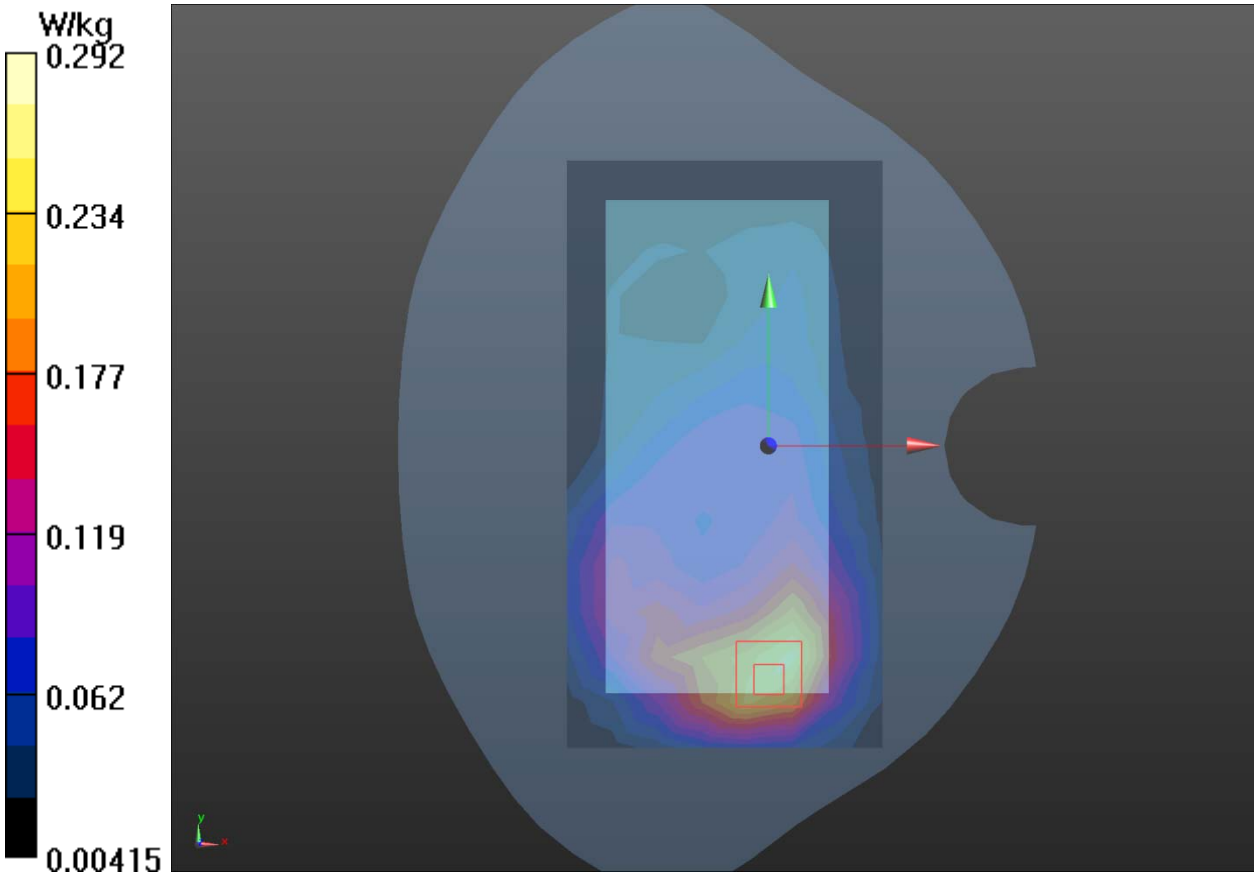
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.909 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.292 W/kg



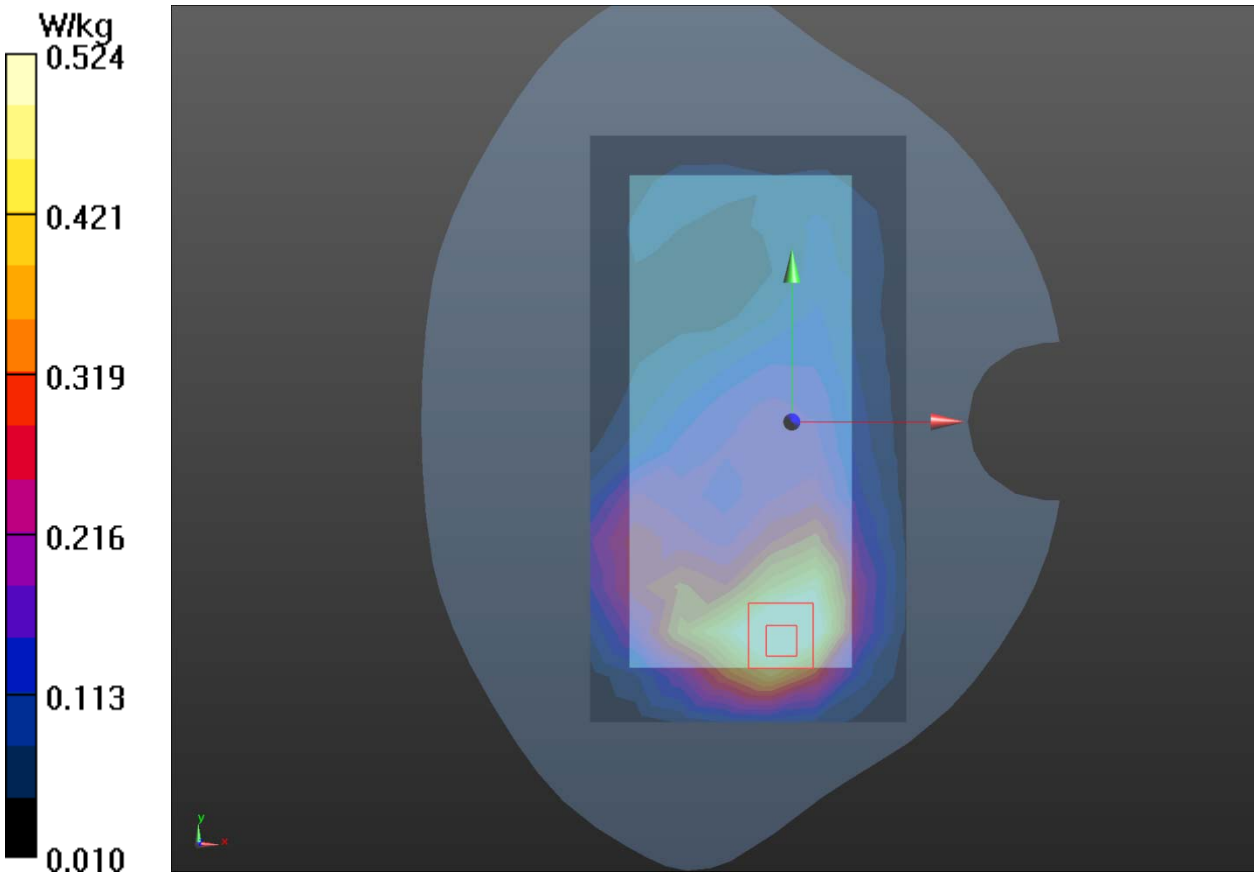
Plot 46 UMTS Band II Back Side Middle (Distance 15mm)

Date: 2022/1/24
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.393 S/m; ε_r = 38.344; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.533 W/kg

Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.39 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.766 W/kg
SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.261 W/kg

Maximum value of SAR (measured) = 0.524 W/kg



Plot 47 UMTS Band IV Back Side Middle (Battery 2, Distance 15mm)

Date: 2022/1/22

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1733 MHz; σ = 1.293 S/m; ε_r = 38.782; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.289 W/kg

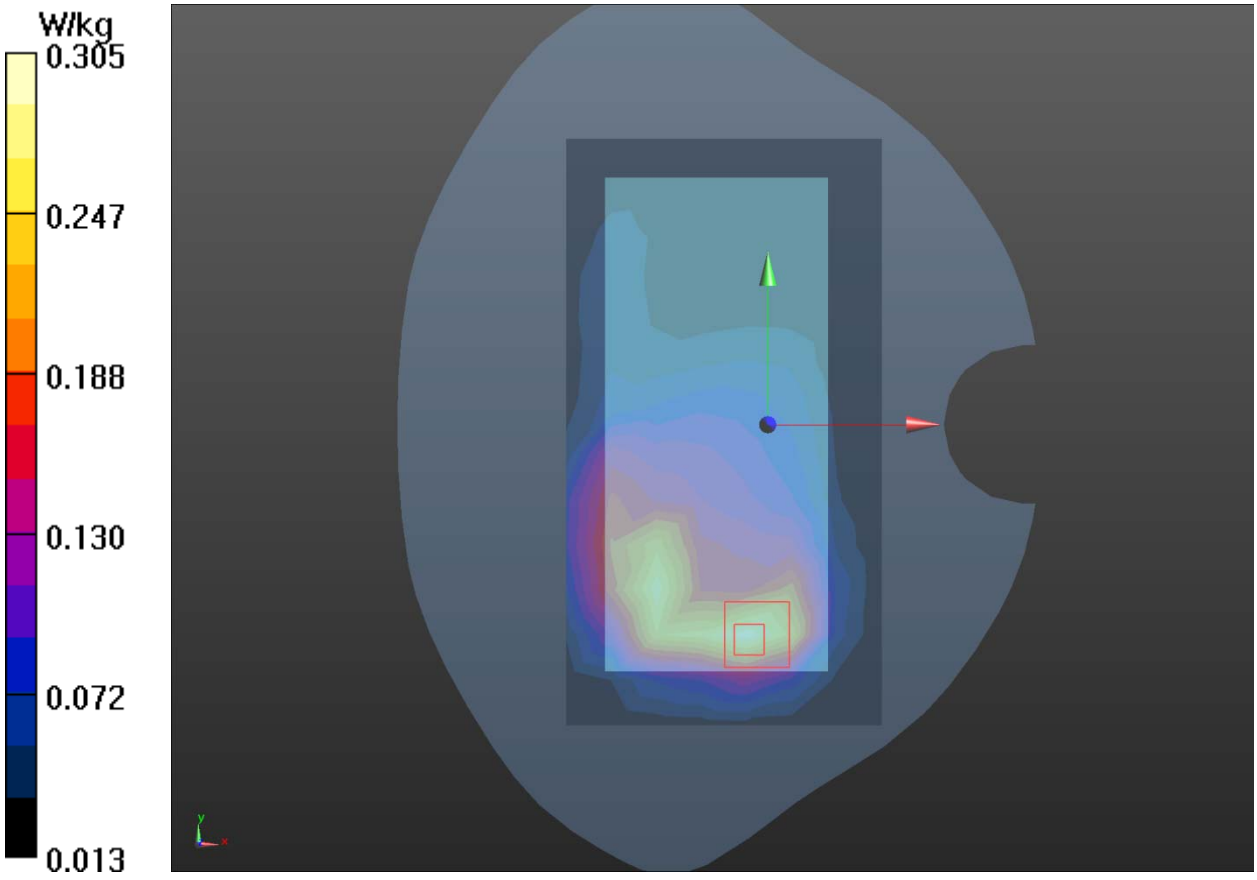
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.33 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.752 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.305 W/kg



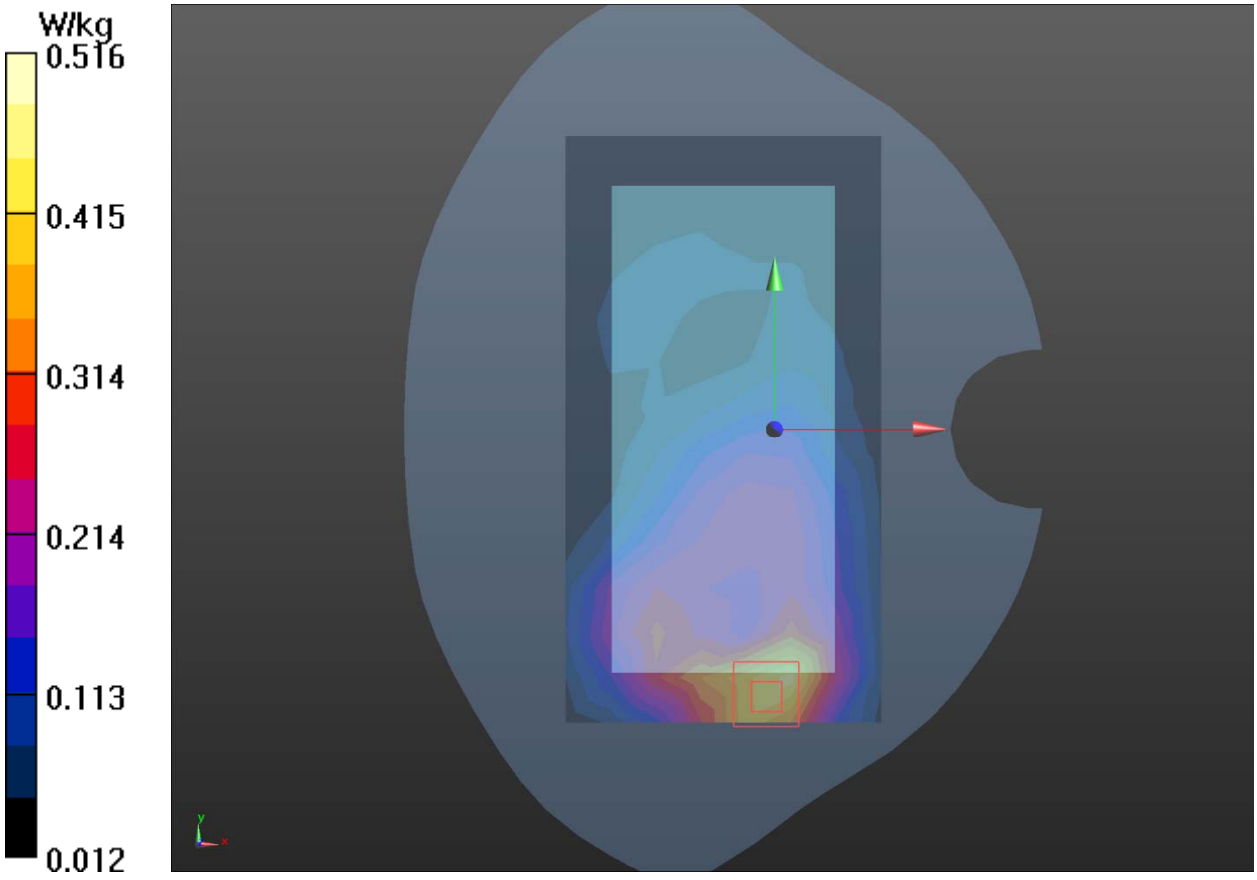
Plot 48 LTE Band 2 1RB Back Side Middle (Distance 15mm)

Date: 2022/1/20
Communication System: UID 0, LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.42 S/m; ε_r = 38.948; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.495 W/kg

Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.282 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.785 W/kg
SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.516 W/kg



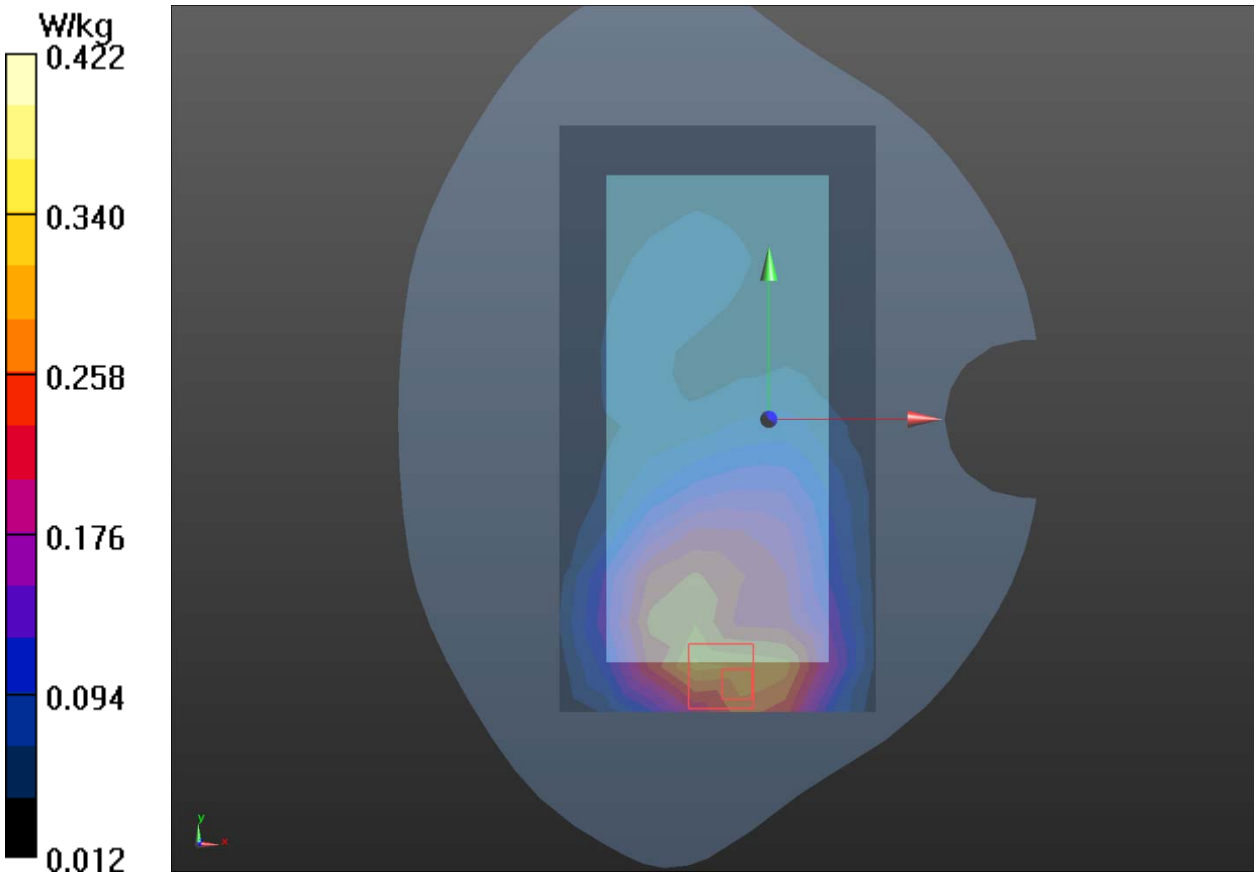
Plot 49 LTE Band 4 1RB Back Side High (Battery 2, Distance 15mm)

Date: 2022/1/19
Communication System: UID 0, LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1745 MHz; σ = 1.323 S/m; ε_r = 39.378; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side High/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.428 W/kg

Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.501 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 0.731 W/kg
SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.422 W/kg



Plot 50 LTE Band 7 1RB Back Side Middle (Distance 15mm)

Date: 2022/1/17

Communication System: UID 0, LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz; σ = 1.94 S/m; ε_r = 37.31; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.479 W/kg

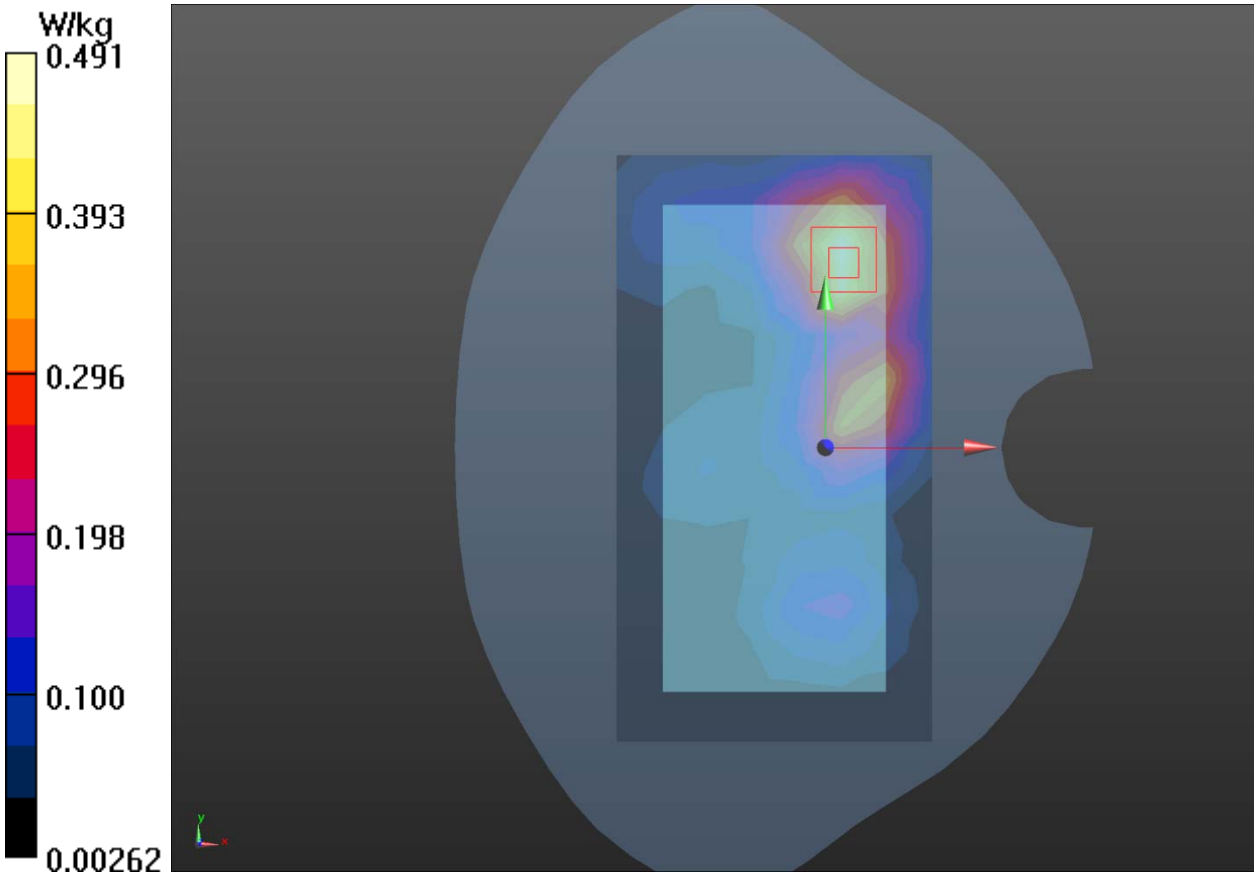
Back Side Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.990 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.241 W/kg

Maximum value of SAR (measured) = 0.491 W/kg

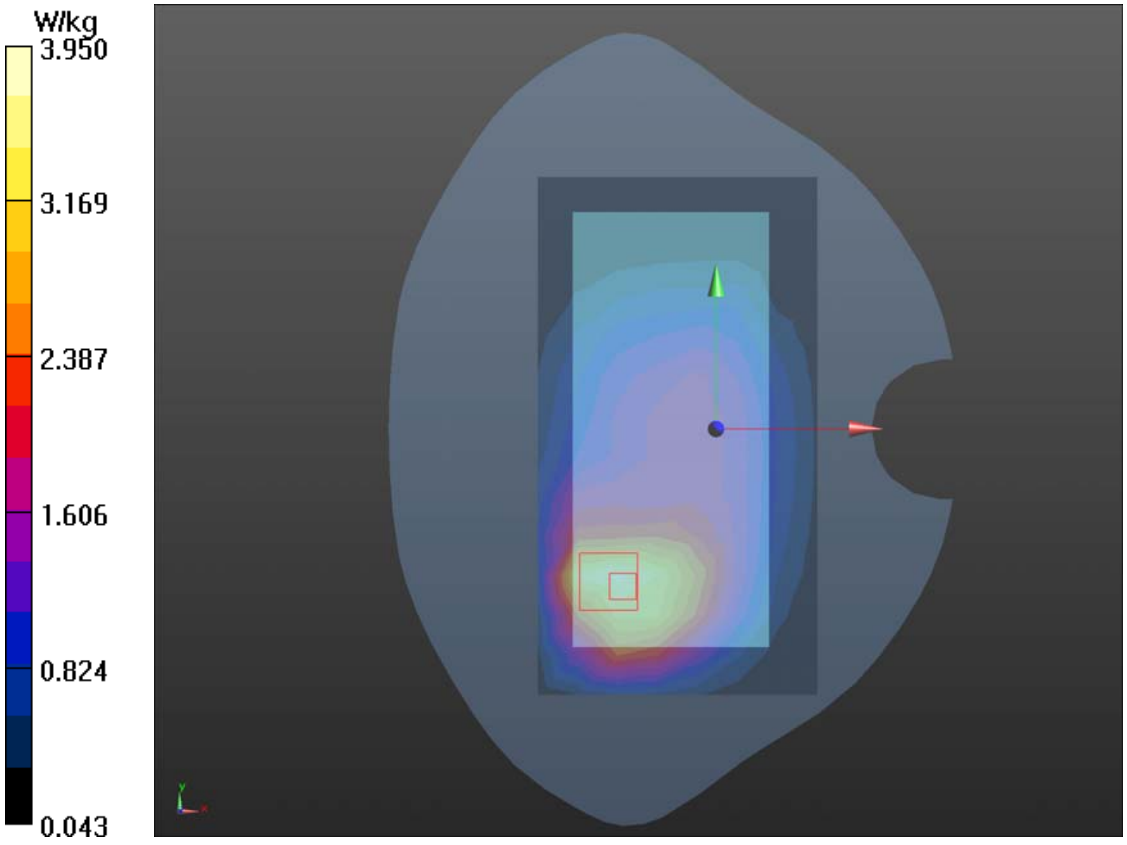


Plot 51 LTE Band 38 1RB Back Side Low (Battery 2, Distance 15mm)

Date: 2022/7/5
Date/Time: 2022/1/19 19:11:36
Communication System: UID 0, LTE (0); Frequency: 2580 MHz;Duty Cycle: 1:1.58
Medium parameters used: f = 2580 MHz; σ = 1.945 S/m; ε_r = 40.144; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12
Electronics: DAE4 SN1692; Calibrated: 2021/10/4
Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 15mm/Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.920 W/kg

Back Side 15mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.48 V/m; Power Drift = -0.021 dB
Peak SAR (extrapolated) = 2.42 W/kg
SAR(1 g) = 3.76 W/kg; SAR(10 g) = 0.200 W/kg
Maximum value of SAR (measured) = 3.950 W/kg



Plot 52 LTE Band 66 1RB Back Side Low (Distance 15mm)

Date: 2022/1/18

Communication System: UID 0, LTE (0); Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1720 MHz; σ = 1.303 S/m; ε_r = 39.467; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.305 W/kg

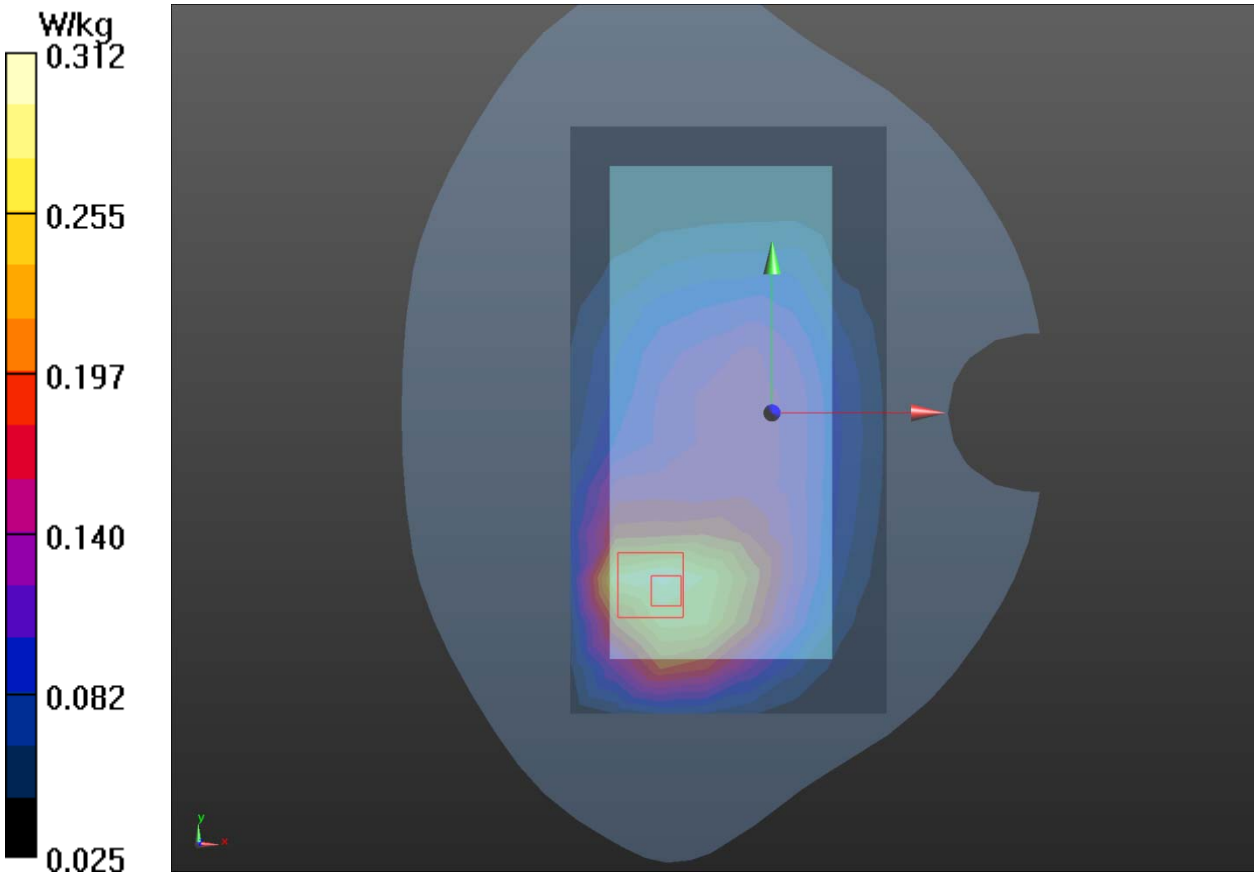
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.63 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.312 W/kg



Plot 53 802.11a U-NII-3 Back Side Middle (Distance 15mm)

Date: 2022/7/6

Communication System: UID 0, 802.11a (0); Frequency: 5745 MHz;Duty Cycle: 1:1.02

Medium parameters used: f = 5745 MHz; σ = 5.385 S/m; ε_r = 34.693; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.04, 5.04, 5.04); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Back Side 15mm/Low/Area Scan (11x21x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.598 W/kg

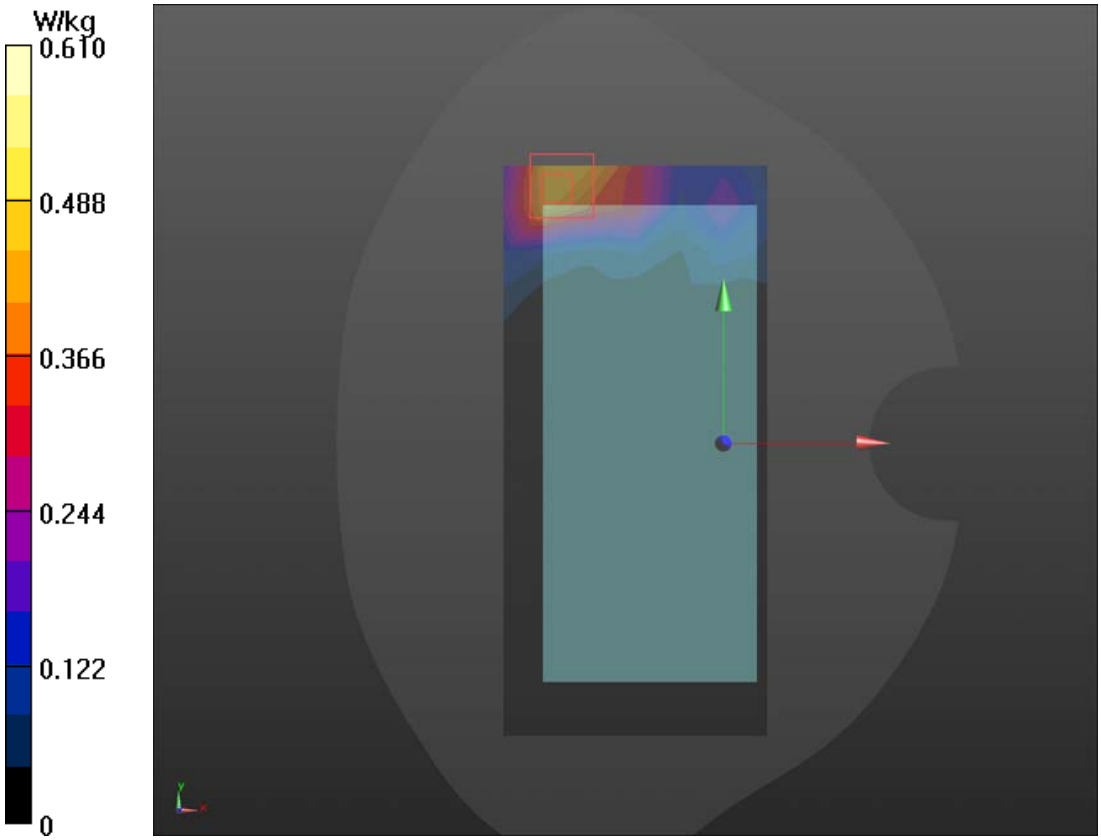
Back Side 15mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.4300 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.610 W/kg



Plot 54 GSM 850 GPRS (2Txslots) Back Side Middle (Battery 2, Distance 10mm)

Date: 2022/1/15

Communication System: UID 0, 2Txslots; Frequency: 836.6 MHz;Duty Cycle: 1:4.15

Medium parameters used: f = 837 MHz; σ = 0.953 S/m; ε_r = 39.762; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.240 W/kg

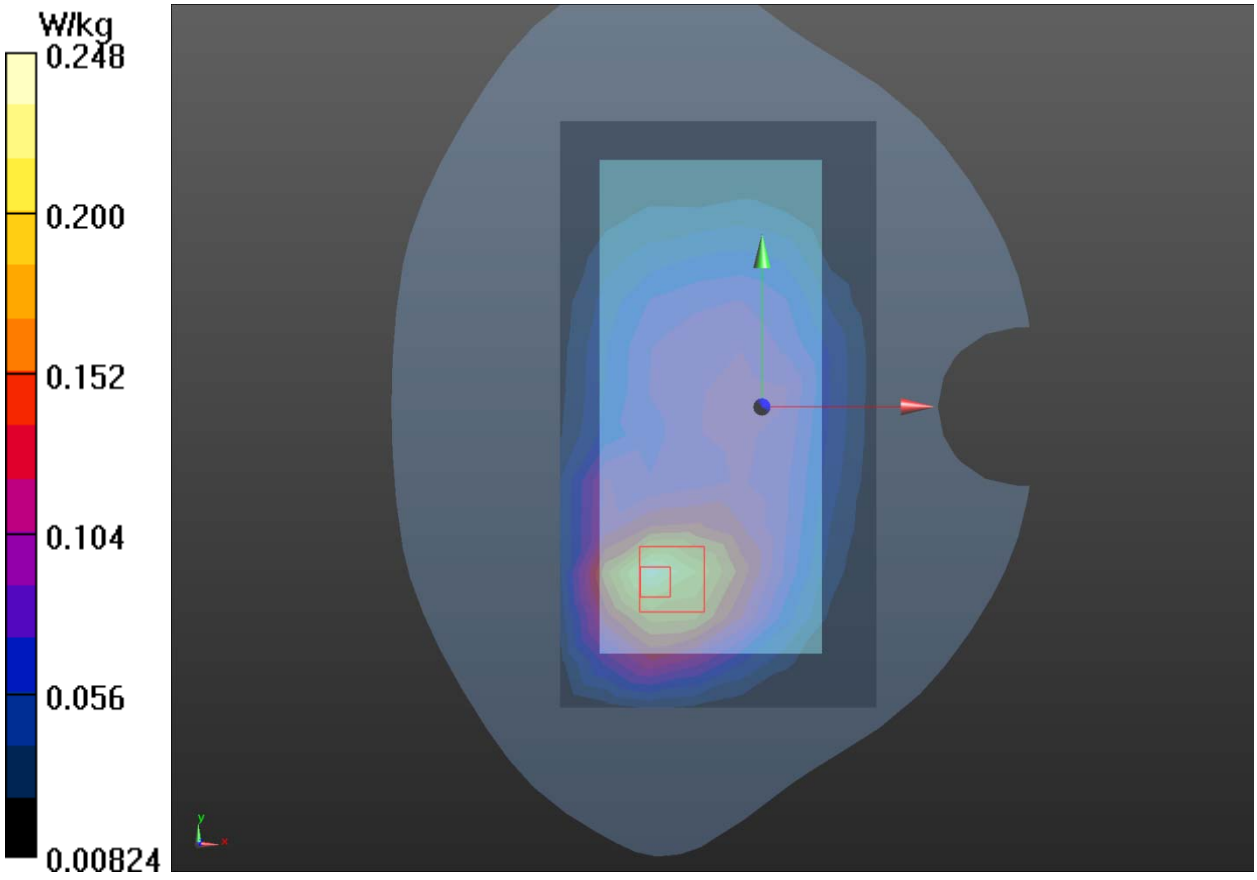
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.35 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.248 W/kg

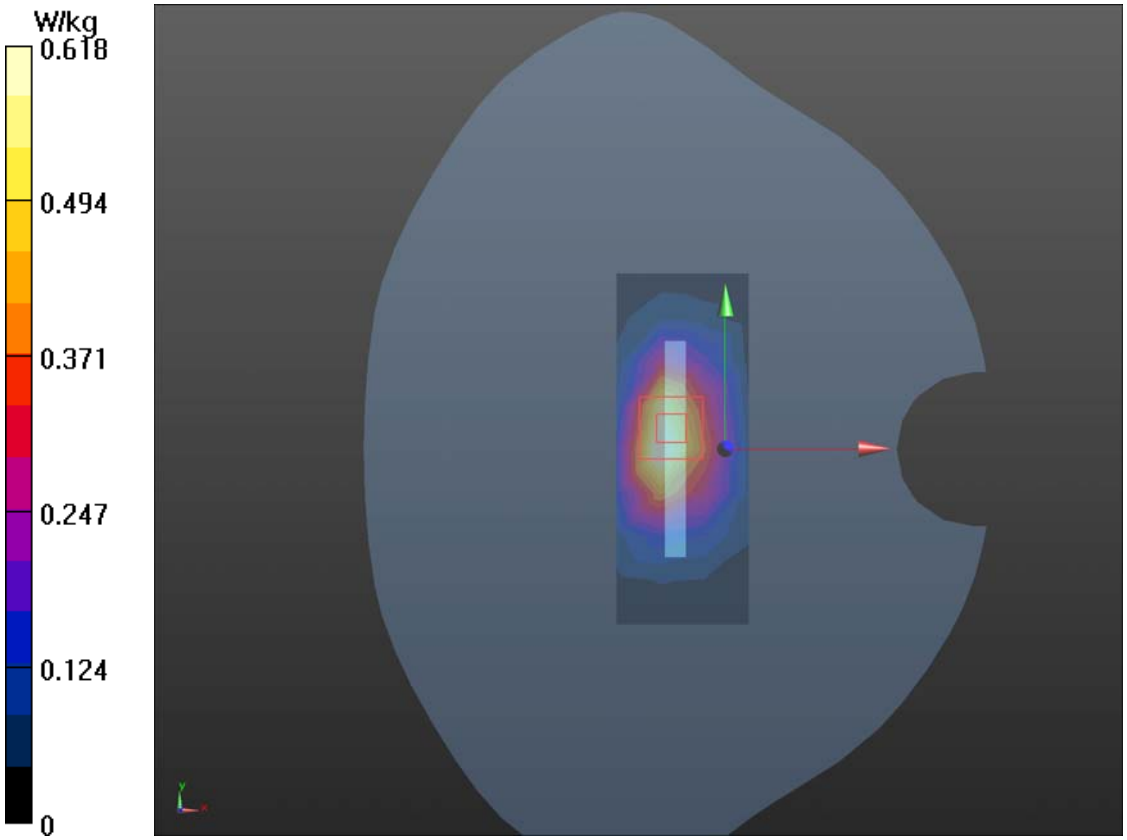


Plot 55 GSM 1900 GPRS (2Txslots) Bottom Edge Middle (Distance 10mm)

Date: 2022/7/5
Communication System: UID 0, GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1880 MHz; σ = 1.393 S/m; ε_r = 38.344; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12
Electronics: DAE4 SN1692; Calibrated: 2021/10/4
Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom edge Middle /Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.615 W/kg

Bottom edge Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.09 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.93 W/kg
SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 0.618 W/kg

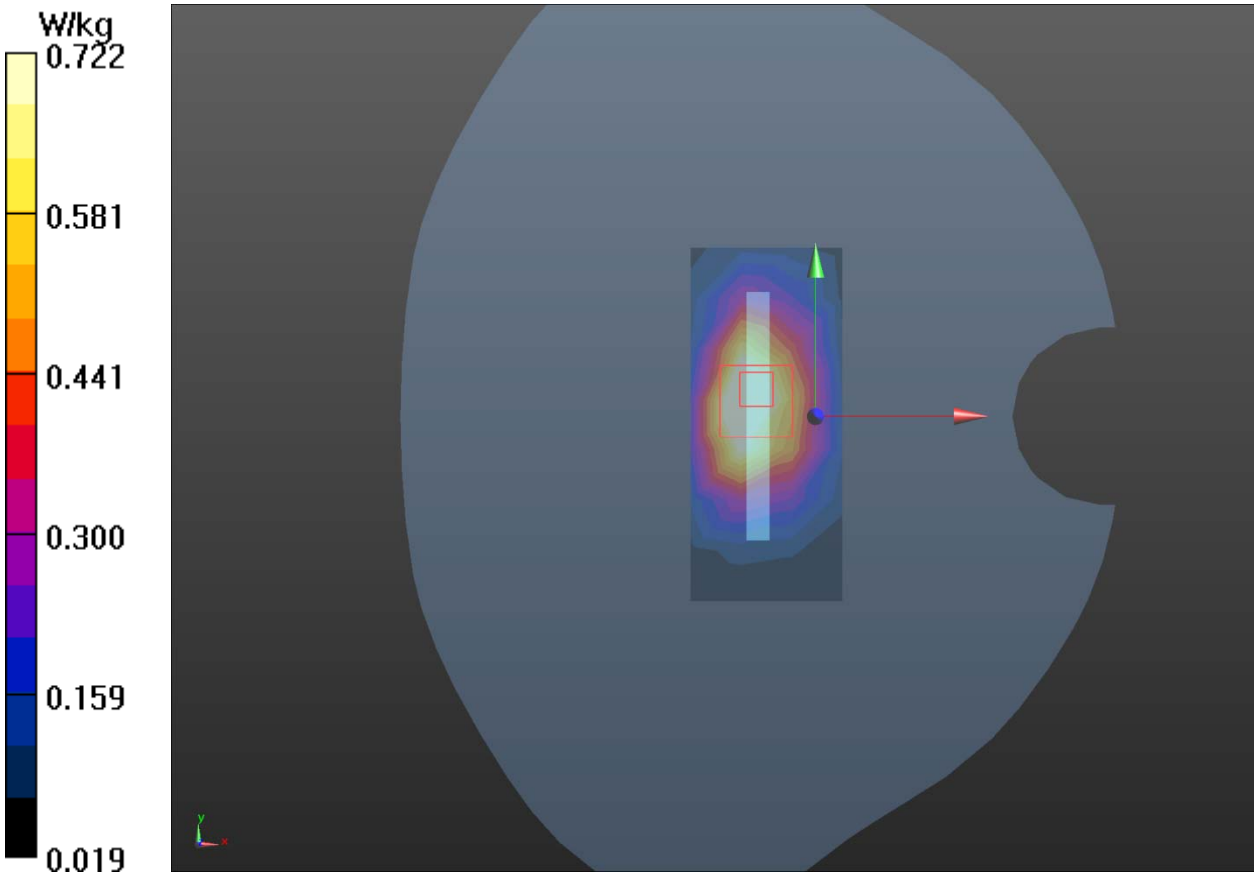


Plot 56 UMTS Band II Bottom Edge Middle (Distance 10mm)

Date: 2022/1/24
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.393 S/m; ε_r = 38.344; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.931 W/kg

Bottom Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.68 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.366 W/kg
Maximum value of SAR (measured) = 0.722 W/kg



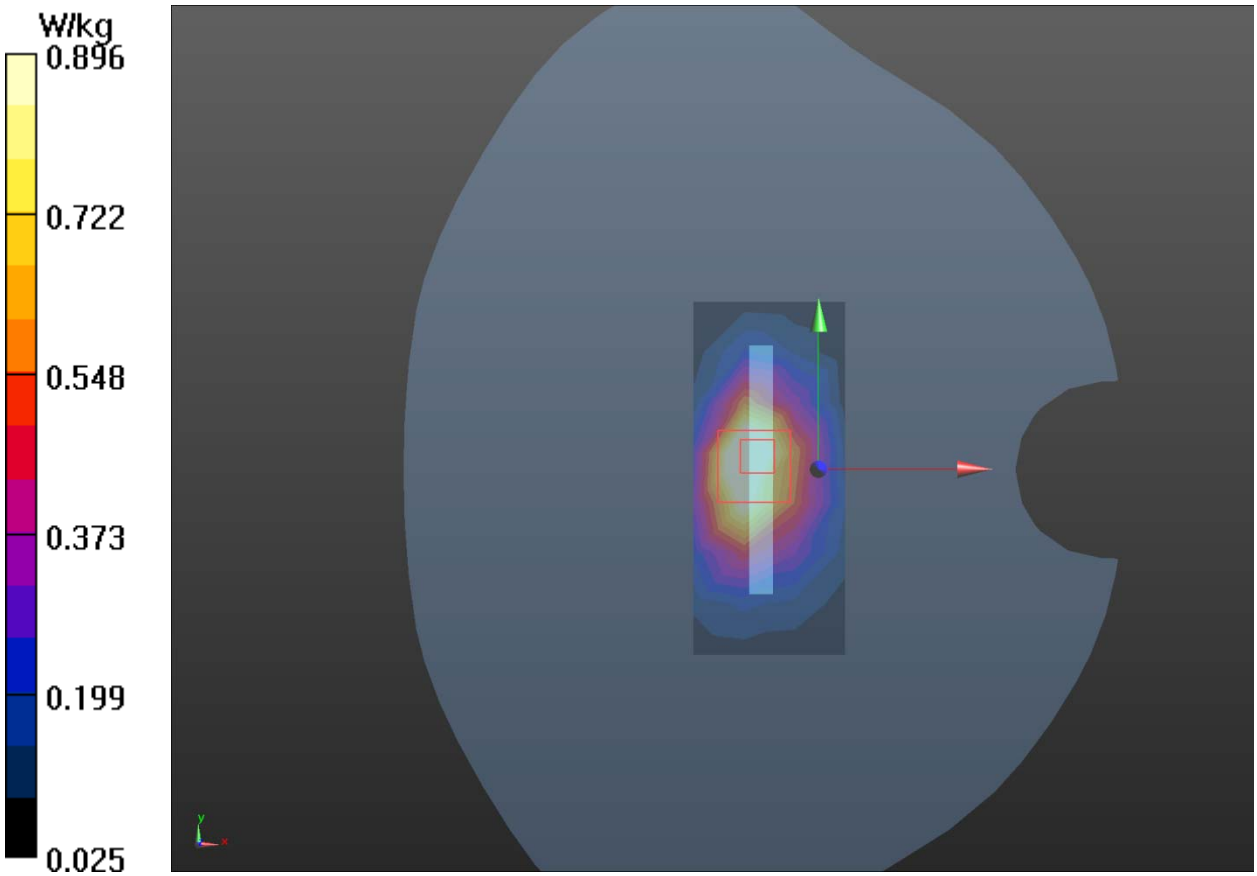
Plot 57 UMTS Band IV Bottom Edge Middle (Distance 10mm)

Date: 2022/1/22
Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1733 MHz; σ = 1.293 S/m; ε_r = 38.782; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.885 W/kg

Bottom Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.61 V/m; Power Drift = 0.140 dB
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.435 W/kg

Maximum value of SAR (measured) = 0.896 W/kg



Plot 58 UMTS Band V Back Side Middle (Battery 2, Distance 10mm)

Date: 2022/1/14

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 837 MHz; σ = 0.953 S/m; ε_r = 39.762; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.731 W/kg

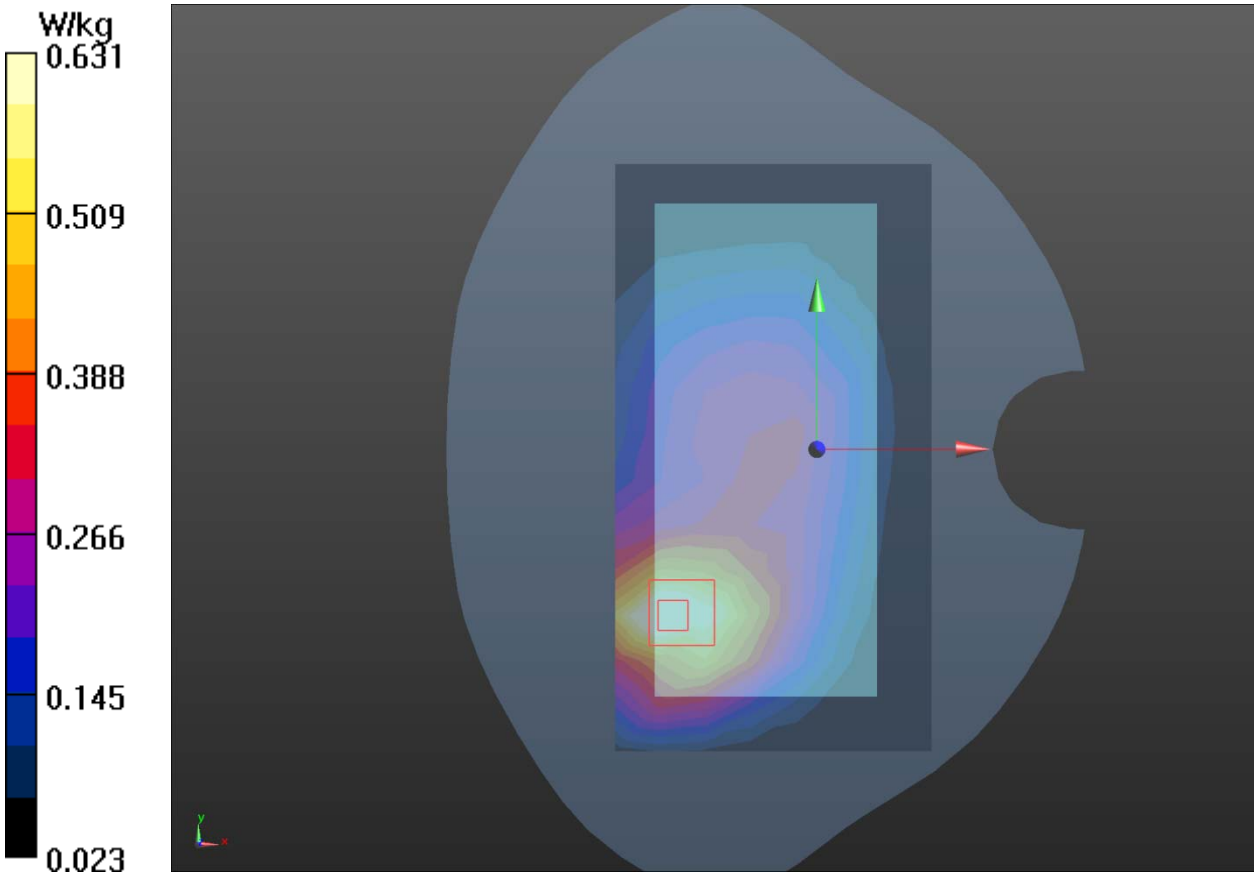
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.00 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.867 W/kg

SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 0.631 W/kg



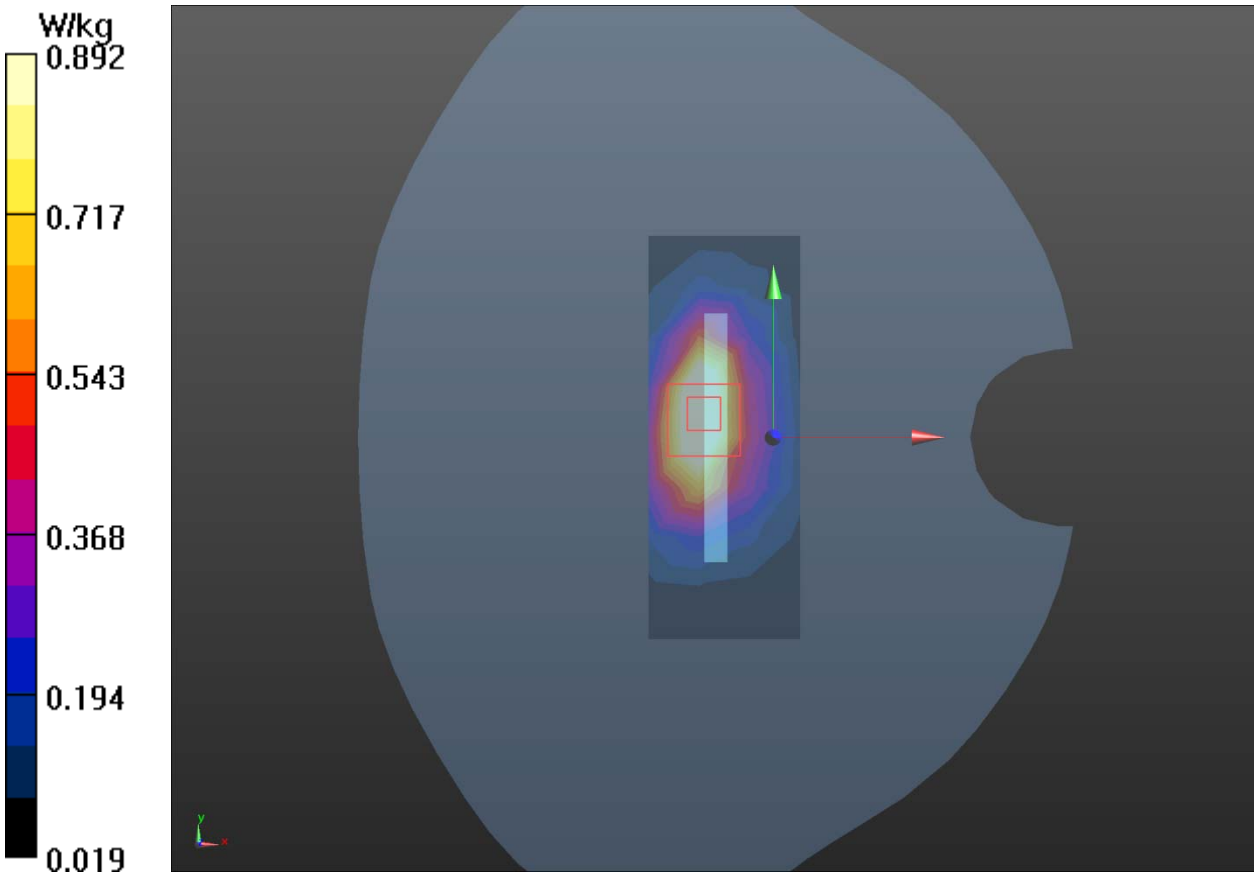
Plot 59 LTE Band 2 100%RB Bottom Edge Low (Distance 10mm)

Date: 2022/1/20
Communication System: UID 0, LTE (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1860 MHz; σ = 1.379 S/m; ε_r = 38.4; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge Low/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.887 W/kg

Bottom Edge Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.88 V/m; Power Drift = 0.080 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.412 W/kg

Maximum value of SAR (measured) = 0.892 W/kg



Plot 60 LTE Band 4 50%RB Bottom Edge High (Distance 10mm)

Date: 2022/1/19

Communication System: UID 0, LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; σ = 1.301 S/m; ε_r = 38.753; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Bottom Edge High/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.862 W/kg

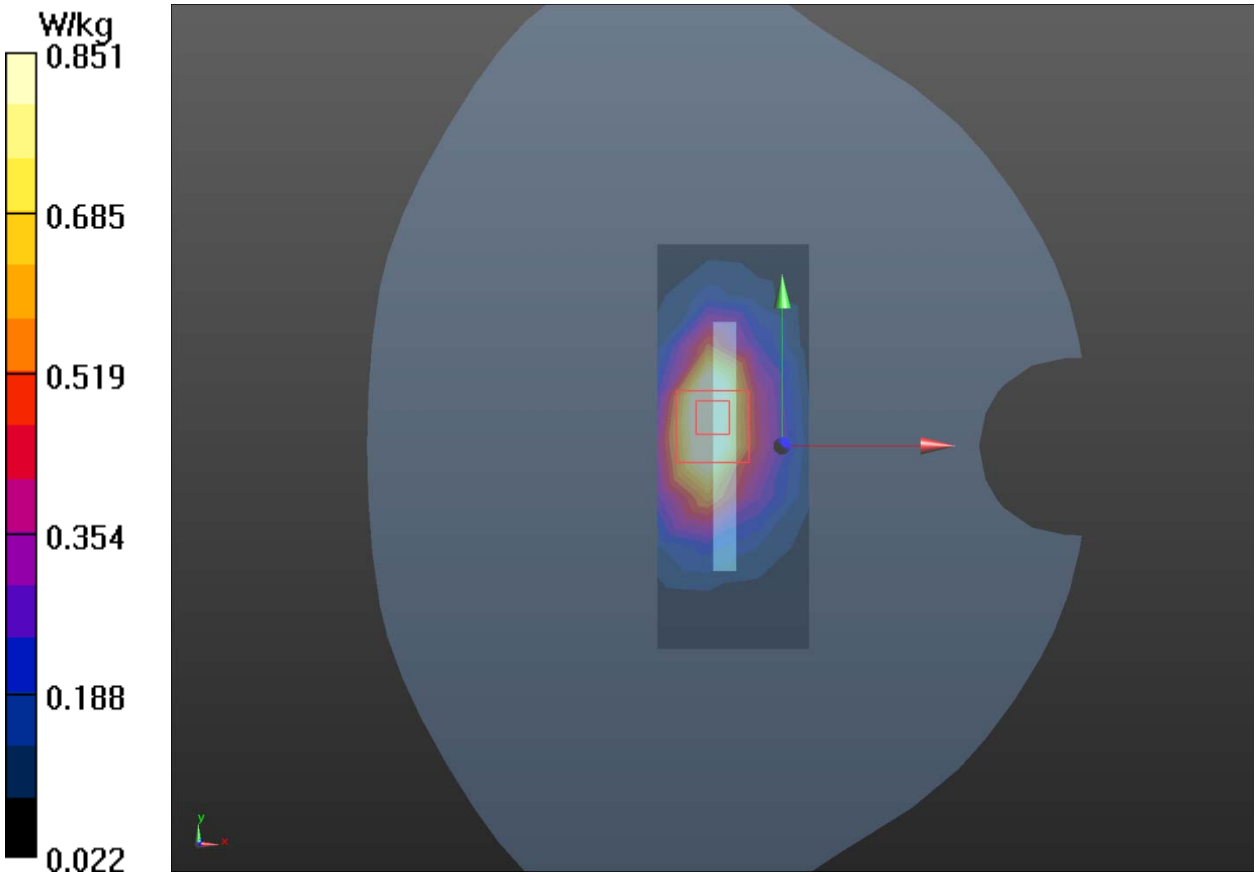
Bottom Edge High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.77 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.406 W/kg

Maximum value of SAR (measured) = 0.851 W/kg



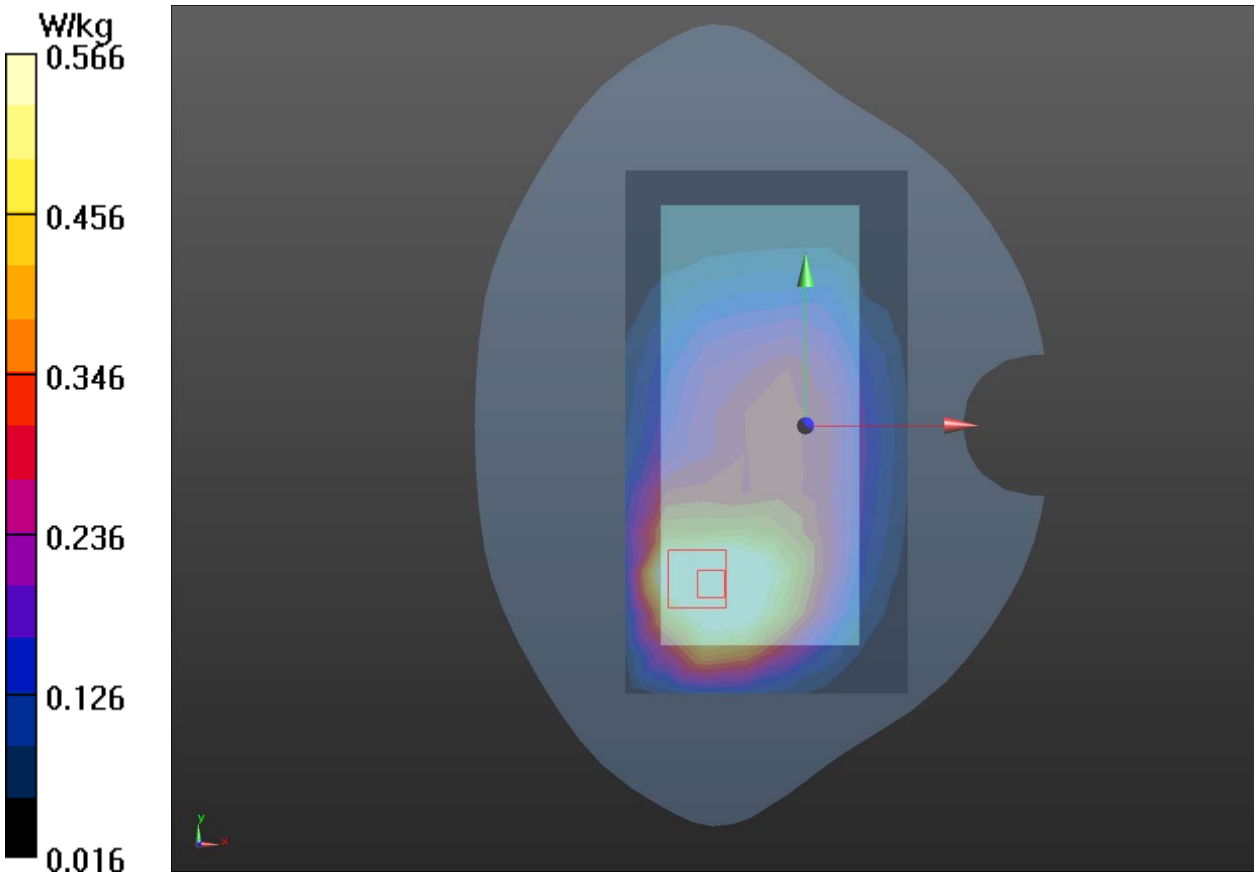
Plot 61 LTE Band 5 1RB Back Side High (Distance 10mm)

Date: 2022/1/14
Communication System: UID 0, LTE (0); Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used: f = 844 MHz; σ = 0.958 S/m; ε_r = 39.728; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(9.30, 9.30, 9.30); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side High/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.570 W/kg

Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.03 V/m; Power Drift = -0.067 dB
Peak SAR (extrapolated) = 0.853 W/kg
SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.329 W/kg

Maximum value of SAR (measured) = 0.566 W/kg



Plot 62 LTE Band 7 1RB Left Edge Middle (Distance 10mm)

Date: 2022/1/17

Communication System: UID 0, LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz; σ = 1.94 S/m; ε_r = 37.31; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Left Edge Middle/Area Scan (5x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.781 W/kg

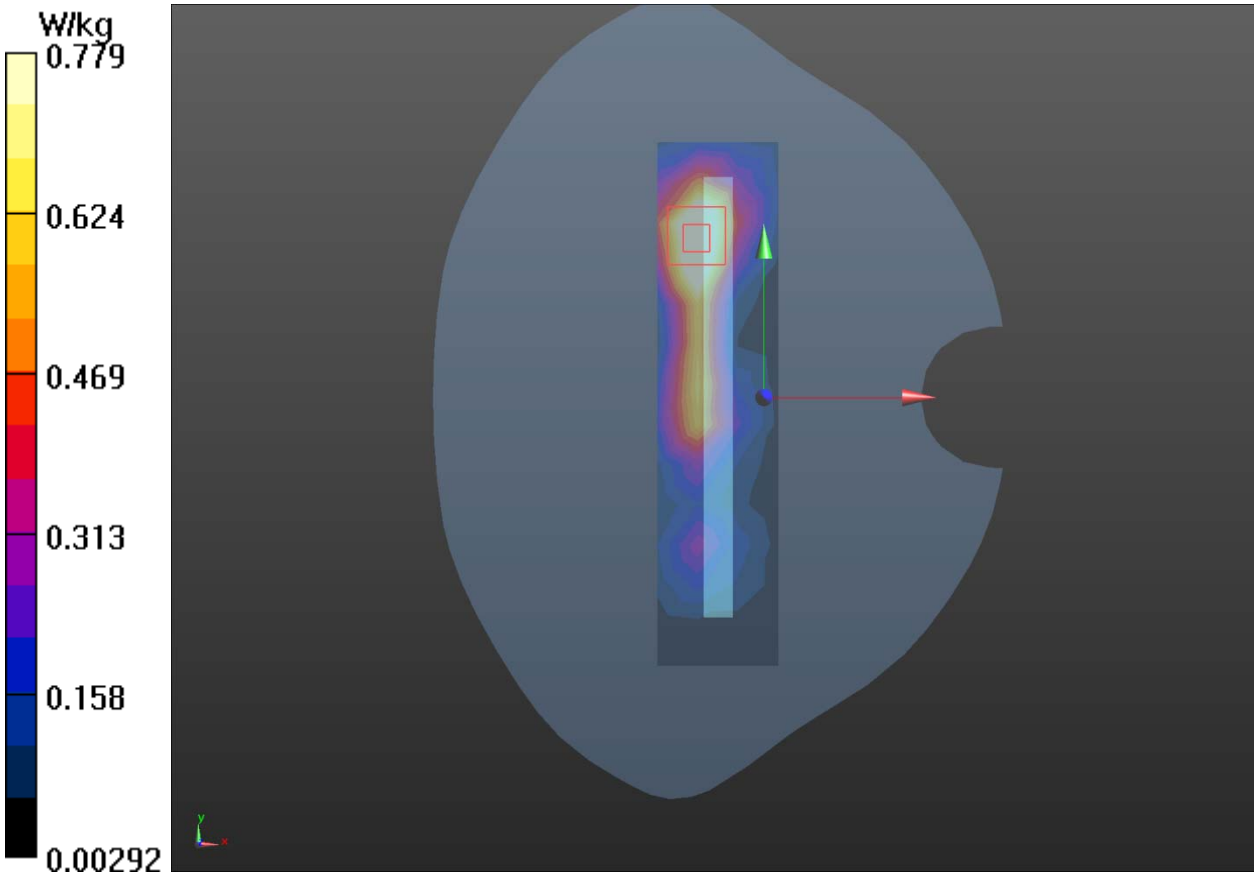
Left Edge Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.31 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.346 W/kg

Maximum value of SAR (measured) = 0.779 W/kg



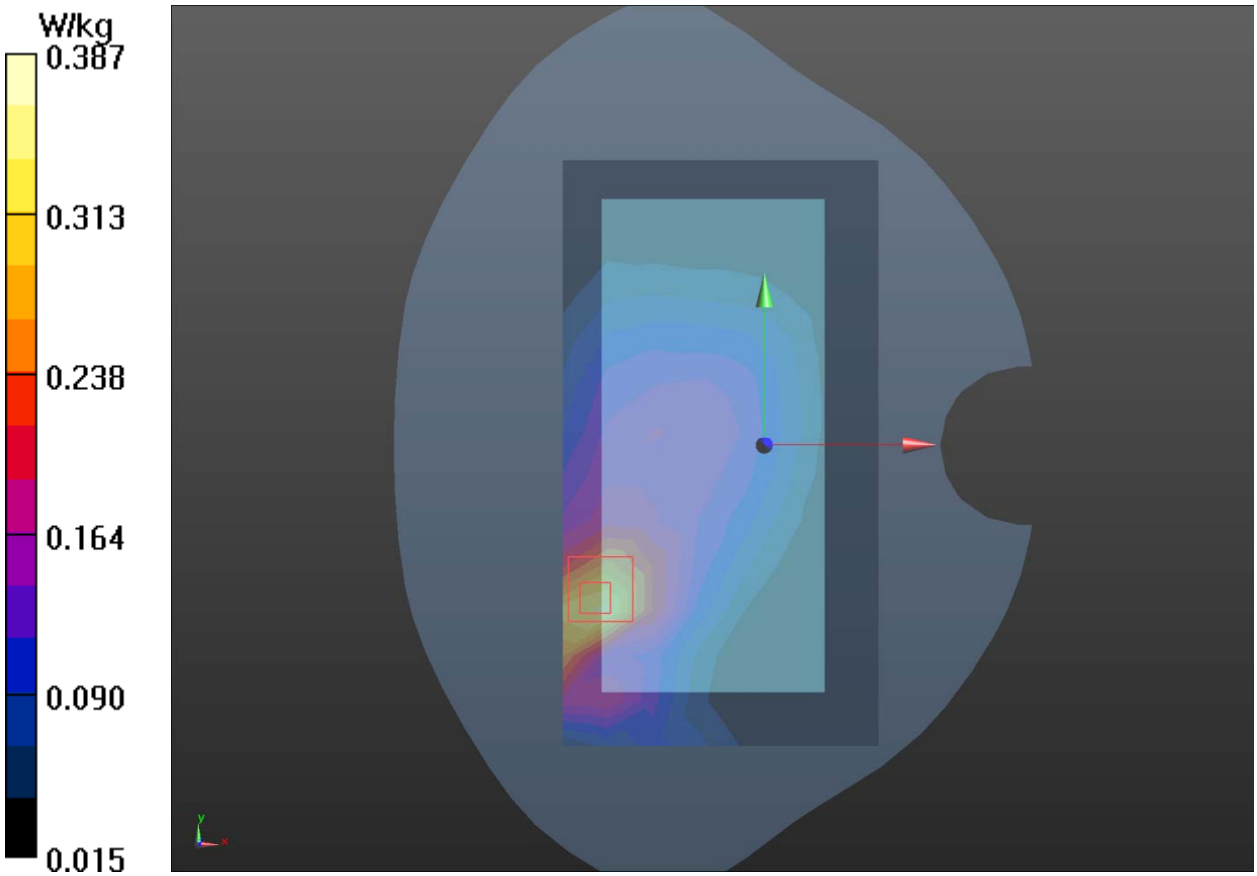
Plot 63 LTE Band 13 1RB Back Side Middle (Distance 10mm)

Date: 2022/1/15
Communication System: UID 0, LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used: f = 782 MHz; σ = 0.917 S/m; ε_r = 40.132; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(9.64, 9.64, 9.64); Calibrated:2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.368 W/kg

Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.43 V/m; Power Drift = 0.130 dB
Peak SAR (extrapolated) = 0.679 W/kg
SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.387 W/kg

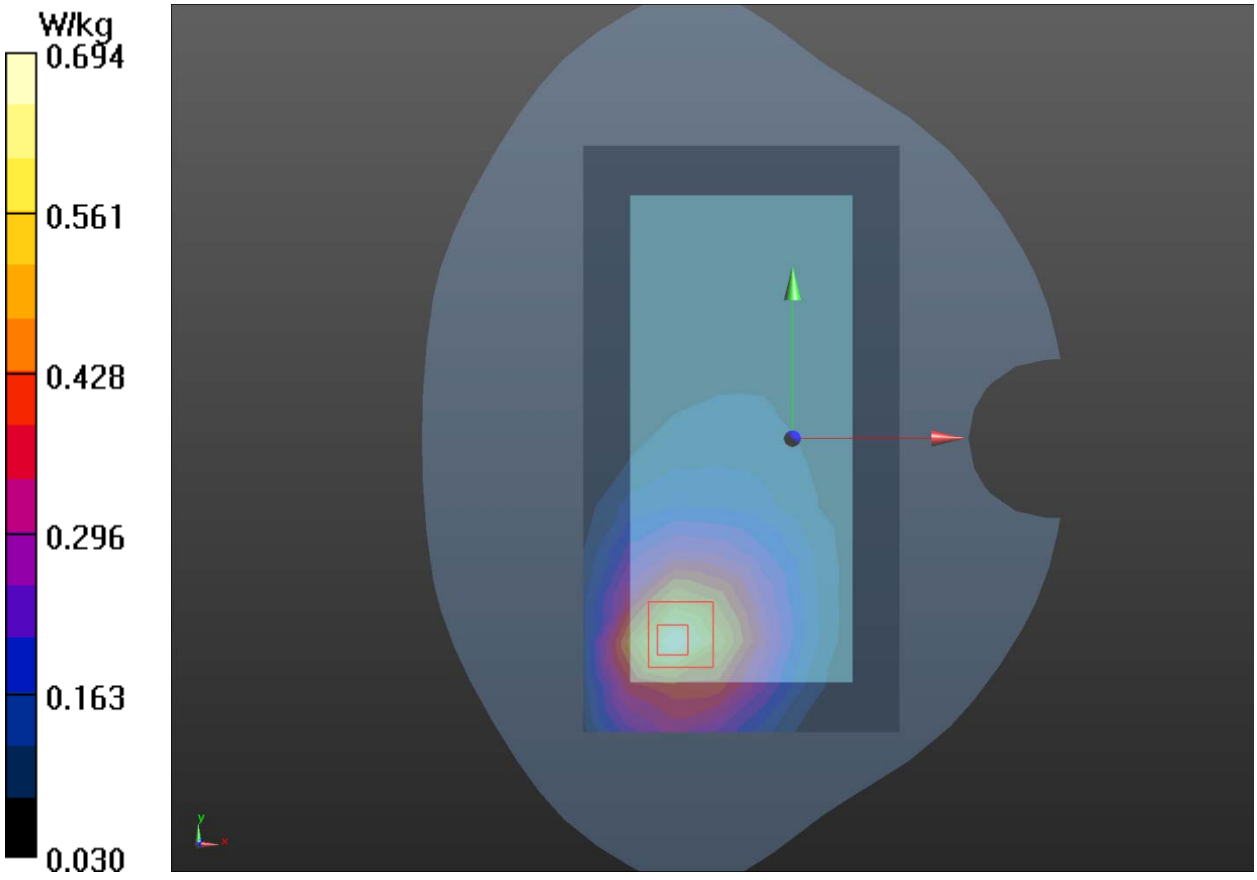


Plot 64 LTE Band 26 1RB Back Side Middle (Battery 2, Distance 10mm)

Date/Time: 2022/1/25 13:05:18
Communication System: UID 0, LTE (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.95 S/m; ε_r = 39.79; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(9.3, 9.3, 9.3) @ 831.5 MHz; Calibrated: 2021/8/12
Electronics: DAE4 Sn1317; Calibrated: 2021/2/23
Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side Middle/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.708 W/kg

Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.25 V/m; Power Drift = 0.080 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.634 W/kg; SAR(10 g) = 0.381 W/kg
Maximum value of SAR (measured) = 0.694 W/kg

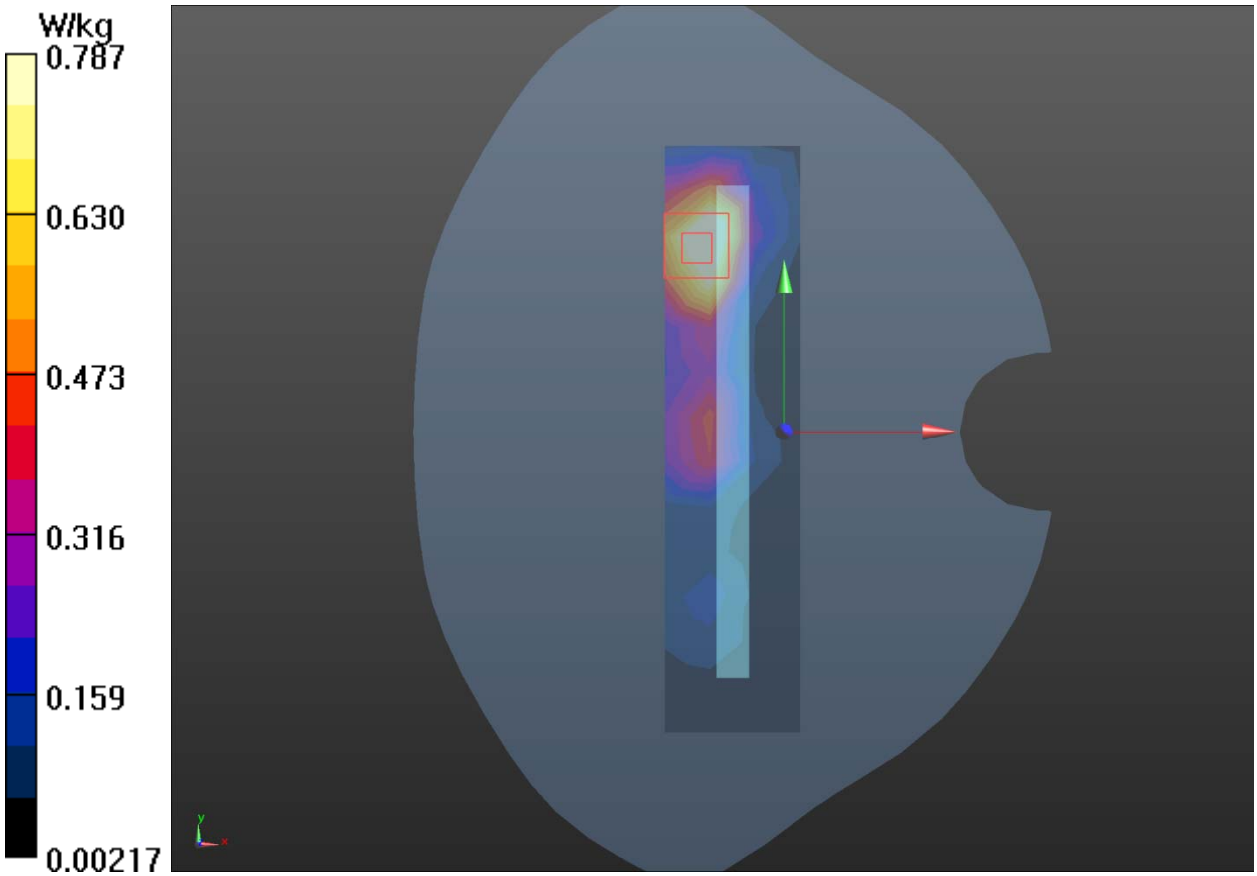


Plot 65 LTE Band 38 1RB Left Edge Middle (Distance 10mm)

Date: 2022/1/16
Communication System: UID 0, LTE (0); Frequency: 2595 MHz;Duty Cycle: 1:1.58
Medium parameters used: f = 2595 MHz; σ = 2.011 S/m; ε_r = 37.134; ρ = 1000 kg/m^3
Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃
Phantom section: Flat Section
DASY5 Configuration:
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Probe: EX3DV4 - SN3677; ConvF(7.25, 7.25, 7.25); Calibrated: 2021/8/12
Electronics: DAE4 SN1317; Calibrated: 2021/2/23
Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Left Edge Middle/Area Scan (5x18x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.783 W/kg

Left Edge Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.816 V/m; Power Drift = 0.098 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.320 W/kg
Maximum value of SAR (measured) = 0.787 W/kg



Plot 66 LTE Band 66 50%RB Bottom Edge Low (Distance 10mm)

Date: 2022/1/18

Communication System: UID 0, LTE (0); Frequency: 1720 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1720 MHz; σ = 1.284 S/m; ε_r = 38.855; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Bottom Edge Low/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.736 W/kg

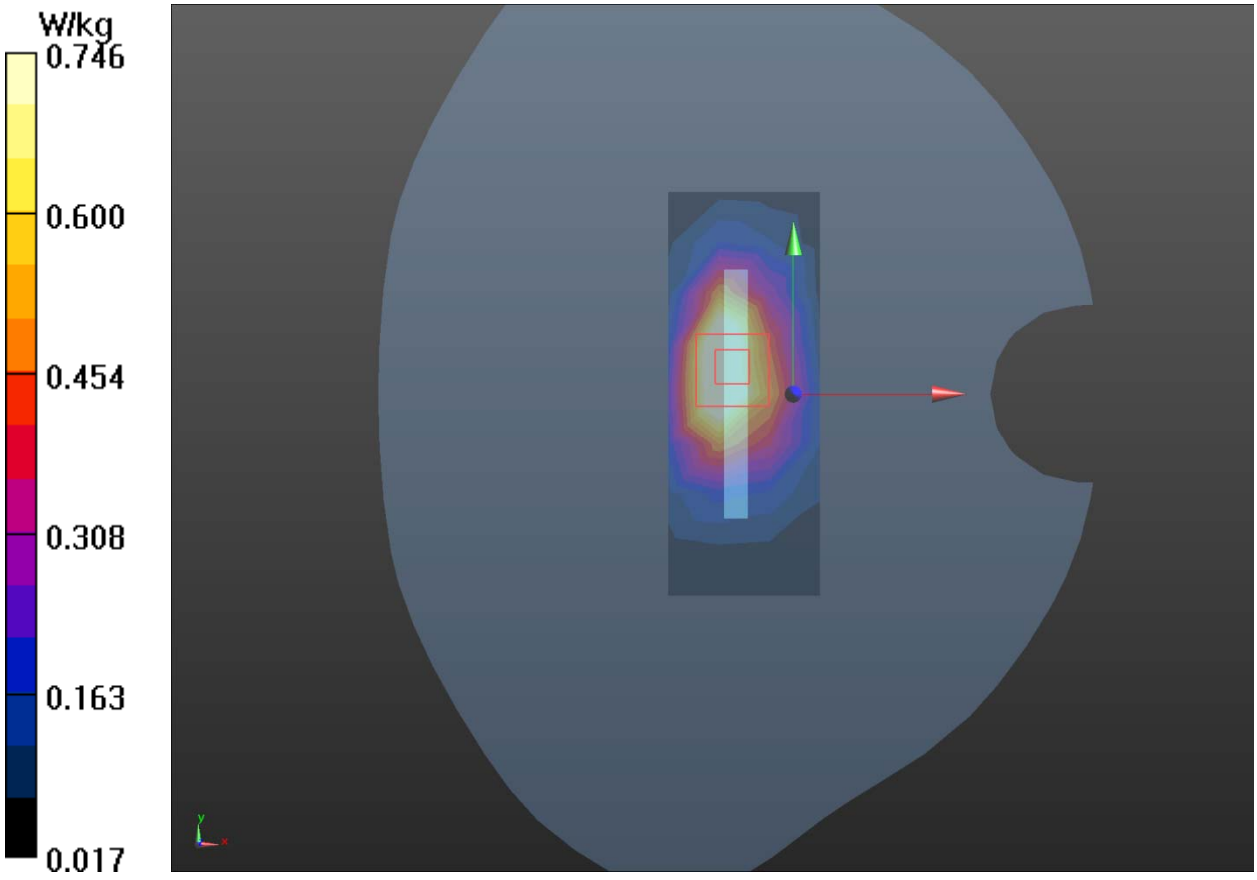
Bottom Edge Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.19 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 0.746 W/kg



Plot 67 802.11g Right Edge Middle (Distance 10mm)

Date: 2022/7/5

Communication System: UID 0, 802.11g (0); Frequency: 2437 MHz;Duty Cycle: 1:1.02

Medium parameters used: f = 2437 MHz; σ = 1.831 S/m; ε_r = 37.663; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.50, 7.50, 7.50); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Right Edge Middle /Area Scan (5x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.819 W/kg

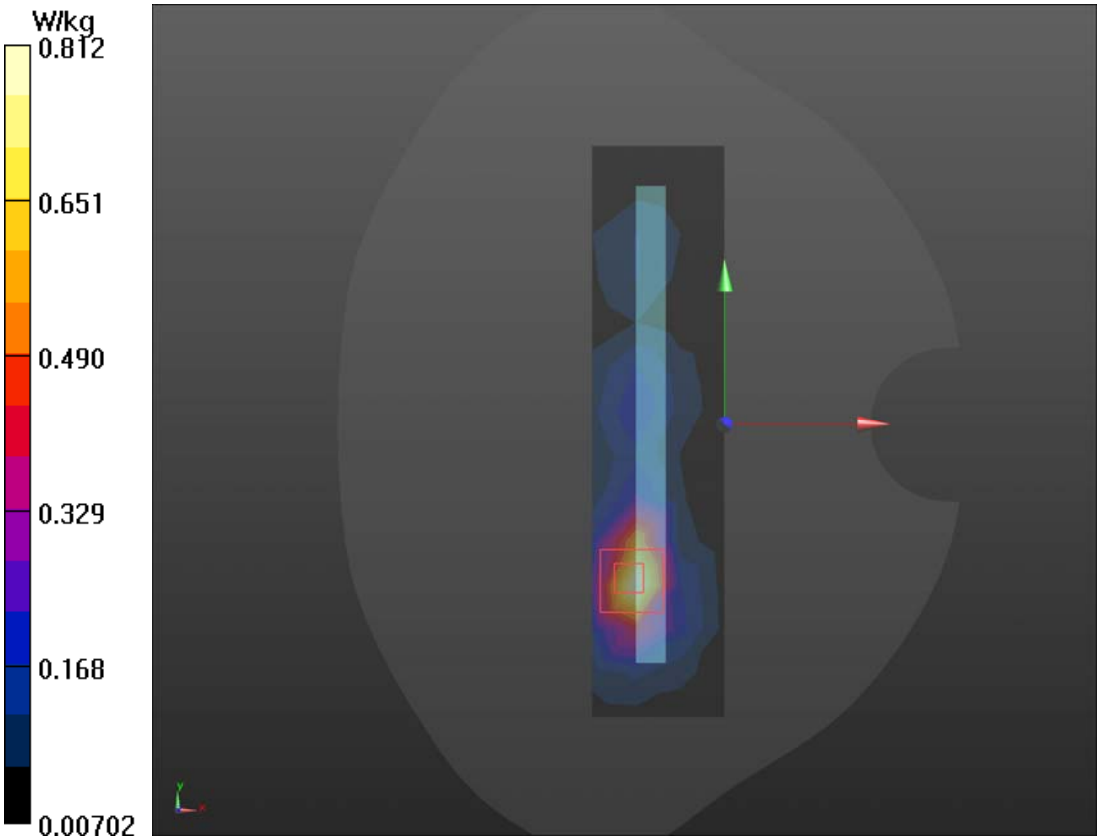
Right Edge Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.01 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.350 W/kg

Maximum value of SAR (measured) = 0.812 W/kg



Plot 68 802.11a U-NII-3 Top Edge Low (Distance 10mm)

Date: 2022/1/28

Communication System: UID 0, 802.11a (0); Frequency: 5745 MHz;Duty Cycle: 1:1.02

Medium parameters used: f = 5745 MHz; σ = 5.448 S/m; ε_r = 35.615; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.04, 5.04, 5.04); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Top Edge Low/Area Scan (6x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.71 W/kg

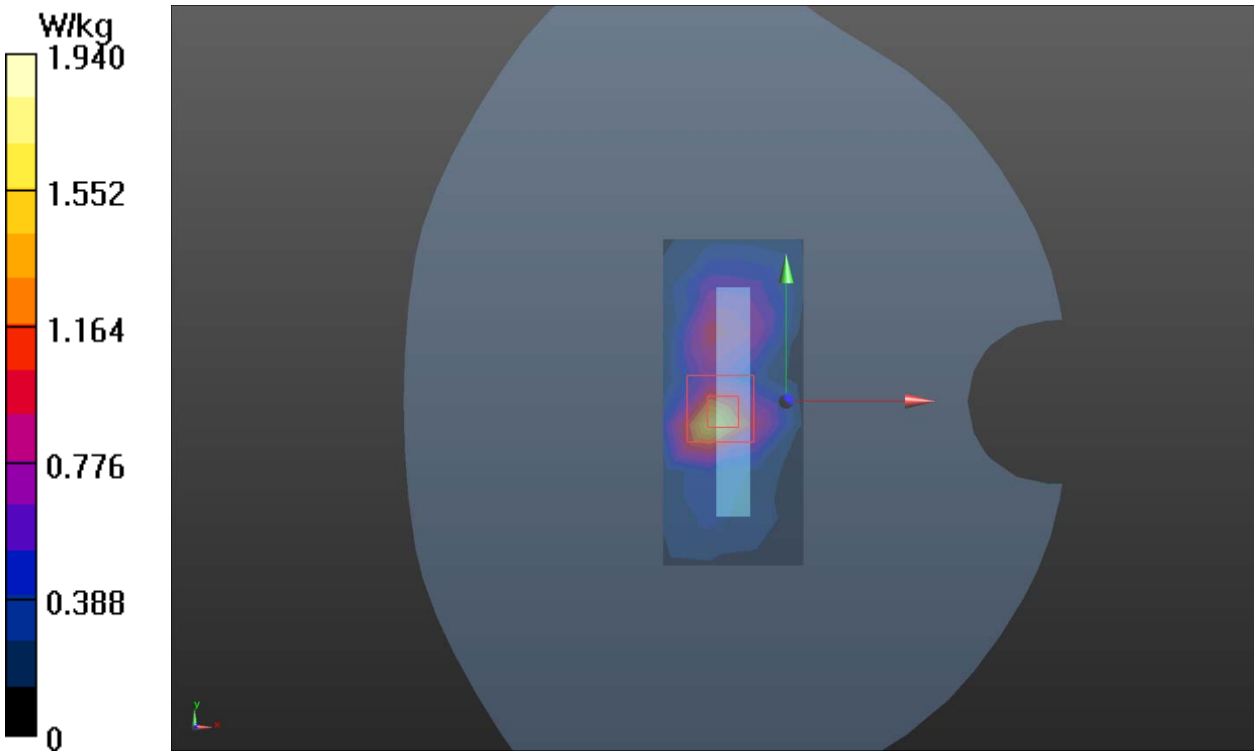
Top Edge Low/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.99 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 4.02 W/kg

SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 1.94 W/kg



Plot 69 Bluetooth Back Side Middle (Distance 10mm)

Date: 2022/7/5

Communication System: UID 0, BT (0); Frequency: 2402 MHz;Duty Cycle: 1:1.30

Medium parameters used: f = 2402 MHz; σ = 1.789 S/m; ε_r = 37.77; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.50, 7.50, 7.50); Calibrated: 2021/8/12

Electronics: DAE4 SN1692; Calibrated: 2021/10/4

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle /Area Scan (9x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.089 W/kg

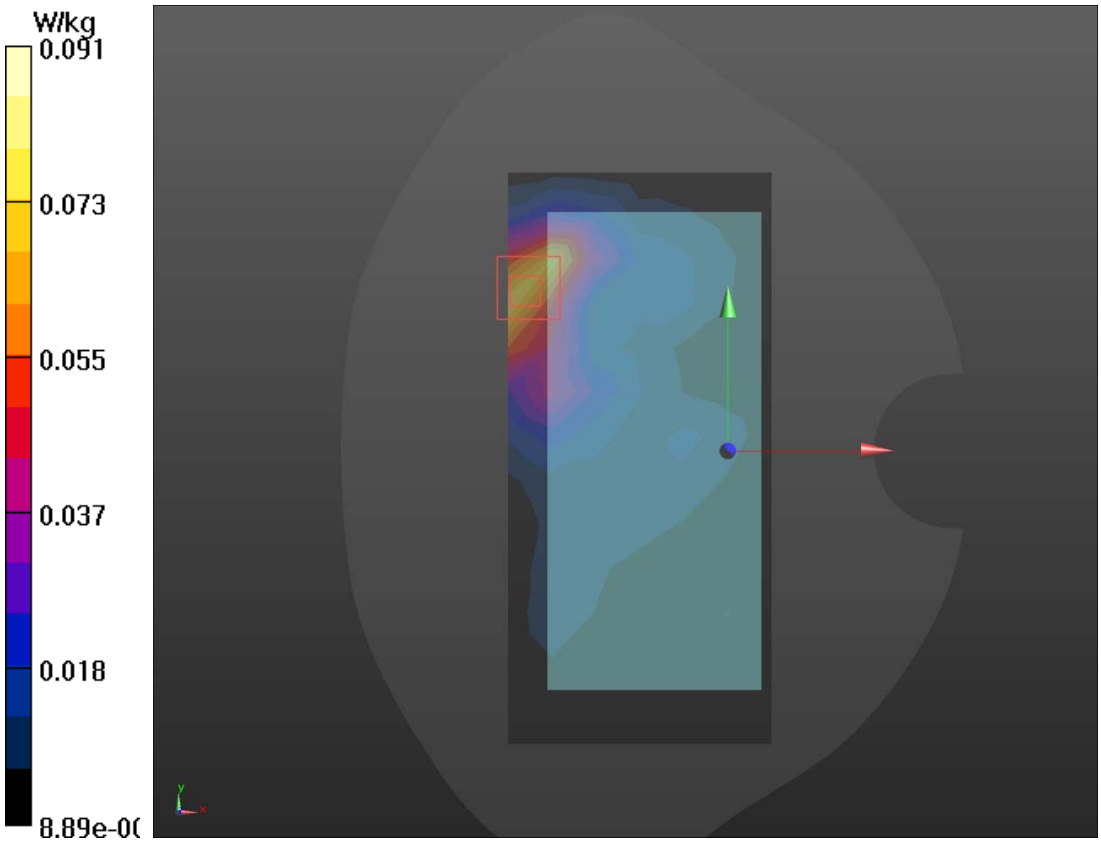
Back Side Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.379 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.091 W/kg



Plot 70 UMTS Band II Bottom Edge Middle (Distance 0mm)

Date: 2022/1/24

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.393 S/m; ε_r = 38.344; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Bottom Edge Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.48 W/kg

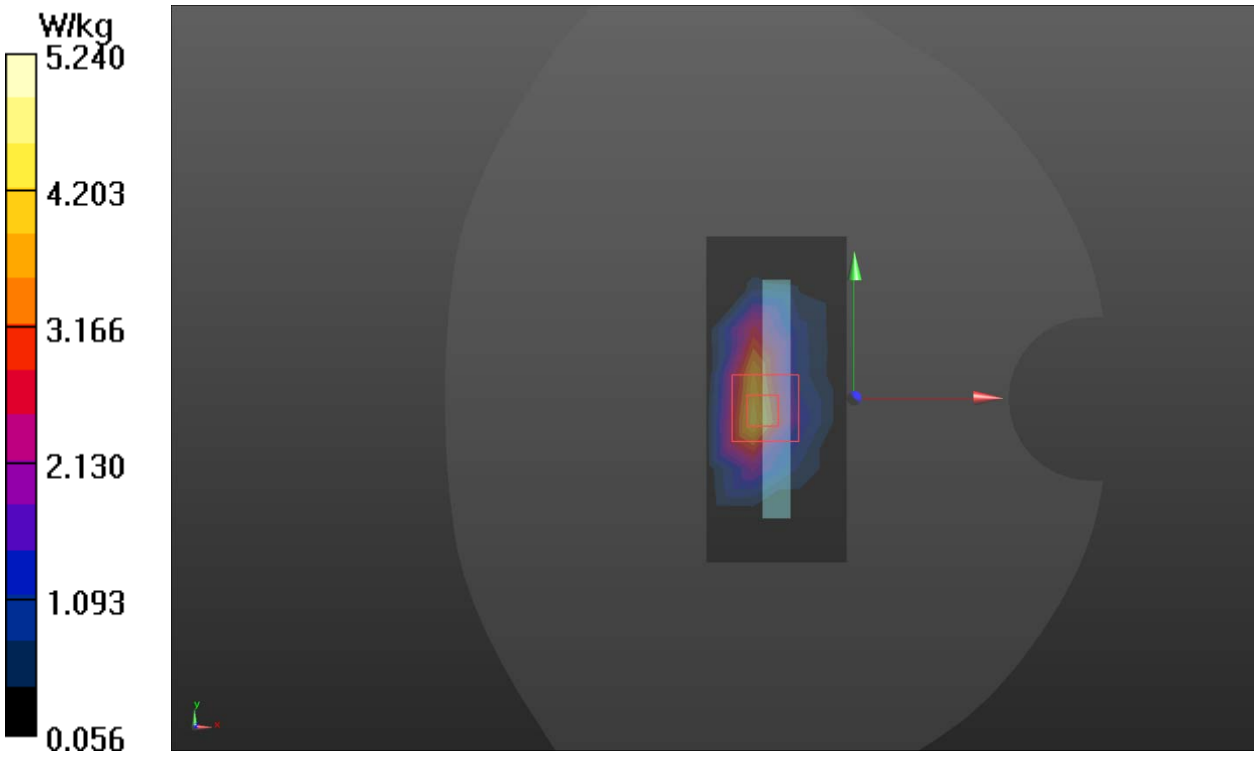
Bottom Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.34 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 4.46 W/kg; SAR(10 g) = 1.99 W/kg

Maximum value of SAR (measured) = 5.24 W/kg



Plot 71 LTE Band 2 1RB Bottom Edge Middle (Distance 0mm)

Date: 2022/1/24

Communication System: UID 0, LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.393 S/m; ε_r = 38.344; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.88, 7.88, 7.88); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Bottom Edge Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.21 W/kg

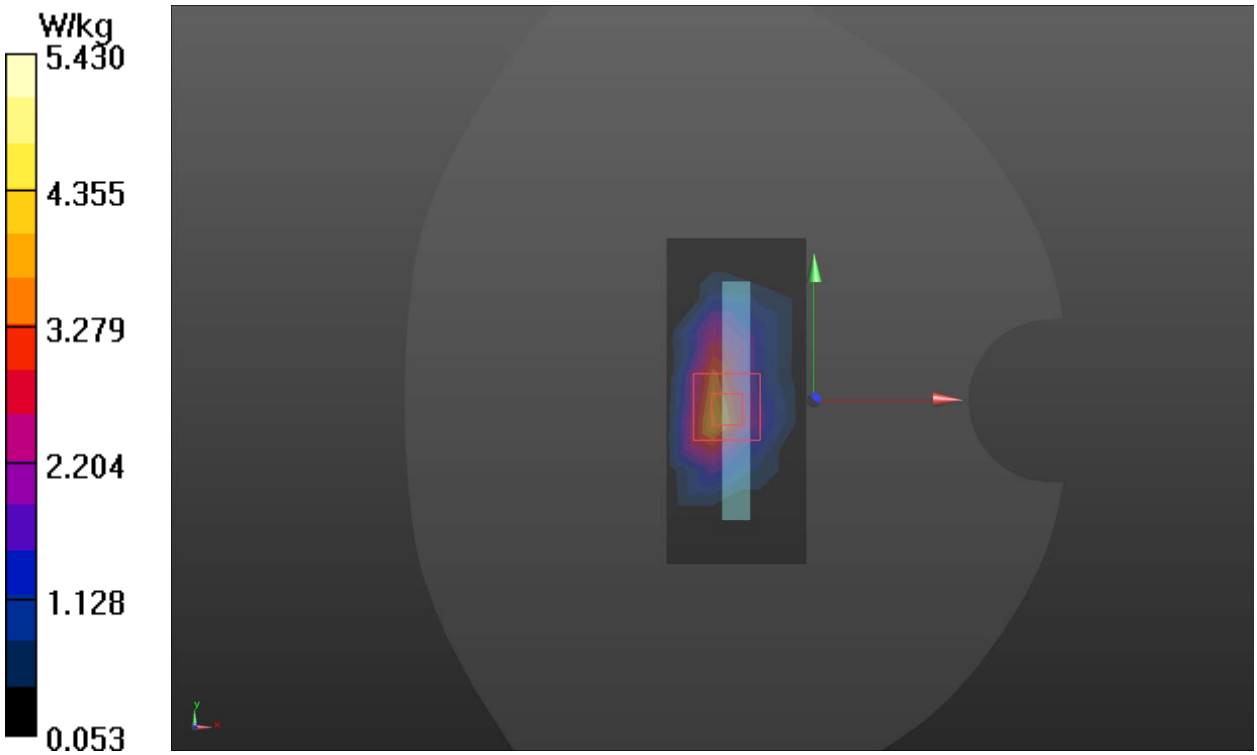
Bottom Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.35 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 4.62 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 5.43 W/kg



Plot 72 U-NII-2C Top Edge Low (Distance 0mm)

Date: 2022/2/14

Communication System: UID 0, 802.11ac-VHT20 (0); Frequency: 5520 MHz;Duty Cycle: 1:1.02

Medium parameters used: f = 5520 MHz; σ = 5.097 S/m; ε_r = 35.266; ρ = 1000 kg/m^3

Ambient Temperature:22.3 ℃ Liquid Temperature: 21.5℃

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.00, 5.00, 5.00); Calibrated: 2021/8/12

Electronics: DAE4 SN1317; Calibrated: 2021/2/23

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Top Edge Low/Area Scan (6x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.69 W/kg

Top Edge Low/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.74 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 24.1 W/kg

SAR(1 g) = 7.55 W/kg; SAR(10 g) = 1.92 W/kg

Maximum value of SAR (measured) = 12.7 W/kg