



SAR TEST REPORT

Applicant Guangdong OPPO Mobile
Telecommunications Corp., Ltd.

FCC ID R9C-CPH2207

Product Mobile Phone

Brand OPPO

Model CPH2207

Report No. R2011A0826-S1

Issue Date January 21, 2021

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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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

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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	1g SAR Hotspot	Product Specific 10-g SAR
GSM	850	0.684	0.238	0.869	N/A
	1900	0.723	0.262	0.925	N/A
WCDMA	Band II	1.119	0.308	0.984	N/A
	Band IV	1.184	0.429	1.163	2.788
	Band V	0.957	0.385	0.774	N/A
LTE	FDD 2	0.957	0.450	1.065	N/A
	FDD 4	/	/	/	/
	FDD 5	0.484	0.311	0.582	N/A
	FDD 7	1.076	0.387	1.035	2.665
	FDD 12	0.558	0.344	0.521	N/A
	FDD 17	/	/	/	/
	FDD 26	0.744	0.258	0.560	N/A
	TDD 38	1.032	0.234	1.052	N/A
	TDD 41	0.773	0.307	1.066	N/A
	FDD 66	1.041	0.501	0.891	N/A
LTE (EN-DC)	FDD 7	0.550	0.387	0.711	N/A
NR	n5 (EN-DC)	0.418	0.080	0.193	N/A
	n7 (SA&EN-DC)	0.733	0.162	0.660	N/A
	n7 (EN-DC)	0.725	0.062	0.401	N/A
	n7 (SA)	0.147	0.236	0.480	N/A
	n41 (SA)	1.011	0.265	0.995	N/A
Wi-Fi (2.4G)		0.653	0.134	0.125	N/A
Wi-Fi (5G)		0.997	0.279	0.200	1.443
BT		0.614	0.060	0.135	N/A
Date of Testing: December 4, 2020 ~ January 13, 2021					
Date of Sample Received: October 3, 2020					



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.

3. According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):

a) Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range 699-716 MHz); LTE Band 4 (Frequency range: 1710-1755 MHz) is covered by LTE Band 66 (Frequency range 1710-1780 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

Table 2: Highest Simultaneous Transmission SAR

Exposure Configuration	1g SAR Head	1g SAR Body-worn (Separation 15mm)	1g SAR Hotspot (Separation 10mm)	Product Specific 10-g SAR (Separation 0mm)
Highest Simultaneous Transmission SAR (W/kg)	1.514	1.142	1.518	3.562

Note: The detail for simultaneous transmission consideration is described in chapter 10.4.

3 Description of Equipment under Test

Client Information

Applicant	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Applicant address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Manufacturer address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

General Technologies

Application Purpose	Original Grant
EUT Stage	Identical Prototype
Model	CPH2207
IMEI	IMEI 1: 862960050018433 IMEI 2: 862960050018425
Hardware Version	11
Software Version	ColorOS V11.1
Antenna Type	Internal Antenna
Device Class	B
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 2/4/5/7/12/17/26/66: 3 LTE TDD 38/41: 3
Power Level	GSM 850: level 5 GSM 1900: level 0 UMTS Band II/IV/V: all up bits LTE FDD 2/4/5/7/12/17/26/66: max power LTE TDD 38/41: max power
EUT Accessory	
Battery 1	Manufacturer: Dongguan NVT Technology Co., Ltd Model: BLP825
Earphone 1	Manufacturer: Guangdong OPPO Mobile Telecommunications Corp., Ltd. Model: MH147
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)	<input type="checkbox"/> Multi-slot Class:8-1UP <input type="checkbox"/> Multi-slot Class:10-2UP <input checked="" type="checkbox"/> Multi-slot Class:12-4UP <input type="checkbox"/> Multi-slot Class:33-4UP	824 ~ 849
	1900			1850 ~ 1910
Does this device support DTM (Dual Transfer Mode)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
UMTS	Band II	QPSK, 16QAM	HSDPA UE Category:24 HSUPA UE Category:6 DC-HSDPA Category:6 HSPA+ Category:6	1850 ~ 1910
	Band IV			1710 ~ 1755
	Band V			824 ~ 849
LTE	FDD 2	QPSK, 16QAM, 64QAM, 256QAM	Release 15	1850 ~ 1910
	FDD 4			1710 ~ 1755
	FDD 5			824 ~ 849
	FDD 7			2500 ~ 2570
	FDD 12			699 ~ 716
	FDD 17			704 ~ 716
	FDD 26			814 ~ 849
	TDD 38			2570 ~ 2620
	TDD 41			2496 ~ 2690
	FDD 66			1710 ~ 1780
Does this device support Carrier Aggregation (CA) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Does this device support SV-LTE (1xRTT-LTE)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
NR	FDD n5	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: QPSK, 16QAM, 64QAM, 256QAM	/	824 ~ 849
	FDD n7			2500 ~ 2570
	TDD n41			2496 ~ 2690
BT	2.4G	Version 5.2 LE		2402 ~ 2480
Wi-Fi	2.4G	DSSS, CCK, OFDM	802.11b/g/n HT20	2412 ~ 2462
		OFDM, OFDMA	802.11ac VHT20/ax HE20	2412 ~ 2462
		OFDM, OFDMA	802.11n/ac HT40/ax HE40	2422 ~ 2452
	5G	OFDM, OFDMA	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80/ ax HE 20/ HE 40/ HE 80	5150 ~ 5350 5470 ~ 5850
Does this device support MIMO <input checked="" type="checkbox"/> Yes(2TX, 2RX) <input type="checkbox"/> No				
NFC	13.56MHz			

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:

IEC 62209-1

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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 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 3: 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 (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) 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 4: 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 $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
 Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.
 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 $\beta_c = 11/15$ and $\beta_d = 15/15$.

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 5: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	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: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$. 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 $\beta_c = 10/15$ and $\beta_d = 15/15$.

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 $\beta_c = 14/15$ and $\beta_d = 15/15$.

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 6: 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	11484	5.76
	4	4	10	SF4	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, 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, 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. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

3) 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.

4) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA, 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/HSPA+ channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCI and AG index values.

5) 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 7: 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	Not applicable (dual cell operation not supported)	
Category 12	5	1	3630	28800	QPSK, 16QAM, 64QAM		
Category 13	15	1	35280	259200			
Category 14	15	1	42192	259200	QPSK, 16QAM		
Category 15	15	1	23370	345600			
Category 16	15	1	27952	345600	QPSK, 16QAM, 64QAM		-
Category 17 NOTE 2	15	1	35280	259200			
			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			
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 $> \frac{1}{2}$ 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 $> \frac{1}{2}$ 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.

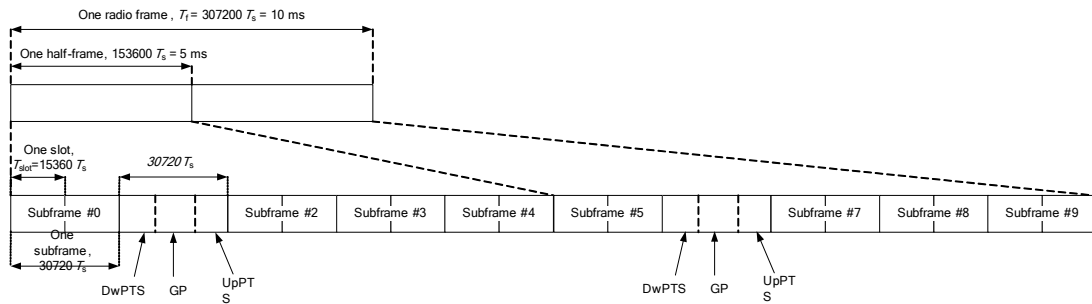


Figure 1: Frame structure type 2

Table 8: 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	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$	-	-	-	-	-
9	$13168 \cdot T_s$	-	-	-	-	-

Table 9: 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:

$$\text{Duty cycle} = (30720\text{Ts} * \text{Ups} + \text{Uplink Component} * \text{Specials}) / (307200\text{Ts})$$

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

$$\text{Uplink Component} = \text{UpPTS}$$

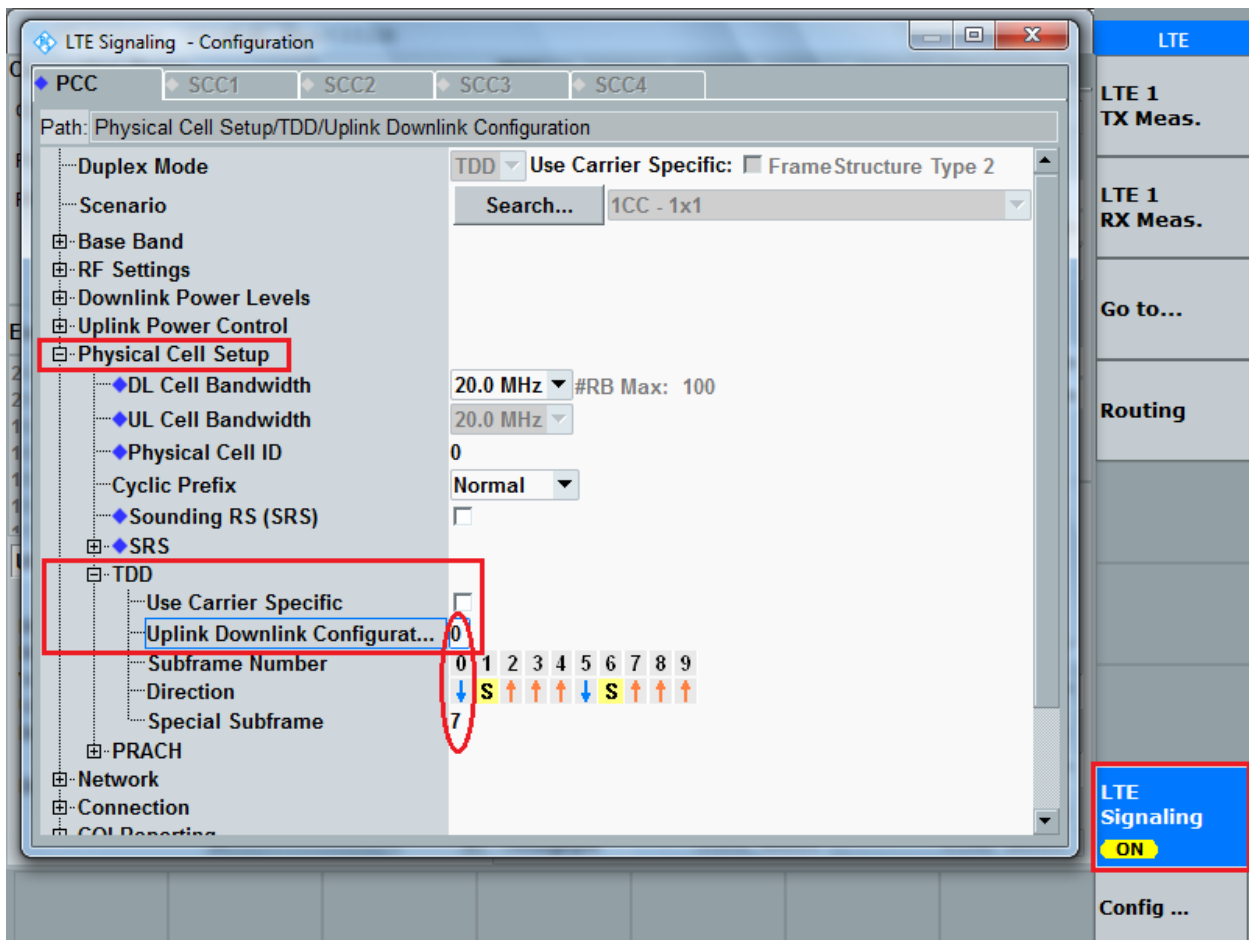
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720\text{Ts} * \text{Ups}) + \text{UpPTS} * \text{Specials}] / (307200\text{Ts})$$

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			
	D	S	U	Normal cyclic prefix in uplink		Extended cyclic prefix in uplink		Normal cyclic prefix in uplink		Extended cyclic prefix in uplink	
				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 5G NR Test Configuration

For 5G NR SAR testing, due to test setup limitations, SAR testing for NR was performed using factory test mode software to establish the connection and perform SAR with 100% transmission.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation and QPSK was observed as the worst one and set for all conducted and radiated. Output power measurements were measured on QPSK, 1 6QAM, 64QAM, 256QAM modulations.

5.3.6 LTE CA specification

The device supports LTE advanced Rel. 15, Carrier Aggregation (CA) on downlink for Intra band and inter-band. CA is supported for Intra band only, more details information is provided in tables below:

1) DL CA Intra band contiguous

E-UTRA CA configuration / Bandwidth combination set								
E-UTRA CA configuration	Uplink CA configurations (NOTE 3)	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_7C	CA_7C	15	15				40	0
		20	20					
		10	20				40	1
		15	15, 20					
		20	10, 15, 20				40	2
		15	10, 15					
CA_38C	CA_38C	15	15				40	0
		20	20					
CA_41C	CA_41C	10	20				40	0
		15	15, 20					
		20	10, 15, 20					
		5, 10	20				40	1
		15	15, 20					
		20	5, 10, 15, 20				40	2
		10	15, 20					
		15	10, 15, 20					
		20	10, 15, 20				40	3
		10	20					
20	20							

NOTE 1: The CA configuration refers to an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter).
Absence of a CA bandwidth class for an operating band implies support of all classes.



NOTE 2: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 3: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 4: Restricted to E-UTRA operation when inter-band carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

5.3.7 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.

5.3.8 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 hopping off and data rate set for DH5.

5.3.9 Power Reduction Configuration

Overview of power reduction scenarios

The mobile phone device meets SAR requirements by accurately reducing the power of various scenes. Mainly the following scenarios:

- 1) Head SAR is mainly determined by whether the receiver is working.
- 2) Body-worn SAR is judged by WIFI state working + the receiver not working
- 3) Hotspot SAR is judged by WIFI hotspot state working + the receiver not working

Description of power reduction scenarios

1) The mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head or body.

When there is a voice call (including VOIP) and the audio is actively routed through the earpiece receiver, which indicating the head exposure condition it will trigger the head exposure reduced the power.

When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body exposure conditions will trigger the body exposure reduced the power.

When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.

WWAN Reduced power level table

Reduced level	Receiver state	Transmitting	Antenna	Power reduced bands
		conditions		
Level 1	On (head scenario)	WWAN Use Only	ANT 0	GSM 850;WCDMA B5;LTE B5
			ANT 3	PCS 1900/DTM 1900/WCDMA B2/WCDMA B4; LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 5	5G NR n7;EN-DC LTE B7
Level 2	On (head scenario)	WWAN + WLAN 2.4G	ANT 0	GSM 850;DTM 850;WCDMA B5;LTE B5/B12/B26
			ANT 3	DTM 1900;WCDMA B2/ B4;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 5	5G NR n7;EN-DC LTE B7
Level 3	On (head scenario)	WWAN + WLAN 5G	ANT 0	GSM 850;DTM 850;WCDMA B5;LTE B5/B12/B26
			ANT 3	DTM 1900;WCDMA B2/ B4;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 5	5G NR n7;EN-DC LTE B7



Level 4	On (head scenario)	WWAN + WLAN 5G + WLAN2.4G	ANT 0	GSM 850;DTM 850;WCDMA B5;LTE B5/B12/B26
			ANT 3	DTM 1900;WCDMA B2/ B4;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 5	5G NR n7;EN-DC LTE B7
Level 5	Off (Body-worn & Specific scenario)	WWAN Use Only	ANT 3	WCDMA B2;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 4	WCDMA B2;LTE B2;5G NR n7/n41
			ANT 5	5G NR n7;EN-DC LTE B7
Level 6	Off (Body-worn & Hotspot & Specific scenario)	WWAN + WLAN 2.4G	ANT 0	LTE B5
			ANT 1	LTE B5
			ANT 3	WCDMA B2/B4;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 4	WCDMA B2;LTE B2;5G NR n7/n41
Level 7	Off (Body-worn & Hotspot & Specific scenario)	WWAN + WLAN 5G	ANT 0	LTE B5
			ANT 1	LTE B5
			ANT 3	WCDMA B2/B4;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 4	WCDMA B2;LTE B2;5G NR n7/n41
Level 8	Off (Body-worn & Hotspot & Specific scenario)	WWAN + WLAN 5G + WLAN2.4G	ANT 0	LTE B5
			ANT 1	LTE B5
			ANT 3	WCDMA B2/B4;LTE B2/B4/B7/B38/B41/B66;5G NR n7/n41
			ANT 4	WCDMA B2;LTE B2;5G NR n7/n41
			ANT 5	5G NR n7;EN-DC LTE B7

Mode	Band	Full power (dBm)	Antenna	Head(Receiver on)				Body-worn /Product Specific 10-g SAR (Receiver off)	Hotspot SAR (Receiver off)	Body-worn /Hotspot SAR /Product Specific 10-g SAR (Receiver off)				
				MAX Standalone	MAX Simultaneous transmission					MAX Standalone	MAX Standalone	MAX Simultaneous transmission		
					+ 2.4G WLAN	+ 5G WLAN	+5G WLAN +2.4G WLAN					+ 2.4G WLAN	+ 5G WLAN	+5G WLAN
GSM (CS)	GSM 850	33.8	Ant.0	1.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0		
GSM (CS)	GSM 1900	30.8	Ant.3	4.5	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0		
12.2kbps RMC	WCDMA Band2	24.2	Ant.3	6.5	7.5	7.5	7.5	4.5	4.5	4.5	4.5	4.5		
12.2kbps RMC	WCDMA Band4	24.2	Ant.3	7.0	8.5	8.5	8.5	3.0	3.5	3.5	3.5	3.5		
12.2kbps RMC	WCDMA Band5	24.8	Ant.3	1.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0		
LTE Bands	LTE2	24.5	Ant.3	7.0	8.0	8.0	8.0	4.5	4.5	4.5	4.5	4.5		
	LTE4	24.5	Ant.3	8.0	8.5	8.5	8.5	4.5	5.0	5.0	5.0	5.0		
	LTE5	24.8	Ant.0	2.0	6.0	6.0	6.0	0.0	1.0	1.0	1.0	1.0		
	LTE7	24.0	Ant.3	9.0	11.0	11.0	11.0	4.0	5.0	5.0	5.0	5.0		
	LTE12	24.8	Ant.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0		
	LTE17	24.8	Ant.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0		
	LTE26	24.8	Ant.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0		
	LTE38	24.5	Ant.3	7.0	8.5	8.5	8.5	3.0	3.5	3.5	3.5	3.5		
LTE41	24.5	Ant.3	7.5	8.5	8.5	8.5	3.0	3.5	3.5	3.5	3.5			



Mode	Band	Full power (dBm)	Antenna	Head(Receiver on)				Body-worn /Product Specific 10-g SAR (Receiver off)	Hotspot SAR (Receiver off)	Body-worn /Hotspot SAR /Product Specific 10-g SAR (Receiver off)		
				MAX Standalone	MAX Simultaneous transmission			MAX Standalone	MAX Standalone	MAX Simultaneous transmission		
					WWAN	WWAN	WWAN			WWAN	WWAN	WWAN
					+ 2.4G WLAN	+ 5G WLAN	+5G WLAN			+2.4G WLAN	+ 2.4G WLAN	+ 5G WLAN
LTE66	24.5	Ant.0	8.0	8.5	8.5	8.5	4.5	5.0	5.0	5.0	5.0	
EN-DC_LTE	LTE7	24.0	Ant.5	7.5	9.5	9.5	9.5	4.0	6.5	6.5	6.5	6.5
EN-DC_7A+N5A	LTE7	24.0	Ant.3	11.0	11.0	11.0	11.0	4.0	6.5	6.5	6.5	6.5
	n5	24.5	Ant.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EN-DC_5A+N7A	LTE5	24.8	Ant.0	2.0	6.0	6.0	6.0	0.0	1.0	1.0	1.0	1.0
	n7	24.0	Ant.3	9.0	11.0	11.0	11.0	4.0	5.0	5.0	5.0	5.0
SA Bands	n7	24.0	ANT3	9.0	11.0	11.0	11.0	5.0	5.0	5.0	5.0	5.0
	n41	24.0	Ant.3	9.0	9.5	9.5	9.5	5.0	5.5	5.5	5.5	5.5
GSM (CS)	GSM 850	33.8	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GSM (CS)	GSM 1900	30.8	Ant.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.2kbps RMC	WCDMA Band2	24.2	Ant.4	0.0	0.0	0.0	0.0	4.5	4.5	4.5	4.5	4.5
12.2kbps RMC	WCDMA Band4	24.2	Ant.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.2kbps RMC	WCDMA Band5	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LTE Bands	LTE2	24.5	Ant.4	0.0	0.0	0.0	0.0	4.5	5.0	5.0	5.0	5.0
	LTE4	24.5	Ant.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LTE5	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
	LTE7	24.0	Ant.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LTE12	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LTE17	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LTE26	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LTE38	24.5	Ant.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LTE41	24.5	Ant.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EN-DC_7A+N5A	LTE7	24.0	Ant.5	7.5	9.5	9.5	9.5	4.0	6.5	6.5	6.5	6.5
	n5	24.5	Ant.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EN-DC_5A+N7A	LTE5	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
	n7	24.0	Ant.3	9.0	11.0	11.0	11.0	4.0	5.0	5.0	5.0	5.0
SA Bands	n7	24.0	ANT4	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
	n41	24.0	ANT4	0.0	0.0	0.0	0.0	3.0	4.0	4.0	4.0	4.0
EN-DC_7A+N5A	LTE7	24.0	Ant.3	11.0	11.0	11.0	11.0	4.0	6.5	6.5	6.5	6.5



	n5	24.5	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EN-DC_5A+N7A	LTE5	24.8	Ant.0	2.0	6.0	6.0	6.0	0.0	1.0	1.0	1.0	1.0	
	n7	24.0	ANT5	9.5	12.5	12.5	12.5	4.0	5.0	5.0	5.0	5.0	
Mode	Band	Full power (dBm)	Antenna	Head(Receiver on)				Body-worn /Product Specific 10-g SAR (Receiver off)	Hotspot SAR (Receiver off)	Body-worn /Hotspot SAR /Product Specific 10-g SAR (Receiver off)			
				MAX Standalone	MAX Simultaneous transmission			MAX Standalone	MAX Standalone	MAX Simultaneous transmission			
					WWAN + 2.4G WLAN	WWAN + 5G WLAN	WWAN +5G WLAN +2.4G WLAN			WWAN + 2.4G WLAN	WWAN + 5G WLAN	WWAN +5G WLAN +2.4G WLAN	
EN-DC_7A+N5A	LTE7	24.0	Ant.5	7.5	9.5	9.5	9.5	4.0	6.5	6.5	6.5	6.5	
	n5	24.5	Ant.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EN-DC_5A+N7A	LTE5	24.8	Ant.1	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	
	n7	24.0	ANT5	9.5	12.5	12.5	12.5	4.0	5.0	5.0	5.0	5.0	

WLAN Reduced power level table

Reduced level	Receiver state	Transmitting	Antenna	Power reduced bands
		conditions		
Level 1	On (head scenario)	WLAN Use Only	ANT 2	WIFI 2.4G;WIFI 5G
			ANT 6	WIFI 2.4G
			MIMO(ANT 6+ANT 2)	WIFI 2.4G
			ANT 9	WIFI 5G
			MIMO(ANT 9+ANT 2)	WIFI 5G
Level 2	On (head scenario)	WWAN + WLAN 2.4G	ANT 2	WIFI 2.4G;WIFI 5G
			ANT 6	WIFI 2.4G
Level 3	On (head scenario)	WWAN + WLAN 5G	ANT 9	WIFI 5G
			MIMO(ANT 9+ANT 2)	WIFI 5G
Level 4	On (head scenario)	WWAN + WLAN 5G + WLAN2.4G	ANT 2	WIFI 2.4G;WIFI 5G
			ANT 6	WIFI 2.4G
			MIMO(ANT 6+ANT 2)	WIFI 2.4G
			ANT 9	WIFI 5G
			MIMO(ANT 9+ANT 2)	WIFI 5G
Level 5	Off (Body-wornt&Specific scenario)	WLAN Use Only	ANT 2	WIFI 2.4G;WIFI 5G
			ANT 6	WIFI 2.4G
			MIMO(ANT 6+ANT 2)	WIFI 2.4G
			ANT 9	WIFI 5G
			MIMO(ANT 9+ANT 2)	WIFI 5G
Level 6	Off (Body-worn&Hotspot&Specific scenario)	WWAN + WLAN 2.4G	ANT 2	WIFI 2.4G
			ANT 6	WIFI 2.4G
Level 7	Off (Body-worn&Hotspot&Specific scenario)	WWAN + WLAN 5G	ANT 9	WIFI 5G
			ANT 2	WIFI 5G
			MIMO(ANT 9+ANT 2)	WIFI 5G
Level 8	Off	WWAN + WLAN	ANT 2	WIFI 2.4G;WIFI 5G



	(Body-worn&Hotspot&Specific scenario)	5G + WLAN2.4G	ANT 6	WIFI 2.4G
			MIMO(ANT 6+ANT 2)	WIFI 2.4G
			ANT 9	WIFI 5G
			MIMO(ANT 9+ANT 2)	WIFI 5G

Mode	Band	Full power (dBm)	Antenna	Head(Receiver on)			Body-worn /Product Specific 10-g SAR (Receiver off)	Hotspot SAR (Receiver off)	Body-worn /Hotspot SAR /Product Specific 10-g SAR (Receiver off)	
				MAX Standalone	MAX Simultaneous transmission		MAX Standalone	MAX Standalone	MAX Simultaneous transmission	
					WWAN + 2.4/5G WLAN	WWAN + 5G WLAN +2.4G WLAN			WWAN + 2.4/5G WLAN	WWAN +2.4G WLAN
2.4G	802.11b CH1-11	18.5	Ant.6	3.5	6.5	8.5	0.0	6.5	6.5	9.5
	802.11g CH1-11	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5
	802.11nHT20 CH1-11	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5
	802.11nHT40 CH3-9	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5
	802.11acVHT20 CH1-11	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5
	802.11acVHT40 CH3-9	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5
	802.11axHE20 CH1-11	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5
802.11axHE40 CH3-9	18.5	Ant.6	4.0	7.0	8.5	0.0	6.5	6.5	9.5	
5G U-NII-1	802.11a CH36-48	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11nHT20 CH36-48	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11nHT40 CH38-46	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT20 CH36-48	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT40 CH38-46	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT80 CH42	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE20 CH36-48	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE40 CH38-46	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
802.11axHE80 CH42	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5	
5G U-NII-2A	802.11a CH52-64	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11nHT20 CH52-64	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11nHT40 CH54-62	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT20 CH52-64	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT40 CH54-62	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT80 CH58	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE20 CH52-64	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE40 CH54-62	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE80 CH58	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
5G U-NII-2C	802.11a CH100-140	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11nHT20 CH100-140	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11nHT40 CH102-134	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT20 CH100-140	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5



	802.11acVHT40 CH102-134	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11acVHT80 CH106-122	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE20 CH100-140	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE40 CH102-134	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
	802.11axHE80 CH106-122	18.5	Ant.9	5.0	8.0	8.0	0.0	4.5	4.5	7.5
5G U-NII-3	802.11a CH149-165	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11nHT20 CH149-165	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11nHT40 CH151-159	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11acVHT20 CH149-165	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11acVHT40 CH151-159	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11acVHT80 CH155	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11axHE20 CH149-165	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11axHE40 CH151-159	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11axHE80 CH155	13.5	Ant.9	0.0	3.0	3.0	0.0	0.0	0.0	2.5



Mode	Band	Full power (dBm)	Antenna	Head(Receiver on)			Body-worn /Product Specific 10-g SAR (Receiver off)	Hotspot SAR (Receiver off)	Body-worn /Hotspot SAR /Product Specific 10-g SAR (Receiver off)	
				MAX Standalone	MAX Simultaneous transmission		MAX Standalone	MAX Standalone	MAX Simultaneous transmission	
					WWAN + 2.4/5G WLAN	WWAN + 5G WLAN			WWAN + 2.4/5G WLAN	WWAN + 5G WLAN
						WLAN + 2.4G WLAN				
2.4G	802.11b CH1-11	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11g CH1-11	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11nHT20 CH1-11	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11nHT40 CH3-9	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11acVHT20 CH1-11	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11acVHT40 CH3-9	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11axHE20 CH1-11	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
	802.11axHE40 CH3-9	18.5	Ant.2	1.5	5.5	8.5	0.0	6.5	6.5	9.5
5G U-NII-1	802.11a CH36-48	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11nHT20 CH36-48	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11nHT40 CH38-46	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT20 CH36-48	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT40 CH38-46	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT80 CH42	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11axHE20 CH36-48	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11axHE40 CH38-46	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
5G U-NII-2A	802.11a CH52-64	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11nHT20 CH52-64	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11nHT40 CH54-62	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT20 CH52-64	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT40 CH54-62	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT80 CH58	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11axHE20 CH52-64	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11axHE40 CH54-62	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
5G U-NII-2C	802.11a CH100-140	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11nHT20 CH100-140	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11nHT40 CH102-134	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT20 CH100-140	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT40 CH102-134	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11acVHT80 CH106-122	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11axHE20 CH100-140	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
	802.11axHE40 CH102-134	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5
802.11axHE80 CH106-122	18.5	Ant.2	4.0	7.0	7.0	0.0	4.5	4.5	7.5	

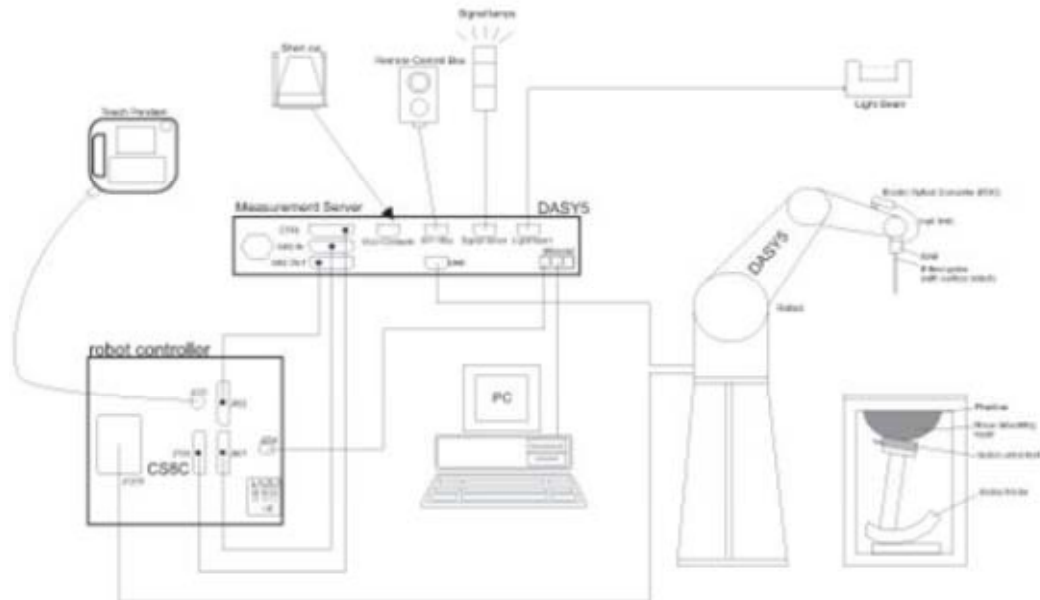


5G U-NII-3	802.11a CH149-165	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11nHT20 CH149-165	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11nHT40 CH151-159	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11acVHT20 CH149-165	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11acVHT40 CH151-159	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11acVHT80 CH155	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11axHE20 CH149-165	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11axHE40 CH151-159	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5
	802.11axHE80 CH155	13.5	Ant.2	0.0	3.0	3.0	0.0	0.0	0.0	2.5

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 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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 $\pm 10\%$. The spherical isotropy was evaluated and found to be better than ± 0.25 dB. 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 below 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.



$$\text{SAR} = C \Delta T / \Delta t$$

Where: Δt = Exposure time (30 seconds),
 C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.

Or

$$\text{SAR} = |E|^2 \sigma / \rho$$

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.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	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 \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom Scan

Zoom scans are used to 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 whose 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.

			≤3GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{zoom} \Delta y_{zoom}$			≤2GHz: ≤8mm 2 – 3GHz: ≤5mm*	3 – 4GHz: ≤5mm* 4 – 6GHz: ≤4mm*
Maximum zoom scan spatial resolution, normal to phantom surface	Uniform grid: $\Delta z_{zoom}(n)$		≤5mm	3 – 4GHz: ≤4mm 4 – 5GHz: ≤3mm 5 – 6GHz: ≤2mm
	Graded grid	$\Delta z_{zoom}(1)$: between 1 st two points closest to phantom surface	≤4mm	3 – 4GHz: ≤3mm 4 – 5GHz: ≤2.5mm 5 – 6GHz: ≤2mm
		$\Delta z_{zoom}(n > 1)$: between subsequent points	≤1.5 • $\Delta z_{zoom}(n-1)$	
Minimum zoom scan volume	X, y, z		≥30mm	3 – 4GHz: ≥28mm 4 – 5GHz: ≥25mm 5 – 6GHz: ≥22mm
<p>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.</p> <p>* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> 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.</p>				

Volume Scan Procedures

The volume scan is used to 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

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Cal.	Cal. Due Date
Network analyzer	Agilent	E5071B	MY42404014	2020-05-17	2021-05-16
Dielectric Probe Kit	HP	85070E	US44020115	2020-05-17	2021-05-16
Power meter	Agilent	E4417A	GB41291714	2020-05-17	2021-05-16
Power sensor	Agilent	N8481H	MY50350004	2020-05-17	2021-05-16
Power sensor	Agilent	E9327A	US40441622	2020-05-17	2021-05-16
Dual directional coupler	Agilent	778D-012	50519	/	/
Dual directional coupler	Agilent	777D	50146	/	/
Dual directional coupler	UCL	UCL-DDC0 56G-S	20010600118	/	/
Amplifier	INDEXSAR	IXA-020	0401	2020-05-17	2021-05-16
Wireless communication tester	Anritsu	MT8820C	6201342015	2020-05-17	2021-05-16
Wireless communication tester	Key sight	E5515C	MY48360988	2019-12-15	2020-12-14
				2020-12-13	2021-12-12
Wideband radio communication tester	R&S	CMW 500	113645	2020-05-17	2021-05-16
Base Station Simulator	R&S	CMW270	100673	2020-05-17	2021-05-16
E-field Probe	SPEAG	EX3DV4	3677	2020-07-06	2021-07-05
DAE	SPEAG	DAE4	1291	2020-02-24	2021-02-23
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	2018-05-02	2021-05-01
Validation Kit 5GHz	SPEAG	D5GHzV2	1151	2020-02-27	2023-02-26
Temperature Probe	Tianjin jinming	JM222	381	2020-05-25	2021-05-24
Hygrothermograph	Anymetr	HTC-1	TY2020A043	2020-05-19	2021-05-18
Twin SAM Phantom	Speag	SAM1	1534	/	/
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)	Water (%)	Salt (%)	Sugar (%)	Glycol (%)	Preventol (%)	Cellulose (%)	ϵ_r	σ (s/m)
750	41.448	1.452	56	0	0.1	1.0	41.9	0.89
835	41.45	1.45	56	0	0.1	1.0	41.5	0.90
1750	55.24	0.31	0	44.45	0	0	40.1	1.37
1900	55.242	0.306	0	44.452	0	0	40.0	1.40
2450	62.7	0.5	0	36.8	0	0	39.2	1.80
2600	55.242	0.306	0	44.452	0	0	39.0	1.96
Frequency (MHz)	Water (%)	Diethylenglycol monohexylether			Triton X-100		ϵ_r	σ (s/m)
5250	65.53	17.24			17.23		35.9	4.71
5600	65.53	17.24			17.23		35.5	5.07
5750	65.53	17.24			17.23		35.4	5.22

Measurements results

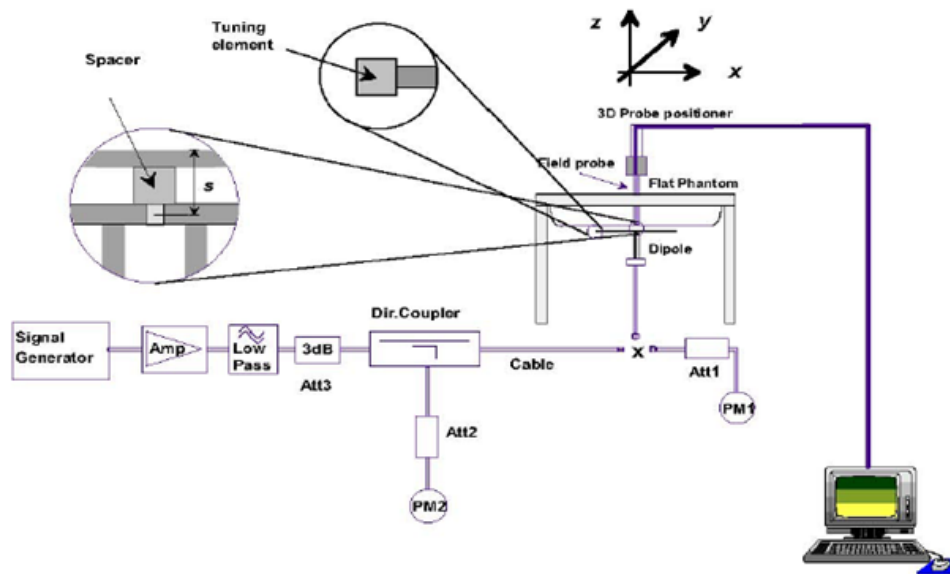
Frequency (MHz)	Test Date	Temp °C	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
750	12/4/2020	21.5	42.3	0.88	41.9	0.89	0.95	-1.12
835	12/7/2020	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	12/8/2020	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
	12/9/2020	21.5	41.4	0.92	41.5	0.90	-0.24	2.22
1750	12/5/2020	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	12/22/2020	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	12/23/2020	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	12/6/2020	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	12/10/2020	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	12/11/2020	21.5	40.0	1.40	40.0	1.40	0.00	0.00
2450	12/18/2020	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
2600	12/12/2020	21.5	38.2	1.96	39.0	1.96	-2.05	0.00
	12/13/2020	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	12/16/2020	21.5	38.4	1.94	39.0	1.96	-1.54	-1.02
	12/19/2020	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
	12/21/2020	21.5	38.5	1.95	39.0	1.96	-1.28	-0.51
	12/24/2020	21.5	38.2	1.96	39.0	1.96	-2.05	0.00
	12/25/2020	21.5	38.2	1.96	39.0	1.96	-2.05	0.00
5250	12/17/2020	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
5600	12/14/2020	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	12/15/2020	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.

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 1 System 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)	$\Delta\Omega$
Dipole D2600V2 SN: 1025	Head Liquid	5/2/2018	-22.0	/	48.1	/
		5/1/2019	-22.5	-2.2	48.7	-0.6

System Check results

Frequency (MHz)	Test Date	Temp $^{\circ}\text{C}$	250mW /100mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit $\pm 10\%$)	Plot No.
750	12/4/2020	21.5	2.13	8.52	8.37	1.79	1
835	12/7/2020	21.5	2.44	9.76	9.65	1.14	2
	12/8/2020	21.5	2.46	9.84	9.65	1.97	3
	12/9/2020	21.5	2.43	9.72	9.65	0.73	4
1750	12/5/2020	21.5	8.95	35.80	35.90	-0.28	5
	12/22/2020	21.5	9.11	36.44	35.90	1.50	6
	12/23/2020	21.5	8.96	35.84	35.90	-0.17	7
1900	12/6/2020	21.5	9.88	39.52	39.50	0.05	8
	12/10/2020	21.5	9.85	39.40	39.50	-0.25	9
	12/11/2020	21.5	10.55	42.20	39.50	6.84	10
2450	12/18/2020	21.5	13.7	54.80	52.30	4.78	11
2600	12/12/2020	21.5	13.5	54.00	54.10	-0.18	12
	12/13/2020	21.5	13.9	55.60	54.10	2.77	13
	12/16/2020	21.5	13.88	55.52	54.10	2.62	14
	12/19/2020	21.5	13.94	55.76	54.10	3.07	15
	12/21/2020	21.5	13.9	55.60	54.10	2.77	16
	12/24/2020	21.5	13.9	55.60	54.10	2.77	17
	12/25/2020	21.5	13.89	55.56	54.10	2.70	18
12/26/2020	21.5	13.76	55.04	54.10	1.74	19	
5250	12/17/2020	21.5	7.87	78.70	78.00	0.90	20
5600	12/14/2020	21.5	7.67	76.70	80.50	-4.72	21
5750	12/15/2020	21.5	7.66	76.60	77.40	-1.03	22

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			Mod. Validation		
								Sensitivity	Probe Linearity	Probe Isotropy	Mod. Type	Duty Factor	PAR
750	7/6/2020	3677	EX3DV4	750	Head	42.81	0.85	PASS	PASS	PASS	FDD	PASS	N/A
835	7/6/2020	3677	EX3DV4	835	Head	42.22	0.90	PASS	PASS	PASS	GMSK	PASS	N/A
1750	7/6/2020	3677	EX3DV4	1750	Head	39.91	1.32	PASS	PASS	PASS	N/A	N/A	N/A
1900	7/6/2020	3677	EX3DV4	1900	Head	39.43	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
2450	7/6/2020	3677	EX3DV4	2450	Head	38.19	1.83	PASS	PASS	PASS	OFDM	PASS	PASS
2600	7/6/2020	3677	EX3DV4	2600	Head	37.60	1.99	PASS	PASS	PASS	TDD	PASS	N/A
5250	7/6/2020	3677	EX3DV4	5250	Head	35.36	4.83	PASS	PASS	PASS	OFDM	N/A	PASS
5600	7/6/2020	3677	EX3DV4	5600	Head	34.43	5.29	PASS	PASS	PASS	OFDM	N/A	PASS
5750	7/6/2020	3677	EX3DV4	5750	Head	34.07	5.47	PASS	PASS	PASS	OFDM	N/A	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

GSM 850 ANT 1 Full Power&Level1&2&3 &4&5&6&7&8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(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	33.06	33.15	33.04	9.03	24.77	24.03	24.12	24.01
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.50	33.05	32.81	32.95	9.03	24.47	24.02	23.78	23.92
	2 Tx Slots	31.50	30.40	30.19	30.33	6.02	25.48	24.38	24.17	24.31
	3 Tx Slots	30.00	28.80	28.93	28.86	4.26	25.74	24.54	24.67	24.60
	4 Tx Slots	29.50	27.83	27.73	27.94	3.01	26.49	24.82	24.72	24.93
EGPRS (8PSK)	1 Tx Slot	28.50	26.81	27.04	27.03	9.03	19.47	17.78	18.01	18.00
	2 Tx Slots	26.00	25.24	25.17	25.20	6.02	19.98	19.22	19.15	19.18
	3 Tx Slots	24.50	23.45	23.77	23.52	4.26	20.24	19.19	19.51	19.26
	4 Tx Slots	24.00	22.03	22.08	22.03	3.01	20.99	19.02	19.07	19.02
GSM 850 ANT 0 Full Power&Level5&6&7 &8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(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	33.06	33.15	33.04	9.03	24.77	24.03	24.12	24.01
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.50	33.05	32.81	32.95	9.03	24.47	24.02	23.78	23.92
	2 Tx Slots	31.50	30.40	30.19	30.33	6.02	25.48	24.38	24.17	24.31
	3 Tx Slots	30.00	28.80	28.93	28.86	4.26	25.74	24.54	24.67	24.60
	4 Tx Slots	29.50	27.83	27.73	27.94	3.01	26.49	24.82	24.72	24.93
EGPRS (8PSK)	1 Tx Slot	28.50	26.81	27.04	27.03	9.03	19.47	17.78	18.01	18.00
	2 Tx Slots	26.00	25.24	25.17	25.20	6.02	19.98	19.22	19.15	19.18
	3 Tx Slots	24.50	23.45	23.77	23.52	4.26	20.24	19.19	19.51	19.26
	4 Tx Slots	24.00	22.03	22.08	22.03	3.01	20.99	19.02	19.07	19.02
GSM 850 ANT 0 Level 1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	32.80	32.27	32.31	32.22	9.03	23.77	23.24	23.28	23.19
GPRS/ EGPRS	1 Tx Slot	32.50	32.17	32.00	32.17	9.03	23.47	23.14	22.97	23.14
	2 Tx Slots	30.50	29.64	29.36	29.49	6.02	24.48	23.62	23.34	23.47



(GMSK)	3 Tx Slots	29.00	28.02	28.06	28.09	4.26	24.74	23.76	23.80	23.83
	4 Tx Slots	28.50	26.96	26.98	27.10	3.01	25.49	23.95	23.97	24.09
EGPRS (8PSK)	1 Tx Slot	27.50	25.96	26.27	26.21	9.03	18.47	16.93	17.24	17.18
	2 Tx Slots	25.00	24.48	24.28	24.36	6.02	18.98	18.46	18.26	18.34
	3 Tx Slots	23.50	22.63	22.99	22.64	4.26	19.24	18.37	18.73	18.38
	4 Tx Slots	23.00	21.21	21.28	21.25	3.01	19.99	18.20	18.27	18.24
GSM 850 ANT 0 Level2&3&4		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	31.80	31.25	31.15	31.22	9.03	22.77	22.22	22.12	22.19
GPRS/ EGPRS (GMSK)	1 Tx Slot	31.50	31.05	30.82	31.01	9.03	22.47	22.02	21.79	21.98
	2 Tx Slots	29.50	28.64	28.24	28.28	6.02	23.48	22.62	22.22	22.26
	3 Tx Slots	28.00	26.93	26.94	27.08	4.26	23.74	22.67	22.68	22.82
	4 Tx Slots	27.50	25.82	25.92	25.95	3.01	24.49	22.81	22.91	22.94
EGPRS (8PSK)	1 Tx Slot	26.50	24.84	25.21	25.13	9.03	17.47	15.81	16.18	16.10
	2 Tx Slots	24.00	23.32	23.26	23.33	6.02	17.98	17.30	17.24	17.31
	3 Tx Slots	22.50	21.61	21.78	21.60	4.26	18.24	17.35	17.52	17.34
	4 Tx Slots	22.00	20.03	20.23	20.07	3.01	18.99	17.02	17.22	17.06
GSM 1900 ANT 4 Full Power&Level1&2&3 &4&5&6&7&8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.80	30.23	30.31	30.20	9.03	21.77	21.20	21.28	21.17
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.50	30.21	30.28	30.16	9.03	21.47	21.18	21.25	21.13
	2 Tx Slots	28.00	27.46	27.54	27.39	6.02	21.98	21.44	21.52	21.37
	3 Tx Slots	27.00	26.31	26.34	26.26	4.26	22.74	22.05	22.08	22.00
	4 Tx Slots	25.50	24.99	25.04	24.89	3.01	22.49	21.98	22.03	21.88
EGPRS (8PSK)	1 Tx Slot	27.50	25.78	25.74	25.95	9.03	18.47	16.75	16.71	16.92
	2 Tx Slots	25.00	23.37	23.55	23.57	6.02	18.98	17.35	17.53	17.55
	3 Tx Slots	24.00	22.24	22.09	22.28	4.26	19.74	17.98	17.83	18.02
	4 Tx Slots	22.00	20.59	20.64	20.47	3.01	18.99	17.58	17.63	17.46
GSM 1900 ANT 3 Full Power&Level5&6&7 &8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.80	30.23	30.31	30.20	9.03	21.77	21.20	21.28	21.17
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.50	30.21	30.28	30.16	9.03	21.47	21.18	21.25	21.13
	2 Tx Slots	28.00	27.46	27.54	27.39	6.02	21.98	21.44	21.52	21.37
	3 Tx Slots	27.00	26.31	26.34	26.26	4.26	22.74	22.05	22.08	22.00



	4 Tx Slots	25.50	24.99	25.04	24.89	3.01	22.49	21.98	22.03	21.88
EGPRS (8PSK)	1 Tx Slot	27.50	25.78	25.74	25.95	9.03	18.47	16.75	16.71	16.92
	2 Tx Slots	25.00	23.37	23.55	23.57	6.02	18.98	17.35	17.53	17.55
	3 Tx Slots	24.00	22.24	22.09	22.28	4.26	19.74	17.98	17.83	18.02
	4 Tx Slots	22.00	20.59	20.64	20.47	3.01	18.99	17.58	17.63	17.46
GSM 1900 ANT 3 Level1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	26.30	25.99	25.77	25.94	9.03	17.27	16.96	16.74	16.91
GPRS/ EGPRS (GMSK)	1 Tx Slot	26.00	25.74	25.92	25.61	9.03	16.97	16.71	16.89	16.58
	2 Tx Slots	23.50	23.16	23.25	22.96	6.02	17.48	17.14	17.23	16.94
	3 Tx Slots	22.50	21.78	21.83	22.06	4.26	18.24	17.52	17.57	17.80
	4 Tx Slots	21.00	20.61	20.46	20.38	3.01	17.99	17.60	17.45	17.37
EGPRS (8PSK)	1 Tx Slot	23.00	22.56	22.61	22.59	9.03	13.97	13.53	13.58	13.56
	2 Tx Slots	20.50	20.19	20.17	19.97	6.02	14.48	14.17	14.15	13.95
	3 Tx Slots	19.50	17.68	17.62	17.75	4.26	15.24	13.42	13.36	13.49
	4 Tx Slots	17.50	16.27	16.24	16.23	3.01	14.49	13.26	13.23	13.22
GSM 1900 ANT 3 Level2&3&4		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	25.80	25.19	25.29	25.11	9.03	16.77	16.16	16.26	16.08
GPRS/ EGPRS (GMSK)	1 Tx Slot	25.50	25.27	25.26	25.14	9.03	16.47	16.24	16.23	16.11
	2 Tx Slots	23.00	22.29	22.46	22.47	6.02	16.98	16.27	16.44	16.45
	3 Tx Slots	22.00	21.35	21.21	21.22	4.26	17.74	17.09	16.95	16.96
	4 Tx Slots	20.50	19.81	20.06	19.76	3.01	17.49	16.80	17.05	16.75
EGPRS (8PSK)	1 Tx Slot	22.50	20.76	20.80	20.83	9.03	13.47	11.73	11.77	11.80
	2 Tx Slots	20.00	18.44	18.63	18.41	6.02	13.98	12.42	12.61	12.39
	3 Tx Slots	19.00	17.21	17.14	17.19	4.26	14.74	12.95	12.88	12.93
	4 Tx Slots	17.00	15.81	15.64	15.59	3.01	13.99	12.80	12.63	12.58
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:										
1. Standalone: GSM 850 GMSK (GPRS) mode with 4 time slots for Max power, GSM 1900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above..										

DTM 850 ANT 1 Full Power&Level1&2&3&4&5 &6&7&8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	31.50	29.87	29.90	29.83	6.02	25.48	23.85	23.88	23.81
	3 Tx Slots	29.50	28.09	28.08	28.07	4.26	25.24	23.83	23.82	23.81



EGPRS (8PSK)	2 Tx Slots	28.50	27.73	27.74	27.69	6.02	22.48	21.71	21.72	21.67
	3 Tx Slots	27.50	26.01	26.02	25.91	4.26	23.24	21.75	21.76	21.65
DTM 850 ANT 0 Full Power&Level5&6&7&8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	31.50	29.87	29.90	29.83	6.02	25.48	23.85	23.88	23.81
	3 Tx Slots	29.50	28.09	28.08	28.07	4.26	25.24	23.83	23.82	23.81
EGPRS (8PSK)	2 Tx Slots	28.50	27.73	27.74	27.69	6.02	22.48	21.71	21.72	21.67
	3 Tx Slots	27.50	26.01	26.02	25.91	4.26	23.24	21.75	21.76	21.65
DTM 850 ANT 0 Level1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	30.50	29.11	29.02	28.93	6.02	24.48	23.09	23.00	22.91
	3 Tx Slots	28.50	27.19	27.28	27.26	4.26	24.24	22.93	23.02	23.00
EGPRS (8PSK)	2 Tx Slots	27.50	26.92	26.96	26.90	6.02	21.48	20.90	20.94	20.88
	3 Tx Slots	26.50	25.15	25.19	25.01	4.26	22.24	20.89	20.93	20.75
DTM 850 ANT 0 Level2&3&4		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	29.50	27.94	27.99	27.85	6.02	23.48	21.92	21.97	21.83
	3 Tx Slots	27.50	26.04	26.07	26.19	4.26	23.24	21.78	21.81	21.93
EGPRS (8PSK)	2 Tx Slots	26.50	25.76	25.78	25.84	6.02	20.48	19.74	19.76	19.82
	3 Tx Slots	25.50	24.13	24.13	23.93	4.26	21.24	19.87	19.87	19.67
DTM 1900 ANT 4 Full Power&Level1&2&3&4&5 &6&7&8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	28.00	27.18	27.12	27.13	6.02	21.98	21.16	21.10	21.11
	3 Tx Slots	27.00	26.10	26.07	26.19	4.26	22.74	21.84	21.81	21.93
EGPRS (8PSK)	2 Tx Slots	27.00	25.55	25.58	25.55	6.02	20.98	19.53	19.56	19.53
	3 Tx Slots	24.50	23.39	23.22	23.27	4.26	20.24	19.13	18.96	19.01
DTM 1900 ANT 3 Full Power&Level5&6&7&8		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	28.00	27.18	27.12	27.13	6.02	21.98	21.16	21.10	21.11
	3 Tx Slots	27.00	26.10	26.07	26.19	4.26	22.74	21.84	21.81	21.93
EGPRS (8PSK)	2 Tx Slots	27.00	25.55	25.58	25.55	6.02	20.98	19.53	19.56	19.53



	3 Tx Slots	24.50	23.39	23.22	23.27	4.26	20.24	19.13	18.96	19.01
DTM 1900 ANT 3 Level1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	23.00	21.63	21.77	21.64	6.02	16.98	15.61	15.75	15.62
	3 Tx Slots	22.00	20.57	20.60	20.75	4.26	17.74	16.31	16.34	16.49
EGPRS (8PSK)	2 Tx Slots	22.00	20.75	20.80	20.61	6.02	15.98	14.73	14.78	14.59
	3 Tx Slots	20.00	18.49	18.38	18.73	4.26	15.74	14.23	14.12	14.47
DTM 1900 ANT 3 Level2&3&4		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GPRS/ EGPRS (GMSK)	2 Tx Slots	22.50	21.10	21.31	21.08	6.02	16.48	15.08	15.29	15.06
	3 Tx Slots	21.50	20.13	20.14	20.25	4.26	17.24	15.87	15.88	15.99
EGPRS (8PSK)	2 Tx Slots	21.50	20.28	20.38	20.17	6.02	15.48	14.26	14.36	14.15
	3 Tx Slots	19.50	17.97	17.85	18.26	4.26	15.24	13.71	13.59	14.00

9.2 WCDMA Mode

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

WCDMA		Band II(dBm) ANT 4 Full Power&Level1&2&3&4				Band II(dBm) ANT 4 Level5&6&7&8			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	23.01	23.01	22.85	24.20	18.47	18.50	18.38	19.70
HSDPA	Sub 1	22.01	22.00	21.86	23.20	17.43	17.46	17.36	18.70
	Sub 2	22.06	22.00	21.83	23.20	17.40	17.44	17.34	18.70
	Sub 3	21.53	21.49	21.36	22.70	16.88	16.92	16.82	18.20
	Sub 4	21.50	21.47	21.32	22.70	16.85	16.90	16.80	18.20
HSUPA	Sub 1	22.02	21.93	21.83	23.20	17.33	17.38	17.27	18.70
	Sub 2	20.03	19.95	19.84	21.20	15.30	15.35	15.25	16.70
	Sub 3	21.02	21.00	20.84	22.20	16.27	16.33	16.22	17.70
	Sub 4	20.01	19.96	19.83	21.20	15.24	15.30	15.19	16.70
	Sub 5	21.95	21.99	21.77	23.20	17.22	17.27	17.17	18.70
DC-HSDPA	Sub 1	22.00	21.91	21.83	23.20	17.27	17.31	17.22	18.70
	Sub 2	21.95	21.93	21.72	23.20	17.34	17.31	17.34	18.70
	Sub 3	21.51	21.44	21.19	22.70	16.68	16.87	16.82	18.20
	Sub 4	21.33	21.46	21.13	22.70	16.82	16.86	16.63	18.20
HSPA+	16QAM	21.61	21.58	21.32	22.70	16.89	16.87	16.81	18.20
WCDMA		Band II(dBm) ANT 3 Level1				Band II(dBm) ANT 3 Level2&3&4			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	16.55	16.58	16.44	17.70	15.65	15.63	15.59	16.70
HSDPA	Sub 1	15.59	15.61	15.39	16.70	14.66	14.69	14.52	15.70
	Sub 2	15.52	15.64	15.40	16.70	14.67	14.64	14.56	15.70
	Sub 3	15.04	15.04	15.01	16.20	14.03	13.99	13.92	15.20
	Sub 4	15.08	15.02	14.96	16.20	14.08	13.97	13.96	15.20
HSUPA	Sub 1	15.56	15.58	15.48	16.70	14.58	14.64	14.52	15.70
	Sub 2	13.49	13.49	13.52	14.70	12.48	12.47	12.53	13.70
	Sub 3	14.59	14.70	14.65	15.70	13.51	13.52	13.43	14.70
	Sub 4	13.54	13.54	13.50	14.70	12.50	12.45	12.45	13.70
	Sub 5	15.53	15.60	15.45	16.70	14.57	14.58	14.66	15.70
DC-HSDPA	Sub 1	15.54	15.41	15.20	16.70	14.47	14.60	14.49	15.70
	Sub 2	15.33	15.63	15.30	16.70	14.53	14.64	14.47	15.70



	Sub 3	14.87	14.99	14.82	16.20	13.86	13.94	13.76	15.20
	Sub 4	15.07	14.95	14.85	16.20	13.92	13.92	13.77	15.20
HSPA+	16QAM	15.10	15.13	15.01	16.20	14.10	14.26	14.36	15.20
WCDMA		Band II(dBm) ANT 3 Level5&6&7&8							
Tx Channel		9262	9400	9538	Tune-up Limit				
Frequency(MHz)		1852.4	1880	1907.6					
RMC	12.2kbps	18.47	18.50	18.38	19.70				
HSDPA	Sub 1	17.43	17.46	17.36	18.70				
	Sub 2	17.40	17.44	17.34	18.70				
	Sub 3	16.88	16.92	16.82	18.20				
	Sub 4	16.85	16.90	16.80	18.20				
HSUPA	Sub 1	17.33	17.38	17.27	18.70				
	Sub 2	15.30	15.35	15.25	16.70				
	Sub 3	16.27	16.33	16.22	17.70				
	Sub 4	15.24	15.30	15.19	16.70				
	Sub 5	17.22	17.27	17.17	18.70				
DC-HSDPA	Sub 1	17.27	17.31	17.22	18.70				
	Sub 2	17.34	17.31	17.34	18.70				
	Sub 3	16.68	16.87	16.82	18.20				
	Sub 4	16.82	16.86	16.63	18.20				
HSPA+	16QAM	16.89	16.87	16.81	18.20				
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) ANT 4 Full Power& Level1&2&3&4&5&6&7&8				Band IV(dBm) ANT 3 Level1			
Tx Channel		1312	1413	1513	Tune-up	1312	1413	1513	Tune-u
Frequency(MHz)		1712.4	1732.6	1752.6	Limit	1712.4	1732.6	1752.6	p Limit
RMC	12.2kbps	23.03	23.02	22.97	24.20	16.12	15.98	16.00	17.20
HSDPA	Sub 1	22.98	23.01	22.93	23.20	15.09	14.96	14.98	16.20
	Sub 2	22.98	23.01	22.94	23.20	15.06	14.93	14.97	16.20
	Sub 3	22.50	22.54	22.45	22.70	14.54	14.40	14.44	15.70
	Sub 4	22.52	22.52	22.44	22.70	14.51	14.37	14.43	15.70
HSUPA	Sub 1	22.03	22.08	22.00	23.20	15.00	14.86	14.90	16.20
	Sub 2	20.07	20.08	20.01	21.20	12.99	12.85	12.89	14.20
	Sub 3	21.01	21.04	21.00	22.20	13.98	13.82	13.86	15.20
	Sub 4	20.10	20.04	20.03	21.20	12.97	12.81	12.83	14.20



WCDMA		Band IV(dBm) ANT 3 Level2&3&4				Band IV(dBm) ANT 3 Level5			
Tx Channel		1312	1413	1513	Tune-up Limit	1312	1413	1513	Tune-u p Limit
Frequency(MHz)		1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
HSPA+	16QAM	22.98	23.02	22.96	23.20	14.96	14.80	14.82	16.20
DC-HSDPA	Sub 1	22.81	22.98	22.82	23.20	15.05	14.88	14.95	16.20
	Sub 2	22.87	23.00	22.87	23.20	14.97	14.82	14.81	16.20
	Sub 3	22.38	22.49	22.32	22.70	14.47	14.33	14.24	15.70
	Sub 4	22.34	22.41	22.26	22.70	14.45	14.33	14.24	15.70
RMC	12.2kbps	14.48	14.53	14.58	15.70	19.80	19.71	19.87	21.20
HSDPA	Sub 1	13.47	13.52	13.57	14.70	19.62	19.59	19.65	20.20
	Sub 2	13.46	13.49	13.56	14.70	19.70	19.53	19.52	20.20
	Sub 3	12.95	12.96	13.05	14.20	19.28	19.28	19.02	19.70
	Sub 4	12.94	12.93	13.04	14.20	19.18	19.26	18.97	19.70
HSUPA	Sub 1	13.43	13.42	13.53	14.70	18.75	18.72	18.64	20.20
	Sub 2	11.40	11.41	11.52	12.70	16.64	16.68	16.63	18.20
	Sub 3	12.38	12.40	12.51	13.70	17.76	17.76	17.79	19.20
	Sub 4	11.37	11.39	11.50	12.70	16.78	16.76	16.58	18.20
	Sub 5	13.36	13.38	13.49	14.70	19.68	19.70	19.62	20.20
DC-HSDPA	Sub 1	13.36	13.38	13.49	14.70	19.53	19.53	19.53	20.20
	Sub 2	13.30	13.39	13.39	14.70	19.52	19.50	19.37	20.20
	Sub 3	13.34	13.33	13.56	14.20	19.24	19.22	18.82	19.70
	Sub 4	12.76	12.89	12.96	14.20	19.02	19.24	18.79	19.70
HSPA+	16QAM	12.95	13.03	13.14	14.20	19.18	19.28	19.14	19.70

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) ANT 3 Level6&7&8			
Tx Channel		1312	1413	1513	Tune-up Limit
Frequency(MHz)		1712.4	1732.6	1752.6	
RMC	12.2kbps	19.58	19.42	19.45	20.70
HSDPA	Sub 1	19.40	19.43	19.50	19.70
	Sub 2	19.47	19.55	19.47	19.70
	Sub 3	19.05	19.15	18.98	19.20
	Sub 4	18.94	18.98	18.91	19.20
HSUPA	Sub 1	18.46	18.53	18.57	19.70
	Sub 2	16.61	16.60	16.47	17.70
	Sub 3	17.43	17.46	17.58	18.70



	Sub 4	16.51	16.54	16.53	17.70
	Sub 5	19.56	19.46	19.41	19.70
DC-HSDPA	Sub 1	19.22	19.35	19.48	19.70
	Sub 2	19.44	19.41	19.33	19.70
	Sub 3	18.97	19.09	18.93	19.20
	Sub 4	18.87	18.92	18.89	19.20
HSPA+	16QAM	19.05	19.03	18.94	19.20

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 V(dBm) ANT 1 Full Power & Level1&2&3&4&5&6&7&8				Band V(dBm) ANT 0 Full Power & Level5&6&7&8			
Tx Channel		4132	4183	4233	Tune-up Limit	4132	4183	4233	Tune-up Limit
Frequency(MHz)		826.4	836.6	846.6		826.4	836.6	846.6	
RMC	12.2kbps	23.45	23.45	23.37	24.80	23.45	23.45	23.37	24.80
HSDPA	Sub 1	22.46	22.47	22.35	23.80	22.46	22.47	22.35	23.80
	Sub 2	22.45	22.46	22.33	23.80	22.45	22.46	22.33	23.80
	Sub 3	21.93	21.96	21.83	23.30	21.93	21.96	21.83	23.30
	Sub 4	21.91	21.97	21.82	23.30	21.91	21.97	21.82	23.30
HSUPA	Sub 1	22.56	22.50	22.12	23.80	22.56	22.50	22.12	23.80
	Sub 2	20.59	20.56	20.40	21.80	20.59	20.56	20.40	21.80
	Sub 3	20.56	20.51	20.47	22.80	20.56	20.51	20.47	22.80
	Sub 4	20.30	20.38	20.26	21.80	20.30	20.38	20.26	21.80
	Sub 5	22.51	22.57	22.41	23.80	22.51	22.57	22.41	23.80
DC-HSDPA	Sub 1	22.39	22.42	22.30	23.80	22.39	22.42	22.30	23.80
	Sub 2	22.34	22.41	22.20	23.80	22.34	22.41	22.20	23.80
	Sub 3	21.84	21.77	21.82	23.30	21.84	21.77	21.82	23.30
	Sub 4	21.81	21.80	21.66	23.30	21.81	21.80	21.66	23.30
HSPA+	16QAM	22.04	22.19	22.08	23.30	22.04	22.19	22.08	23.30
WCDMA		Band V(dBm) ANT 0 Level1				Band V(dBm) ANT 0 Level2&3&4			
Tx Channel		4132	4183	4233	Tune-up Limit	4132	4183	4233	Tune-up Limit
Frequency(MHz)		826.4	836.6	846.6		826.4	836.6	846.6	
RMC	12.2kbps	22.49	22.41	22.50	23.80	21.52	21.49	21.51	22.80
HSDPA	Sub 1	21.52	21.45	21.52	22.80	20.43	20.47	20.49	21.80
	Sub 2	21.55	21.42	21.56	22.80	20.47	20.47	20.45	21.80
	Sub 3	21.08	20.98	21.04	22.30	19.98	19.92	20.02	21.30
	Sub 4	21.01	20.94	21.02	22.30	19.97	19.89	19.99	21.30
HSUPA	Sub 1	21.64	21.45	21.56	22.80	20.57	20.65	20.45	21.80



	Sub 2	19.56	19.49	19.53	20.80	18.59	18.63	18.51	19.80
	Sub 3	19.70	19.62	19.66	21.80	18.49	18.55	18.51	20.80
	Sub 4	19.59	19.45	19.52	20.80	18.25	18.24	18.16	19.80
	Sub 5	21.60	21.58	21.64	22.80	20.44	20.38	20.42	21.80
DC-HSDPA	Sub 1	21.51	21.29	21.51	22.80	20.35	20.45	20.49	21.80
	Sub 2	21.51	21.31	21.37	22.80	20.42	20.41	20.44	21.80
	Sub 3	21.05	20.84	20.90	22.30	19.80	19.89	19.95	21.30
	Sub 4	20.85	20.93	20.98	22.30	19.86	19.70	19.93	21.30
HSPA+	16QAM	21.30	21.13	21.24	22.30	20.04	19.95	20.12	21.30

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

9.1.1 LTE Single Carrier

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 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (NRB)						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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

LTE FDD Band 2 ANT 3 Full Power				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	22.97	22.95	22.79	24.50
		1	2	23.02	23.01	22.87	24.50
		1	5	22.99	22.96	22.83	24.50
		3	0	23.00	22.95	22.81	23.50
		3	2	23.09	23.00	22.91	23.50
		3	3	23.03	22.94	22.86	23.50
		6	0	22.04	22.03	21.86	23.50
	16QAM	1	0	22.22	22.41	21.91	23.50
		1	2	22.29	22.46	21.97	23.50
		1	5	22.23	22.40	21.92	23.50
		3	0	22.11	22.18	22.08	22.50
		3	2	22.18	22.25	22.13	22.50
		3	3	22.18	22.16	22.06	22.50
		6	0	21.25	20.97	21.08	22.50
	64QAM	1	0	21.34	21.38	21.04	22.50
		1	2	21.43	21.45	21.08	22.50
		1	5	21.15	21.41	20.86	22.50
		3	0	21.03	21.23	21.22	21.50
		3	2	21.10	21.22	21.27	21.50
		3	3	21.15	21.25	21.21	21.50



	256QAM	6	0	20.26	20.11	20.05	21.50
		1	0	18.06	17.91	17.76	19.50
		1	2	17.84	17.85	17.71	19.50
		1	5	17.84	17.89	17.90	19.50
		3	0	18.16	18.01	17.75	19.50
		3	2	17.99	18.04	18.05	19.50
		3	3	18.19	17.90	17.93	19.50
		6	0	18.07	17.93	17.88	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.06	22.97	22.89	24.50
		1	7	23.15	23.11	22.99	24.50
		1	14	23.08	23.05	22.93	24.50
		8	0	22.12	22.04	21.94	23.50
		8	4	22.16	22.08	21.99	23.50
		8	7	22.13	22.12	21.93	23.50
		15	0	22.12	22.05	22.00	23.50
	16QAM	1	0	22.11	22.41	22.00	23.50
		1	7	22.15	22.61	22.00	23.50
		1	14	22.08	22.59	21.95	23.50
		8	0	21.21	21.13	21.01	22.50
		8	4	21.27	21.23	21.03	22.50
		8	7	21.24	21.18	20.98	22.50
		15	0	21.15	21.10	20.96	22.50
	64QAM	1	0	21.23	21.42	21.13	22.50
		1	7	21.12	21.74	21.08	22.50
		1	14	21.19	21.68	21.02	22.50
		8	0	20.32	20.04	20.06	21.50
		8	4	20.33	20.33	19.97	21.50
		8	7	20.25	20.30	19.94	21.50
		15	0	20.27	20.24	19.88	21.50
	256QAM	1	0	17.97	17.90	17.69	19.50
		1	7	18.05	17.93	17.71	19.50
		1	14	17.95	17.84	17.94	19.50
		8	0	18.18	17.96	17.99	19.50
		8	4	18.23	18.19	17.86	19.50
		8	7	17.94	18.15	17.86	19.50
		15	0	18.17	17.96	17.74	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.09	22.95	22.92	24.50
		1	13	23.17	23.13	22.93	24.50
		1	24	23.09	23.13	22.96	24.50



		12	0	22.15	22.03	21.97	23.50	
		12	6	22.17	22.09	22.01	23.50	
		12	13	22.14	22.12	22.00	23.50	
		25	0	22.16	22.05	22.00	23.50	
	16QAM	1	0	22.34	22.51	22.10	23.50	
		1	13	22.39	22.63	22.14	23.50	
		1	24	22.41	22.66	22.17	23.50	
		12	0	21.24	21.18	21.04	22.50	
		12	6	21.28	21.21	21.07	22.50	
		12	13	21.25	21.29	21.04	22.50	
		25	0	21.19	21.11	20.95	22.50	
	64QAM	1	0	21.41	21.47	21.22	22.50	
		1	13	21.41	21.53	21.21	22.50	
		1	24	21.44	21.60	21.24	22.50	
		12	0	20.25	20.17	19.96	21.50	
		12	6	20.30	20.19	20.21	21.50	
		12	13	20.36	20.26	20.09	21.50	
		25	0	20.11	20.21	19.96	21.50	
	256QAM	1	0	17.80	18.02	17.70	19.50	
		1	13	18.06	18.10	17.87	19.50	
		1	24	18.00	17.99	17.93	19.50	
		12	0	18.10	17.96	17.77	19.50	
		12	6	17.98	18.12	17.95	19.50	
		12	13	18.15	17.88	17.91	19.50	
		25	0	17.95	18.11	17.76	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18650/1855	18900/1880	19150/1905	
	10MHz	QPSK	1	0	23.06	22.97	22.93	24.50
1			25	23.03	23.00	22.90	24.50	
1			49	23.09	22.99	22.90	24.50	
25			0	22.17	22.05	21.87	23.50	
25			13	22.17	22.04	21.96	23.50	
25			25	22.16	22.10	22.04	23.50	
50			0	22.14	22.04	21.92	23.50	
16QAM		1	0	22.09	22.51	21.98	23.50	
		1	25	22.05	22.48	21.91	23.50	
		1	49	22.05	22.47	21.93	23.50	
		25	0	21.18	21.06	21.03	22.50	
		25	13	21.19	21.06	21.06	22.50	
		25	25	21.21	21.13	21.11	22.50	
		50	0	21.13	21.10	20.99	22.50	
64QAM		1	0	21.06	21.41	21.12	22.50	
	1	25	21.07	21.55	20.92	22.50		



		1	49	21.12	21.57	21.05	22.50	
		25	0	20.28	20.16	19.94	21.50	
		25	13	20.21	20.04	20.13	21.50	
		25	25	20.27	20.27	20.21	21.50	
		50	0	20.18	20.23	20.00	21.50	
	256QAM	1	0	18.01	17.83	17.88	19.50	
		1	25	17.93	18.04	17.83	19.50	
		1	49	17.94	17.96	17.76	19.50	
		25	0	18.13	18.03	17.95	19.50	
		25	13	18.14	18.20	17.89	19.50	
		25	25	18.12	18.12	17.96	19.50	
		50	0	18.19	18.09	18.13	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18675/1857.5	18900/1880	19125/1902.5		
15MHz	QPSK	1	0	23.03	23.01	22.96	24.50	
		1	38	23.04	23.01	22.87	24.50	
		1	74	23.03	22.93	22.87	24.50	
		36	0	22.06	22.06	21.94	23.50	
		36	18	22.18	22.06	22.07	23.50	
		36	39	22.16	22.10	22.01	23.50	
		75	0	22.15	22.04	21.98	23.50	
	16QAM	1	0	21.98	22.51	22.35	23.50	
		1	38	22.08	22.41	22.44	23.50	
		1	74	22.05	22.37	22.47	23.50	
		36	0	21.11	21.12	20.98	22.50	
		36	18	21.20	21.13	21.02	22.50	
		36	39	21.16	21.16	21.04	22.50	
		75	0	21.16	21.09	20.95	22.50	
	64QAM	1	0	20.95	21.49	21.47	22.50	
		1	38	21.11	21.42	21.47	22.50	
		1	74	21.15	21.46	21.59	22.50	
		36	0	20.22	20.15	19.99	21.50	
		36	18	20.27	20.06	20.13	21.50	
		36	39	20.13	20.18	19.95	21.50	
		75	0	20.22	20.00	20.04	21.50	
	256QAM	1	0	18.08	17.89	17.87	19.50	
		1	38	18.01	17.86	17.70	19.50	
		1	74	17.96	18.02	17.75	19.50	
		36	0	18.18	18.19	18.06	19.50	
		36	18	18.22	18.08	17.83	19.50	
		36	39	18.07	18.10	18.08	19.50	
		75	0	18.04	18.01	17.89	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up



				18700/1860	18900/1880	19100/1900	Limit
20MHz	QPSK	1	0	23.06	23.03	22.89	24.50
		1	50	23.00	23.01	22.82	24.50
		1	99	23.01	22.98	22.85	24.50
		50	0	22.06	22.08	21.99	23.50
		50	25	22.15	22.05	22.08	23.50
		50	50	22.13	22.12	22.01	23.50
		100	0	22.15	22.04	21.97	23.50
	16QAM	1	0	22.64	22.54	22.41	23.50
		1	50	22.69	22.51	22.31	23.50
		1	99	22.70	22.53	22.30	23.50
		50	0	21.12	21.12	20.98	22.50
		50	25	21.18	21.07	21.04	22.50
		50	50	21.20	21.16	21.02	22.50
		100	0	21.19	21.07	21.00	22.50
	64QAM	1	0	21.66	21.59	21.47	22.50
		1	50	21.78	21.66	21.23	22.50
		1	99	21.66	21.66	21.33	22.50
		50	0	20.03	20.09	19.91	21.50
		50	25	20.22	20.07	20.15	21.50
		50	50	20.29	20.25	19.97	21.50
		100	0	20.31	20.16	20.02	21.50
	256QAM	1	0	17.89	18.10	17.85	19.50
		1	50	18.01	18.03	17.71	19.50
		1	99	17.92	18.03	17.86	19.50
		50	0	18.03	18.23	18.05	19.50
		50	25	18.19	18.19	17.84	19.50
		50	50	18.14	18.14	17.96	19.50
		100	0	18.19	18.22	18.02	19.50

LTE FDD Band 2 ANT 3 Level1				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	15.98	15.86	15.89	17.50
		1	2	15.82	15.78	15.85	17.50
		1	5	16.01	15.98	15.85	17.50
		3	0	16.08	16.07	15.98	17.50
		3	2	16.05	16.03	16.00	17.50
		3	3	15.98	15.93	15.97	17.50
		6	0	15.82	15.86	15.78	17.50
	16QAM	1	0	16.06	16.02	16.15	17.50
		1	2	16.00	15.97	15.94	17.50



		1	5	15.79	15.81	15.80	17.50	
		3	0	16.01	15.92	16.01	17.50	
		3	2	16.00	16.03	16.04	17.50	
		3	3	16.08	16.04	16.06	17.50	
		6	0	16.11	16.03	16.10	17.50	
	64QAM	1	0	15.92	15.82	15.85	17.50	
		1	2	16.05	16.05	16.08	17.50	
		1	5	15.85	15.86	15.82	17.50	
		3	0	16.08	16.17	16.12	17.50	
		3	2	16.17	16.01	16.00	17.50	
		3	3	16.16	16.02	16.10	17.50	
		6	0	16.07	15.92	16.01	17.50	
	256QAM	1	0	15.95	15.83	15.84	17.50	
		1	2	15.79	15.69	15.81	17.50	
		1	5	15.91	15.94	15.78	17.50	
		3	0	15.99	16.07	15.94	17.50	
		3	2	15.95	16.02	15.93	17.50	
		3	3	15.89	15.88	15.89	17.50	
		6	0	15.79	15.78	15.77	17.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	16.01	15.95	15.85	17.50	
		1	7	16.04	15.89	15.89	17.50	
		1	14	15.98	15.99	15.99	17.50	
		8	0	16.04	16.02	16.07	17.50	
		8	4	16.08	16.11	16.12	17.50	
		8	7	16.02	15.99	15.98	17.50	
		15	0	15.90	15.86	15.90	17.50	
	16QAM	1	0	16.07	15.94	15.94	17.50	
		1	7	16.03	16.03	16.02	17.50	
		1	14	16.08	16.05	16.01	17.50	
		8	0	15.87	15.83	15.93	17.50	
		8	4	16.15	16.07	16.02	17.50	
		8	7	16.02	16.00	16.00	17.50	
		15	0	16.11	15.95	15.97	17.50	
	64QAM	1	0	16.01	15.94	15.92	17.50	
		1	7	16.06	15.93	15.96	17.50	
		1	14	15.93	16.01	15.87	17.50	
		8	0	16.00	15.88	15.99	17.50	
		8	4	15.90	15.92	15.79	17.50	
		8	7	15.92	15.97	15.94	17.50	
		15	0	15.88	15.90	15.87	17.50	
256QAM	1	0	15.97	15.91	15.77	17.50		



		1	7	15.99	15.82	15.87	17.50
		1	14	15.90	15.92	15.88	17.50
		8	0	16.00	15.93	16.04	17.50
		8	4	16.02	16.11	16.06	17.50
		8	7	15.95	15.94	15.88	17.50
		15	0	15.82	15.75	15.82	17.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	15.90	15.85	15.90	17.50
		1	13	16.01	15.95	15.85	17.50
		1	24	15.79	15.79	15.80	17.50
		12	0	16.12	16.09	16.01	17.50
		12	6	16.10	16.07	16.11	17.50
		12	13	15.85	15.79	15.80	17.50
		25	0	16.04	15.95	15.98	17.50
	16QAM	1	0	16.05	15.92	15.93	17.50
		1	13	16.14	15.98	16.02	17.50
		1	24	16.02	15.85	15.92	17.50
		12	0	15.94	16.02	15.89	17.50
		12	6	16.16	15.97	16.08	17.50
		12	13	15.81	15.75	15.79	17.50
		25	0	15.93	15.96	15.94	17.50
	64QAM	1	0	16.03	15.90	15.98	17.50
		1	13	15.96	15.85	15.91	17.50
		1	24	15.86	15.79	15.81	17.50
		12	0	16.20	16.09	16.03	17.50
		12	6	15.97	15.98	15.95	17.50
		12	13	16.07	16.08	16.05	17.50
		25	0	15.97	15.94	15.97	17.50
	256QAM	1	0	15.90	15.78	15.87	17.50
		1	13	15.99	15.84	15.77	17.50
		1	24	15.75	15.78	15.77	17.50
		12	0	16.05	16.09	15.92	17.50
		12	6	16.04	16.01	16.05	17.50
		12	13	15.83	15.68	15.76	17.50
		25	0	15.98	15.89	15.88	17.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	15.94	15.95	15.92	17.50
		1	25	16.01	15.99	15.92	17.50
		1	49	15.97	16.00	15.88	17.50
		25	0	16.16	16.01	16.05	17.50
		25	13	16.01	15.95	15.92	17.50



		25	25	16.04	15.92	16.00	17.50	
		50	0	16.09	15.97	16.04	17.50	
	16QAM	1	0	15.93	15.84	15.88	17.50	
		1	25	15.91	15.85	15.90	17.50	
		1	49	16.01	16.04	15.96	17.50	
		25	0	15.85	15.89	15.81	17.50	
		25	13	15.95	15.88	15.78	17.50	
		25	25	16.08	16.06	16.06	17.50	
		50	0	15.99	15.95	15.88	17.50	
		64QAM	1	0	16.00	15.97	15.98	17.50
	1		25	16.10	16.15	16.13	17.50	
	1		49	16.12	16.09	16.12	17.50	
	25		0	15.93	15.84	15.81	17.50	
	25		13	15.92	15.98	15.98	17.50	
	25		25	16.08	15.97	16.03	17.50	
	50		0	16.14	16.17	16.11	17.50	
	256QAM	1	0	15.91	15.87	15.91	17.50	
		1	25	15.91	15.89	15.85	17.50	
		1	49	15.87	15.93	15.85	17.50	
		25	0	16.14	15.93	16.02	17.50	
		25	13	15.92	15.91	15.83	17.50	
		25	25	15.95	15.82	15.89	17.50	
		50	0	16.09	15.91	16.04	17.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	16.17	16.03	15.98	17.50	
		1	38	15.90	15.80	15.84	17.50	
		1	74	15.95	15.81	15.78	17.50	
		36	0	15.92	15.85	15.75	17.50	
		36	18	15.85	15.87	15.84	17.50	
		36	39	15.99	16.09	16.04	17.50	
		75	0	16.17	16.09	16.12	17.50	
	16QAM	1	0	16.02	16.07	16.10	17.50	
		1	38	16.02	15.96	15.85	17.50	
		1	74	15.99	15.97	15.93	17.50	
		36	0	15.92	15.90	15.83	17.50	
		36	18	15.82	15.84	15.78	17.50	
		36	39	16.02	15.95	15.99	17.50	
		75	0	15.80	15.83	15.81	17.50	
	64QAM	1	0	16.00	15.93	16.07	17.50	
		1	38	16.01	16.02	15.97	17.50	
		1	74	16.03	15.99	15.85	17.50	
		36	0	15.92	15.91	16.00	17.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18700/1860	18900/1880	19100/1900		
20MHz	256QAM	36	18	16.12	16.04	15.97	17.50	
		36	39	16.07	15.93	16.07	17.50	
		75	0	15.95	15.90	15.99	17.50	
		1	0	16.07	16.02	15.95	17.50	
		1	38	15.86	15.69	15.81	17.50	
		1	74	15.93	15.72	15.70	17.50	
		36	0	15.82	15.80	15.71	17.50	
		36	18	15.78	15.85	15.78	17.50	
		36	39	15.88	15.99	16.00	17.50	
	75	0	16.16	16.01	16.11	17.50		
	20MHz	QPSK	1	0	15.98	16.01	16.13	17.50
			1	50	15.93	15.88	15.91	17.50
			1	99	16.27	16.10	16.12	17.50
			50	0	15.93	15.84	15.94	17.50
			50	25	15.87	15.80	15.86	17.50
			50	50	16.08	16.03	16.05	17.50
			100	0	16.20	16.07	16.04	17.50
		16QAM	1	0	16.11	16.14	16.01	17.50
1			50	15.99	15.80	15.93	17.50	
1			99	16.00	16.04	15.91	17.50	
50			0	16.03	16.05	16.04	17.50	
50			25	16.17	16.02	16.00	17.50	
50			50	15.99	15.98	15.92	17.50	
100			0	16.02	15.92	15.98	17.50	
64QAM		1	0	16.09	15.95	15.98	17.50	
		1	50	16.17	16.07	16.06	17.50	
		1	99	15.95	15.81	15.85	17.50	
		50	0	16.19	16.07	16.15	17.50	
		50	25	15.99	16.00	15.93	17.50	
		50	50	16.12	16.03	16.14	17.50	
		100	0	15.94	15.84	15.83	17.50	
256QAM		1	0	15.97	15.98	16.11	17.50	
		1	50	15.88	15.84	15.88	17.50	
		1	99	16.17	16.01	16.03	17.50	
		50	0	15.93	15.75	15.88	17.50	
		50	25	15.80	15.72	15.84	17.50	
		50	50	16.03	16.00	16.05	17.50	
	100	0	16.19	16.03	16.01	17.50		



LTE FDD Band 2 ANT 3 Level2&3&4				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	15.18	15.02	15.02	16.50
		1	2	15.03	15.04	14.97	16.50
		1	5	15.10	15.06	15.05	16.50
		3	0	14.95	14.95	14.90	16.50
		3	2	15.08	15.06	15.03	16.50
		3	3	14.87	14.86	14.89	16.50
		6	0	15.08	14.99	14.98	16.50
	16QAM	1	0	15.09	14.98	15.03	16.50
		1	2	14.97	14.99	14.98	16.50
		1	5	15.08	14.97	15.09	16.50
		3	0	15.08	15.03	15.04	16.50
		3	2	14.96	14.78	14.80	16.50
		3	3	15.07	15.00	15.10	16.50
		6	0	15.03	14.91	14.89	16.50
	64QAM	1	0	14.91	14.93	14.86	16.50
		1	2	14.93	14.81	14.87	16.50
		1	5	14.98	15.03	14.91	16.50
		3	0	15.04	14.93	14.91	16.50
		3	2	14.94	14.86	14.77	16.50
		3	3	15.03	15.05	14.97	16.50
		6	0	15.18	15.03	15.05	16.50
	256QAM	1	0	15.18	15.02	14.99	16.50
		1	2	14.98	14.97	14.90	16.50
		1	5	15.03	15.03	15.05	16.50
		3	0	14.87	14.94	14.82	16.50
		3	2	15.04	15.04	14.99	16.50
		3	3	14.82	14.76	14.84	16.50
		6	0	15.07	14.94	14.96	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
3MHz	QPSK	1	0	14.97	14.99	14.96	16.50
		1	7	14.94	14.95	14.88	16.50
		1	14	15.10	15.08	15.06	16.50
		8	0	14.89	14.79	14.78	16.50
		8	4	14.98	14.86	14.78	16.50
		8	7	14.92	14.86	15.00	16.50
		15	0	15.07	14.95	15.02	16.50
	16QAM	1	0	14.96	14.90	14.99	16.50
		1	7	14.96	15.00	14.97	16.50



		1	14	14.94	14.90	14.96	16.50	
		8	0	15.04	14.99	14.95	16.50	
		8	4	15.19	15.06	15.13	16.50	
		8	7	15.15	15.05	15.10	16.50	
		15	0	15.00	14.98	15.03	16.50	
	64QAM	1	0	15.00	15.02	14.93	16.50	
		1	7	14.92	14.89	14.84	16.50	
		1	14	15.19	15.15	15.09	16.50	
		8	0	14.97	14.88	14.87	16.50	
		8	4	14.90	14.87	14.88	16.50	
		8	7	15.07	15.07	14.99	16.50	
		15	0	14.99	14.80	14.80	16.50	
	256QAM	1	0	14.88	14.89	14.87	16.50	
		1	7	14.84	14.92	14.81	16.50	
		1	14	15.02	15.02	14.97	16.50	
		8	0	14.87	14.74	14.69	16.50	
		8	4	14.88	14.79	14.74	16.50	
		8	7	14.84	14.84	14.99	16.50	
		15	0	15.03	14.90	15.01	16.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	14.88	14.96	14.93	16.50	
		1	13	15.10	15.14	15.06	16.50	
		1	24	14.89	14.82	14.88	16.50	
		12	0	14.86	14.88	14.87	16.50	
		12	6	15.01	15.02	15.01	16.50	
		12	13	15.06	14.99	14.94	16.50	
		25	0	15.10	15.08	15.06	16.50	
	16QAM	1	0	15.07	15.05	15.05	16.50	
		1	13	15.18	15.05	15.11	16.50	
		1	24	15.08	15.03	15.03	16.50	
		12	0	15.11	14.93	14.92	16.50	
		12	6	15.08	15.08	15.11	16.50	
		12	13	15.08	15.06	15.05	16.50	
		25	0	15.07	14.99	14.92	16.50	
	64QAM	1	0	14.86	14.82	14.87	16.50	
		1	13	14.97	14.85	14.85	16.50	
		1	24	14.92	14.87	14.91	16.50	
		12	0	14.87	14.76	14.78	16.50	
		12	6	14.81	14.89	14.86	16.50	
		12	13	14.92	14.79	14.92	16.50	
		25	0	15.12	15.07	15.10	16.50	
256QAM	1	0	14.80	14.92	14.92	16.50		



		1	13	15.09	15.11	15.04	16.50
		1	24	14.88	14.71	14.88	16.50
		12	0	14.77	14.84	14.84	16.50
		12	6	14.93	14.92	14.96	16.50
		12	13	14.98	14.95	14.94	16.50
		25	0	15.07	15.03	15.03	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	15.17	15.09	15.04	16.50
		1	25	15.06	15.03	15.07	16.50
		1	49	14.95	14.94	14.87	16.50
		25	0	15.13	15.03	15.03	16.50
		25	13	15.05	15.07	14.92	16.50
		25	25	14.89	14.84	14.80	16.50
		50	0	15.09	15.02	15.06	16.50
	16QAM	1	0	14.91	14.85	14.97	16.50
		1	25	15.18	15.16	15.16	16.50
		1	49	14.99	15.00	14.97	16.50
		25	0	15.06	15.09	15.05	16.50
		25	13	14.99	14.94	15.02	16.50
		25	25	14.87	14.84	14.90	16.50
		50	0	14.93	14.91	14.91	16.50
	64QAM	1	0	14.97	14.86	14.93	16.50
		1	25	15.10	15.00	14.98	16.50
		1	49	15.11	14.95	15.07	16.50
		25	0	15.17	15.03	15.03	16.50
		25	13	14.96	14.89	14.97	16.50
		25	25	15.10	15.07	15.17	16.50
		50	0	15.06	14.94	14.93	16.50
	256QAM	1	0	15.06	15.01	15.03	16.50
		1	25	14.99	15.02	15.03	16.50
		1	49	14.87	14.86	14.80	16.50
		25	0	15.04	15.00	14.92	16.50
		25	13	14.98	15.02	14.84	16.50
		25	25	14.84	14.77	14.71	16.50
		50	0	15.04	14.98	15.03	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	14.95	14.99	14.91	16.50
		1	38	14.98	14.98	14.95	16.50
		1	74	15.12	14.97	15.07	16.50
		36	0	14.86	14.94	14.89	16.50
		36	18	14.94	14.91	14.86	16.50



		36	39	15.06	15.06	15.12	16.50	
		75	0	14.93	14.89	14.87	16.50	
	16QAM	1	0	14.94	14.94	14.91	16.50	
		1	38	15.18	15.07	15.09	16.50	
		1	74	15.02	14.93	14.98	16.50	
		36	0	15.05	15.05	15.04	16.50	
		36	18	15.19	15.07	15.09	16.50	
		36	39	15.01	14.93	14.97	16.50	
		75	0	14.96	14.98	14.90	16.50	
		64QAM	1	0	15.06	15.03	15.12	16.50
	1		38	14.87	14.91	14.78	16.50	
	1		74	15.23	15.06	15.15	16.50	
	36		0	15.12	15.18	15.17	16.50	
	36		18	14.87	14.77	14.81	16.50	
	36		39	15.06	14.98	15.02	16.50	
	75		0	14.93	14.87	14.87	16.50	
	256QAM		1	0	14.86	14.91	14.87	16.50
		1	38	14.94	14.96	14.90	16.50	
		1	74	15.03	14.89	15.00	16.50	
		36	0	14.85	14.93	14.86	16.50	
		36	18	14.92	14.81	14.84	16.50	
		36	39	15.00	14.98	15.10	16.50	
		75	0	14.88	14.85	14.81	16.50	
		Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
					18700/1860	18900/1880	19100/1900	
	20MHz	QPSK	1	0	15.29	15.11	15.20	16.50
			1	50	15.00	15.05	15.07	16.50
			1	99	15.12	15.05	15.06	16.50
50			0	15.06	14.95	14.87	16.50	
50			25	15.06	15.08	15.14	16.50	
50			50	15.09	14.93	14.92	16.50	
100			0	15.09	15.08	14.95	16.50	
16QAM		1	0	15.19	15.10	15.09	16.50	
		1	50	15.14	15.14	15.12	16.50	
		1	99	14.84	14.77	14.79	16.50	
		50	0	15.05	15.04	15.11	16.50	
		50	25	14.91	14.84	14.91	16.50	
		50	50	14.90	14.83	14.81	16.50	
		100	0	15.02	14.86	14.89	16.50	
64QAM		1	0	15.13	15.04	15.03	16.50	
		1	50	15.02	14.97	14.93	16.50	
		1	99	14.88	14.92	14.86	16.50	
		50	0	14.98	14.94	14.94	16.50	



		50	25	15.20	15.12	15.04	16.50
		50	50	14.84	14.77	14.80	16.50
		100	0	14.88	14.87	14.83	16.50
	256QAM	1	0	15.28	15.01	15.13	16.50
		1	50	14.92	14.94	15.02	16.50
		1	99	15.12	14.99	14.98	16.50
		50	0	15.02	14.92	14.82	16.50
		50	25	14.96	15.04	15.12	16.50
		50	50	15.07	14.89	14.85	16.50
100	0	14.99	15.01	14.90	16.50		

LTE FDD Band 2 ANT 3 Level5&6&7&8				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	18.42	18.37	18.28	20.00
		1	2	18.53	18.48	18.48	20.00
		1	5	18.47	18.44	18.40	20.00
		3	0	18.35	18.28	18.33	20.00
		3	2	18.59	18.54	18.63	20.00
		3	3	18.43	18.41	18.47	20.00
		6	0	18.57	18.61	18.59	20.00
	16QAM	1	0	18.32	18.34	18.31	20.00
		1	2	18.66	18.50	18.63	20.00
		1	5	18.46	18.44	18.33	20.00
		3	0	18.58	18.51	18.56	20.00
		3	2	18.46	18.40	18.39	20.00
		3	3	18.42	18.37	18.38	20.00
		6	0	18.61	18.53	18.58	20.00
	64QAM	1	0	18.66	18.53	18.61	20.00
		1	2	18.39	18.26	18.32	20.00
		1	5	18.50	18.47	18.36	20.00
		3	0	18.39	18.44	18.39	20.00
		3	2	18.45	18.50	18.45	20.00
		3	3	18.65	18.53	18.54	20.00
		6	0	18.66	18.62	18.49	20.00
	256QAM	1	0	17.96	18.00	17.99	19.50
		1	2	17.94	18.03	17.89	19.50
		1	5	18.02	18.06	18.00	19.50
		3	0	17.93	17.89	18.03	19.50
		3	2	18.05	18.01	17.90	19.50
		3	3	18.00	17.93	18.00	19.50
		6	0	18.05	17.91	17.91	19.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit		
				18615/1851.5	18900/1880	19185/1908.5			
3MHz	QPSK	1	0	18.65	18.52	18.47	20.00		
		1	7	18.42	18.42	18.43	20.00		
		1	14	18.42	18.33	18.43	20.00		
		8	0	18.42	18.46	18.35	20.00		
		8	4	18.59	18.50	18.50	20.00		
		8	7	18.41	18.45	18.44	20.00		
		15	0	18.51	18.51	18.50	20.00		
	16QAM	1	0	18.63	18.50	18.57	20.00		
		1	7	18.42	18.43	18.45	20.00		
		1	14	18.57	18.37	18.50	20.00		
		8	0	18.63	18.58	18.67	20.00		
		8	4	18.58	18.62	18.59	20.00		
		8	7	18.56	18.44	18.42	20.00		
		15	0	18.58	18.48	18.43	20.00		
	64QAM	1	0	18.65	18.47	18.61	20.00		
		1	7	18.37	18.37	18.40	20.00		
		1	14	18.34	18.40	18.33	20.00		
		8	0	18.38	18.43	18.45	20.00		
		8	4	18.51	18.58	18.53	20.00		
		8	7	18.43	18.43	18.41	20.00		
		15	0	18.63	18.65	18.60	20.00		
256QAM	1	0	17.90	18.10	17.96	19.50			
	1	7	18.04	17.90	18.03	19.50			
	1	14	17.96	17.93	18.09	19.50			
	8	0	18.04	18.09	18.09	19.50			
	8	4	18.07	17.94	17.92	19.50			
	8	7	18.05	17.99	18.01	19.50			
	15	0	17.90	17.97	18.05	19.50			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit		
5MHz	QPSK	1	0	18.64	18.50	18.46	20.00		
		1	13	18.44	18.31	18.38	20.00		
		1	24	18.56	18.55	18.47	20.00		
		12	0	18.44	18.41	18.32	20.00		
		12	6	18.52	18.40	18.54	20.00		
		12	13	18.44	18.30	18.30	20.00		
		25	0	18.45	18.55	18.40	20.00		
	16QAM	1	0	18.39	18.39	18.42	20.00		
		1	13	18.65	18.64	18.60	20.00		
		1	24	18.40	18.35	18.34	20.00		
		12	0	18.65	18.60	18.57	20.00		
						18625/1852.5	18900/1880	19175/1907.5	



		12	6	18.38	18.36	18.24	20.00
		12	13	18.57	18.53	18.54	20.00
		25	0	18.49	18.53	18.47	20.00
	64QAM	1	0	18.61	18.58	18.59	20.00
		1	13	18.60	18.55	18.42	20.00
		1	24	18.56	18.48	18.52	20.00
		12	0	18.33	18.30	18.34	20.00
		12	6	18.62	18.45	18.47	20.00
		12	13	18.56	18.48	18.50	20.00
		25	0	18.60	18.66	18.64	20.00
	256QAM	1	0	18.01	17.91	17.92	19.50
		1	13	17.91	18.00	18.04	19.50
		1	24	18.05	18.07	17.95	19.50
		12	0	18.01	18.06	18.09	19.50
12		6	18.01	17.99	18.02	19.50	
12		13	17.92	17.94	17.95	19.50	
25		0	18.08	18.00	17.93	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	18.44	18.29	18.28	20.00
		1	25	18.63	18.57	18.52	20.00
		1	49	18.55	18.49	18.60	20.00
		25	0	18.66	18.60	18.58	20.00
		25	13	18.65	18.56	18.66	20.00
		25	25	18.49	18.53	18.57	20.00
		50	0	18.42	18.35	18.34	20.00
	16QAM	1	0	18.54	18.47	18.54	20.00
		1	25	18.40	18.39	18.32	20.00
		1	49	18.39	18.28	18.32	20.00
		25	0	18.61	18.55	18.50	20.00
		25	13	18.51	18.43	18.47	20.00
		25	25	18.46	18.31	18.42	20.00
		50	0	18.54	18.46	18.41	20.00
	64QAM	1	0	18.54	18.46	18.51	20.00
		1	25	18.37	18.32	18.41	20.00
		1	49	18.40	18.33	18.35	20.00
		25	0	18.60	18.62	18.61	20.00
		25	13	18.53	18.44	18.44	20.00
		25	25	18.37	18.38	18.44	20.00
		50	0	18.49	18.47	18.47	20.00
	256QAM	1	0	17.94	17.92	17.96	19.50
		1	25	17.96	18.06	17.89	19.50
		1	49	17.98	18.04	18.05	19.50



		25	0	18.03	17.94	18.07	19.50
		25	13	17.93	17.90	18.09	19.50
		25	25	18.02	18.08	18.03	19.50
		50	0	17.96	18.10	17.96	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	18.36	18.37	18.29	20.00
		1	38	18.44	18.39	18.34	20.00
		1	74	18.43	18.36	18.38	20.00
		36	0	18.62	18.63	18.60	20.00
		36	18	18.31	18.38	18.30	20.00
		36	39	18.37	18.33	18.39	20.00
		75	0	18.48	18.42	18.41	20.00
	16QAM	1	0	18.59	18.55	18.65	20.00
		1	38	18.65	18.60	18.48	20.00
		1	74	18.42	18.41	18.44	20.00
		36	0	18.48	18.46	18.41	20.00
		36	18	18.46	18.55	18.53	20.00
		36	39	18.46	18.37	18.45	20.00
		75	0	18.64	18.55	18.52	20.00
	64QAM	1	0	18.61	18.64	18.61	20.00
		1	38	18.56	18.62	18.60	20.00
		1	74	18.30	18.35	18.38	20.00
		36	0	18.42	18.48	18.39	20.00
		36	18	18.50	18.44	18.53	20.00
		36	39	18.53	18.49	18.57	20.00
		75	0	18.49	18.31	18.37	20.00
	256QAM	1	0	18.00	18.03	17.98	19.50
		1	38	17.93	18.03	18.07	19.50
		1	74	18.02	17.97	17.89	19.50
		36	0	18.03	17.92	18.06	19.50
		36	18	17.97	17.92	17.96	19.50
		36	39	17.90	18.04	18.01	19.50
		75	0	18.07	18.06	18.06	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	18.80	18.58	18.72	20.00
		1	50	18.74	18.57	18.49	20.00
		1	99	18.64	18.50	18.49	20.00
		50	0	18.54	18.36	18.45	20.00
		50	25	18.71	18.58	18.55	20.00
		50	50	18.54	18.45	18.42	20.00
		100	0	18.60	18.47	18.45	20.00



	16QAM	1	0	18.63	18.58	18.53	20.00
		1	50	18.55	18.48	18.47	20.00
		1	99	18.41	18.44	18.45	20.00
		50	0	18.40	18.37	18.36	20.00
		50	25	18.48	18.40	18.37	20.00
		50	50	18.30	18.31	18.34	20.00
		100	0	18.62	18.45	18.56	20.00
	64QAM	1	0	18.65	18.47	18.52	20.00
		1	50	18.52	18.41	18.51	20.00
		1	99	18.48	18.41	18.37	20.00
		50	0	18.70	18.62	18.66	20.00
		50	25	18.59	18.41	18.50	20.00
		50	50	18.43	18.36	18.40	20.00
		100	0	18.62	18.51	18.53	20.00
	256QAM	1	0	17.98	18.06	17.89	19.50
		1	50	18.00	17.97	18.01	19.50
		1	99	18.09	17.90	18.00	19.50
		50	0	18.03	17.96	17.92	19.50
		50	25	18.00	17.95	17.92	19.50
		50	50	18.06	17.97	17.93	19.50
		100	0	17.97	18.01	18.04	19.50

LTE FDD Band 2 ANT 4 Full Power&Level 1&2&3&4				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	22.97	22.95	22.79	24.50
		1	2	23.02	23.01	22.87	24.50
		1	5	22.99	22.96	22.83	24.50
		3	0	23.00	22.95	22.81	23.50
		3	2	23.09	23.00	22.91	23.50
		3	3	23.03	22.94	22.86	23.50
		6	0	22.04	22.03	21.86	23.50
	16QAM	1	0	22.22	22.41	21.91	23.50
		1	2	22.29	22.46	21.97	23.50
		1	5	22.23	22.40	21.92	23.50
		3	0	22.11	22.18	22.08	22.50
		3	2	22.18	22.25	22.13	22.50
		3	3	22.18	22.16	22.06	22.50
		6	0	21.25	20.97	21.08	22.50
	64QAM	1	0	21.34	21.38	21.04	22.50
		1	2	21.43	21.45	21.08	22.50
		1	5	21.15	21.41	20.86	22.50



		3	0	21.03	21.23	21.22	21.50	
		3	2	21.10	21.22	21.27	21.50	
		3	3	21.15	21.25	21.21	21.50	
		6	0	20.26	20.11	20.05	21.50	
	256QAM	1	0	18.06	17.91	17.76	19.50	
		1	2	17.84	17.85	17.71	19.50	
		1	5	17.84	17.89	17.90	19.50	
		3	0	18.16	18.01	17.75	19.50	
		3	2	17.99	18.04	18.05	19.50	
		3	3	18.19	17.90	17.93	19.50	
6	0	18.07	17.93	17.88	19.50			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18615/1851.5	18900/1880	19185/1908.5		
3MHz	QPSK	1	0	23.06	22.97	22.89	24.50	
		1	7	23.15	23.11	22.99	24.50	
		1	14	23.08	23.05	22.93	24.50	
		8	0	22.12	22.04	21.94	23.50	
		8	4	22.16	22.08	21.99	23.50	
		8	7	22.13	22.12	21.93	23.50	
		15	0	22.12	22.05	22.00	23.50	
	16QAM	1	0	22.11	22.41	22.00	23.50	
		1	7	22.15	22.61	22.00	23.50	
		1	14	22.08	22.59	21.95	23.50	
		8	0	21.21	21.13	21.01	22.50	
		8	4	21.27	21.23	21.03	22.50	
		8	7	21.24	21.18	20.98	22.50	
		15	0	21.15	21.10	20.96	22.50	
	64QAM	1	0	21.23	21.42	21.13	22.50	
		1	7	21.12	21.74	21.08	22.50	
		1	14	21.19	21.68	21.02	22.50	
		8	0	20.32	20.04	20.06	21.50	
		8	4	20.33	20.33	19.97	21.50	
		8	7	20.25	20.30	19.94	21.50	
		15	0	20.27	20.24	19.88	21.50	
	256QAM	1	0	17.97	17.90	17.69	19.50	
		1	7	18.05	17.93	17.71	19.50	
		1	14	17.95	17.84	17.94	19.50	
		8	0	18.18	17.96	17.99	19.50	
		8	4	18.23	18.19	17.86	19.50	
		8	7	17.94	18.15	17.86	19.50	
		15	0	18.17	17.96	17.74	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18625/1852.5	18900/1880	19175/1907.5	



5MHz	QPSK	1	0	23.09	22.95	22.92	24.50
		1	13	23.17	23.13	22.93	24.50
		1	24	23.09	23.13	22.96	24.50
		12	0	22.15	22.03	21.97	23.50
		12	6	22.17	22.09	22.01	23.50
		12	13	22.14	22.12	22.00	23.50
		25	0	22.16	22.05	22.00	23.50
	16QAM	1	0	22.34	22.51	22.10	23.50
		1	13	22.39	22.63	22.14	23.50
		1	24	22.41	22.66	22.17	23.50
		12	0	21.24	21.18	21.04	22.50
		12	6	21.28	21.21	21.07	22.50
		12	13	21.25	21.29	21.04	22.50
		25	0	21.19	21.11	20.95	22.50
	64QAM	1	0	21.41	21.47	21.22	22.50
		1	13	21.41	21.53	21.21	22.50
		1	24	21.44	21.60	21.24	22.50
		12	0	20.25	20.17	19.96	21.50
		12	6	20.30	20.19	20.21	21.50
		12	13	20.36	20.26	20.09	21.50
		25	0	20.11	20.21	19.96	21.50
	256QAM	1	0	17.80	18.02	17.70	19.50
		1	13	18.06	18.10	17.87	19.50
		1	24	18.00	17.99	17.93	19.50
		12	0	18.10	17.96	17.77	19.50
		12	6	17.98	18.12	17.95	19.50
		12	13	18.15	17.88	17.91	19.50
		25	0	17.95	18.11	17.76	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	23.06	22.97	22.93	24.50
		1	25	23.03	23.00	22.90	24.50
		1	49	23.09	22.99	22.90	24.50
		25	0	22.17	22.05	21.87	23.50
		25	13	22.17	22.04	21.96	23.50
		25	25	22.16	22.10	22.04	23.50
		50	0	22.14	22.04	21.92	23.50
	16QAM	1	0	22.09	22.51	21.98	23.50
		1	25	22.05	22.48	21.91	23.50
		1	49	22.05	22.47	21.93	23.50
		25	0	21.18	21.06	21.03	22.50
		25	13	21.19	21.06	21.06	22.50
		25	25	21.21	21.13	21.11	22.50



	64QAM	50	0	21.13	21.10	20.99	22.50
		1	0	21.06	21.41	21.12	22.50
		1	25	21.07	21.55	20.92	22.50
		1	49	21.12	21.57	21.05	22.50
		25	0	20.28	20.16	19.94	21.50
		25	13	20.21	20.04	20.13	21.50
		25	25	20.27	20.27	20.21	21.50
		50	0	20.18	20.23	20.00	21.50
	256QAM	1	0	18.01	17.83	17.88	19.50
		1	25	17.93	18.04	17.83	19.50
		1	49	17.94	17.96	17.76	19.50
		25	0	18.13	18.03	17.95	19.50
		25	13	18.14	18.20	17.89	19.50
		25	25	18.12	18.12	17.96	19.50
50		0	18.19	18.09	18.13	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.03	23.01	22.96	24.50
		1	38	23.04	23.01	22.87	24.50
		1	74	23.03	22.93	22.87	24.50
		36	0	22.06	22.06	21.94	23.50
		36	18	22.18	22.06	22.07	23.50
		36	39	22.16	22.10	22.01	23.50
		75	0	22.15	22.04	21.98	23.50
	16QAM	1	0	21.98	22.51	22.35	23.50
		1	38	22.08	22.41	22.44	23.50
		1	74	22.05	22.37	22.47	23.50
		36	0	21.11	21.12	20.98	22.50
		36	18	21.20	21.13	21.02	22.50
		36	39	21.16	21.16	21.04	22.50
		75	0	21.16	21.09	20.95	22.50
	64QAM	1	0	20.95	21.49	21.47	22.50
		1	38	21.11	21.42	21.47	22.50
		1	74	21.15	21.46	21.59	22.50
		36	0	20.22	20.15	19.99	21.50
		36	18	20.27	20.06	20.13	21.50
		36	39	20.13	20.18	19.95	21.50
		75	0	20.22	20.00	20.04	21.50
	256QAM	1	0	18.08	17.89	17.87	19.50
		1	38	18.01	17.86	17.70	19.50
		1	74	17.96	18.02	17.75	19.50
		36	0	18.18	18.19	18.06	19.50
		36	18	18.22	18.08	17.83	19.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
				36	39	18.07	
75	0	18.04	18.01	17.89	19.50		
20MHz	QPSK	1	0	23.06	23.03	22.89	24.50
		1	50	23.00	23.01	22.82	24.50
		1	99	23.01	22.98	22.85	24.50
		50	0	22.06	22.08	21.99	23.50
		50	25	22.15	22.05	22.08	23.50
		50	50	22.13	22.12	22.01	23.50
		100	0	22.15	22.04	21.97	23.50
	16QAM	1	0	22.64	22.54	22.41	23.50
		1	50	22.69	22.51	22.31	23.50
		1	99	22.70	22.53	22.30	23.50
		50	0	21.12	21.12	20.98	22.50
		50	25	21.18	21.07	21.04	22.50
		50	50	21.20	21.16	21.02	22.50
		100	0	21.19	21.07	21.00	22.50
	64QAM	1	0	21.66	21.59	21.47	22.50
		1	50	21.78	21.66	21.23	22.50
		1	99	21.66	21.66	21.33	22.50
		50	0	20.03	20.09	19.91	21.50
		50	25	20.22	20.07	20.15	21.50
		50	50	20.29	20.25	19.97	21.50
		100	0	20.31	20.16	20.02	21.50
	256QAM	1	0	17.89	18.10	17.85	19.50
		1	50	18.01	18.03	17.71	19.50
		1	99	17.92	18.03	17.86	19.50
		50	0	18.03	18.23	18.05	19.50
		50	25	18.19	18.19	17.84	19.50
		50	50	18.14	18.14	17.96	19.50
		100	0	18.19	18.22	18.02	19.50

LTE FDD Band 2 ANT 4 Level 5				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	18.42	18.37	18.28	20.00
		1	2	18.53	18.48	18.48	20.00
		1	5	18.47	18.44	18.40	20.00
		3	0	18.35	18.28	18.33	20.00
		3	2	18.59	18.54	18.63	20.00
		3	3	18.43	18.41	18.47	20.00



	16QAM	6	0	18.57	18.61	18.59	20.00	
		1	0	18.32	18.34	18.31	20.00	
		1	2	18.66	18.50	18.63	20.00	
		1	5	18.46	18.44	18.33	20.00	
		3	0	18.58	18.51	18.56	20.00	
		3	2	18.46	18.40	18.39	20.00	
		3	3	18.42	18.37	18.38	20.00	
		6	0	18.61	18.53	18.58	20.00	
	64QAM	1	0	18.66	18.53	18.61	20.00	
		1	2	18.39	18.26	18.32	20.00	
		1	5	18.50	18.47	18.36	20.00	
		3	0	18.39	18.44	18.39	20.00	
		3	2	18.45	18.50	18.45	20.00	
		3	3	18.65	18.53	18.54	20.00	
		6	0	18.66	18.62	18.49	20.00	
	256QAM	1	0	17.96	18.00	17.99	19.50	
		1	2	17.94	18.03	17.89	19.50	
		1	5	18.02	18.06	18.00	19.50	
		3	0	17.93	17.89	18.03	19.50	
		3	2	18.05	18.01	17.90	19.50	
		3	3	18.00	17.93	18.00	19.50	
		6	0	18.05	17.91	17.91	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18615/1851.5	18900/1880	19185/1908.5	
	3MHz	QPSK	1	0	18.65	18.52	18.47	20.00
			1	7	18.42	18.42	18.43	20.00
			1	14	18.42	18.33	18.43	20.00
			8	0	18.42	18.46	18.35	20.00
8			4	18.59	18.50	18.50	20.00	
8			7	18.41	18.45	18.44	20.00	
15			0	18.51	18.51	18.50	20.00	
16QAM		1	0	18.63	18.50	18.57	20.00	
		1	7	18.42	18.43	18.45	20.00	
		1	14	18.57	18.37	18.50	20.00	
		8	0	18.63	18.58	18.67	20.00	
		8	4	18.58	18.62	18.59	20.00	
		8	7	18.56	18.44	18.42	20.00	
		15	0	18.58	18.48	18.43	20.00	
64QAM		1	0	18.65	18.47	18.61	20.00	
		1	7	18.37	18.37	18.40	20.00	
		1	14	18.34	18.40	18.33	20.00	
		8	0	18.38	18.43	18.45	20.00	
		8	4	18.51	18.58	18.53	20.00	



		8	7	18.43	18.43	18.41	20.00
		15	0	18.63	18.65	18.60	20.00
	256QAM	1	0	17.90	18.10	17.96	19.50
		1	7	18.04	17.90	18.03	19.50
		1	14	17.96	17.93	18.09	19.50
		8	0	18.04	18.09	18.09	19.50
		8	4	18.07	17.94	17.92	19.50
		8	7	18.05	17.99	18.01	19.50
		15	0	17.90	17.97	18.05	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	18.64	18.50	18.46	20.00
		1	13	18.44	18.31	18.38	20.00
		1	24	18.56	18.55	18.47	20.00
		12	0	18.44	18.41	18.32	20.00
		12	6	18.52	18.40	18.54	20.00
		12	13	18.44	18.30	18.30	20.00
		25	0	18.45	18.55	18.40	20.00
	16QAM	1	0	18.39	18.39	18.42	20.00
		1	13	18.65	18.64	18.60	20.00
		1	24	18.40	18.35	18.34	20.00
		12	0	18.65	18.60	18.57	20.00
		12	6	18.38	18.36	18.24	20.00
		12	13	18.57	18.53	18.54	20.00
		25	0	18.49	18.53	18.47	20.00
	64QAM	1	0	18.61	18.58	18.59	20.00
		1	13	18.60	18.55	18.42	20.00
		1	24	18.56	18.48	18.52	20.00
		12	0	18.33	18.30	18.34	20.00
		12	6	18.62	18.45	18.47	20.00
		12	13	18.56	18.48	18.50	20.00
		25	0	18.60	18.66	18.64	20.00
	256QAM	1	0	18.01	17.91	17.92	19.50
		1	13	17.91	18.00	18.04	19.50
		1	24	18.05	18.07	17.95	19.50
		12	0	18.01	18.06	18.09	19.50
		12	6	18.01	17.99	18.02	19.50
		12	13	17.92	17.94	17.95	19.50
		25	0	18.08	18.00	17.93	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	18.44	18.29	18.28	20.00
		1	25	18.63	18.57	18.52	20.00



		1	49	18.55	18.49	18.60	20.00	
		25	0	18.66	18.60	18.58	20.00	
		25	13	18.65	18.56	18.66	20.00	
		25	25	18.49	18.53	18.57	20.00	
		50	0	18.42	18.35	18.34	20.00	
	16QAM	1	0	18.54	18.47	18.54	20.00	
		1	25	18.40	18.39	18.32	20.00	
		1	49	18.39	18.28	18.32	20.00	
		25	0	18.61	18.55	18.50	20.00	
		25	13	18.51	18.43	18.47	20.00	
		25	25	18.46	18.31	18.42	20.00	
		50	0	18.54	18.46	18.41	20.00	
	64QAM	1	0	18.54	18.46	18.51	20.00	
		1	25	18.37	18.32	18.41	20.00	
		1	49	18.40	18.33	18.35	20.00	
		25	0	18.60	18.62	18.61	20.00	
		25	13	18.53	18.44	18.44	20.00	
		25	25	18.37	18.38	18.44	20.00	
		50	0	18.49	18.47	18.47	20.00	
	256QAM	1	0	17.94	17.92	17.96	19.50	
		1	25	17.96	18.06	17.89	19.50	
		1	49	17.98	18.04	18.05	19.50	
		25	0	18.03	17.94	18.07	19.50	
		25	13	17.93	17.90	18.09	19.50	
		25	25	18.02	18.08	18.03	19.50	
		50	0	17.96	18.10	17.96	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	18.36	18.37	18.29	20.00	
		1	38	18.44	18.39	18.34	20.00	
		1	74	18.43	18.36	18.38	20.00	
		36	0	18.62	18.63	18.60	20.00	
		36	18	18.31	18.38	18.30	20.00	
		36	39	18.37	18.33	18.39	20.00	
		75	0	18.48	18.42	18.41	20.00	
	16QAM	1	0	18.59	18.55	18.65	20.00	
		1	38	18.65	18.60	18.48	20.00	
		1	74	18.42	18.41	18.44	20.00	
		36	0	18.48	18.46	18.41	20.00	
		36	18	18.46	18.55	18.53	20.00	
		36	39	18.46	18.37	18.45	20.00	
		75	0	18.64	18.55	18.52	20.00	
	64QAM	1	0	18.61	18.64	18.61	20.00	



		1	38	18.56	18.62	18.60	20.00
		1	74	18.30	18.35	18.38	20.00
		36	0	18.42	18.48	18.39	20.00
		36	18	18.50	18.44	18.53	20.00
		36	39	18.53	18.49	18.57	20.00
		75	0	18.49	18.31	18.37	20.00
		75	0	18.49	18.31	18.37	20.00
	256QAM	1	0	18.00	18.03	17.98	19.50
		1	38	17.93	18.03	18.07	19.50
		1	74	18.02	17.97	17.89	19.50
		36	0	18.03	17.92	18.06	19.50
		36	18	17.97	17.92	17.96	19.50
		36	39	17.90	18.04	18.01	19.50
		75	0	18.07	18.06	18.06	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	18.80	18.58	18.72	20.00
		1	50	18.74	18.57	18.49	20.00
		1	99	18.64	18.50	18.49	20.00
		50	0	18.54	18.36	18.45	20.00
		50	25	18.71	18.58	18.55	20.00
		50	50	18.54	18.45	18.42	20.00
		100	0	18.60	18.47	18.45	20.00
	16QAM	1	0	18.63	18.58	18.53	20.00
		1	50	18.55	18.48	18.47	20.00
		1	99	18.41	18.44	18.45	20.00
		50	0	18.40	18.37	18.36	20.00
		50	25	18.48	18.40	18.37	20.00
		50	50	18.30	18.31	18.34	20.00
		100	0	18.62	18.45	18.56	20.00
	64QAM	1	0	18.65	18.47	18.52	20.00
		1	50	18.52	18.41	18.51	20.00
		1	99	18.48	18.41	18.37	20.00
		50	0	18.70	18.62	18.66	20.00
		50	25	18.59	18.41	18.50	20.00
		50	50	18.43	18.36	18.40	20.00
		100	0	18.62	18.51	18.53	20.00
	256QAM	1	0	17.98	18.06	17.89	19.50
		1	50	18.00	17.97	18.01	19.50
		1	99	18.09	17.90	18.00	19.50
		50	0	18.03	17.96	17.92	19.50
		50	25	18.00	17.95	17.92	19.50
		50	50	18.06	17.97	17.93	19.50
		100	0	17.97	18.01	18.04	19.50



LTE FDD Band 2 ANT 4 Full Power&Level 6&7&8				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	18.12	18.06	18.13	19.50
		1	2	18.21	18.16	18.01	19.50
		1	5	18.12	18.11	18.14	19.50
		3	0	18.02	17.87	17.89	19.50
		3	2	18.03	17.98	18.04	19.50
		3	3	18.07	18.01	18.13	19.50
		6	0	17.97	17.89	17.88	19.50
	16QAM	1	0	18.22	18.07	18.06	19.50
		1	2	17.99	17.92	17.94	19.50
		1	5	17.89	17.83	17.89	19.50
		3	0	17.86	17.81	17.75	19.50
		3	2	18.17	18.05	18.04	19.50
		3	3	17.98	18.03	17.93	19.50
		6	0	18.00	18.01	17.98	19.50
	64QAM	1	0	17.86	17.92	17.92	19.50
		1	2	18.10	17.92	18.03	19.50
		1	5	18.15	18.03	18.12	19.50
		3	0	18.02	18.00	18.09	19.50
		3	2	18.17	18.02	18.06	19.50
		3	3	18.05	18.00	17.97	19.50
		6	0	18.04	17.95	17.86	19.50
	256QAM	1	0	18.00	17.92	17.90	19.50
		1	2	18.05	18.08	17.97	19.50
		1	5	18.01	17.93	18.04	19.50
		3	0	17.90	18.03	18.03	19.50
		3	2	17.90	18.10	18.02	19.50
		3	3	17.94	17.98	18.01	19.50
		6	0	17.97	17.94	18.01	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
3MHz	QPSK	1	0	18.01	18.03	18.04	19.50
		1	7	18.08	18.00	17.95	19.50
		1	14	17.91	17.97	18.00	19.50
		8	0	18.07	18.01	18.00	19.50
		8	4	17.88	17.92	17.94	19.50
		8	7	17.90	17.89	17.88	19.50
		15	0	17.83	17.77	17.86	19.50
	16QAM	1	0	17.89	17.89	17.84	19.50



		1	7	17.87	17.80	17.91	19.50	
		1	14	17.85	17.83	17.93	19.50	
		8	0	17.97	17.81	17.95	19.50	
		8	4	18.03	17.93	17.95	19.50	
		8	7	18.09	18.14	18.03	19.50	
		15	0	17.84	17.83	17.89	19.50	
	64QAM	1	0	18.13	18.13	18.08	19.50	
		1	7	18.03	17.89	17.83	19.50	
		1	14	18.11	18.03	18.04	19.50	
		8	0	17.84	17.80	17.81	19.50	
		8	4	18.09	18.11	18.04	19.50	
		8	7	17.92	17.90	17.91	19.50	
	256QAM	15	0	17.90	17.91	17.85	19.50	
		1	0	18.06	18.08	18.00	19.50	
		1	7	17.93	17.94	18.07	19.50	
		1	14	17.91	18.07	17.95	19.50	
		8	0	17.94	18.06	17.96	19.50	
		8	4	17.95	17.92	17.92	19.50	
	5MHz	QPSK	8	7	18.03	18.07	18.00	19.50
			15	0	17.98	17.97	18.07	19.50
			1	0	17.92	17.76	17.80	19.50
1			13	18.13	18.15	18.13	19.50	
1			24	18.14	18.01	18.07	19.50	
12			0	17.86	17.90	17.83	19.50	
16QAM		12	6	17.87	17.93	17.80	19.50	
		12	13	17.95	17.89	17.85	19.50	
		25	0	18.12	18.01	18.06	19.50	
		1	0	17.82	17.86	17.75	19.50	
		1	13	18.03	17.92	17.89	19.50	
		1	24	18.12	17.98	18.01	19.50	
64QAM		12	0	18.07	18.09	18.06	19.50	
		12	6	17.97	18.04	17.98	19.50	
		12	13	18.17	18.11	18.02	19.50	
		25	0	18.13	17.95	18.07	19.50	
		1	0	17.85	17.81	17.88	19.50	
		1	13	17.94	17.86	17.90	19.50	
		64QAM	1	24	17.97	18.00	17.96	19.50
			12	0	17.96	17.85	17.80	19.50
			12	6	18.03	17.97	17.95	19.50
	12		13	17.90	17.87	17.86	19.50	
	25		0	17.85	17.85	17.81	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18625/1852.5	18900/1880	19175/1907.5		



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18650/1855	18900/1880	19150/1905		
	256QAM	1	0	18.06	17.99	18.01	19.50	
		1	13	17.92	18.05	17.93	19.50	
		1	24	18.06	18.02	17.98	19.50	
		12	0	18.09	17.96	18.06	19.50	
		12	6	17.92	17.98	17.94	19.50	
		12	13	17.90	18.06	17.94	19.50	
		25	0	18.07	17.90	17.96	19.50	
10MHz	QPSK	1	0	17.85	17.87	17.79	19.50	
		1	25	18.05	17.94	17.95	19.50	
		1	49	18.16	18.07	18.11	19.50	
		25	0	17.92	17.82	17.93	19.50	
		25	13	17.88	17.89	17.89	19.50	
		25	25	17.99	17.92	17.91	19.50	
		50	0	18.05	18.08	17.98	19.50	
	16QAM	1	0	18.17	18.11	18.09	19.50	
		1	25	17.97	17.91	17.87	19.50	
		1	49	18.01	17.97	18.02	19.50	
		25	0	17.95	17.96	17.92	19.50	
		25	13	17.94	17.91	17.87	19.50	
		25	25	18.17	18.03	18.04	19.50	
		50	0	18.00	18.03	17.93	19.50	
	64QAM	1	0	18.10	18.14	18.08	19.50	
		1	25	17.92	17.87	17.87	19.50	
		1	49	18.13	17.99	17.96	19.50	
		25	0	18.22	18.08	18.18	19.50	
		25	13	18.03	18.02	18.07	19.50	
		25	25	17.93	17.95	17.80	19.50	
		50	0	17.99	17.95	17.95	19.50	
	256QAM	1	0	18.03	18.08	17.95	19.50	
		1	25	17.95	17.89	18.05	19.50	
		1	49	18.09	18.04	17.89	19.50	
		25	0	17.97	17.99	17.93	19.50	
		25	13	17.92	18.05	18.09	19.50	
		25	25	18.06	18.09	18.03	19.50	
		50	0	17.96	18.03	18.08	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18675/1857.5	18900/1880	19125/1902.5	
	15MHz	QPSK	1	0	18.20	18.13	18.14	19.50
			1	38	18.11	18.03	18.07	19.50
			1	74	18.03	18.02	18.06	19.50
			36	0	18.03	18.02	17.98	19.50



	16QAM	36	18	18.01	17.95	17.93	19.50	
		36	39	17.99	17.95	17.84	19.50	
		75	0	17.99	18.03	18.07	19.50	
		1	0	17.97	17.97	18.04	19.50	
		1	38	17.93	17.84	17.88	19.50	
		1	74	17.92	17.84	17.87	19.50	
		36	0	18.07	18.05	18.00	19.50	
		36	18	17.91	17.89	17.85	19.50	
		36	39	17.93	17.86	17.87	19.50	
	75	0	17.88	17.90	17.78	19.50		
	64QAM	1	0	18.07	18.05	18.05	19.50	
		1	38	18.00	17.98	17.93	19.50	
		1	74	18.05	17.93	18.04	19.50	
		36	0	17.94	17.89	17.88	19.50	
		36	18	18.17	18.15	18.04	19.50	
		36	39	18.05	17.88	18.01	19.50	
		75	0	17.90	17.82	17.88	19.50	
	256QAM	1	0	18.00	17.99	18.06	19.50	
		1	38	17.93	17.90	18.06	19.50	
		1	74	18.02	17.91	18.00	19.50	
		36	0	18.01	17.96	18.04	19.50	
		36	18	17.96	17.93	17.90	19.50	
		36	39	17.92	18.06	17.92	19.50	
		75	0	18.00	18.01	18.00	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18700/1860	18900/1880	19100/1900	
	20MHz	QPSK	1	0	18.08	17.99	18.05	19.50
1			50	18.32	18.23	18.17	19.50	
1			99	18.06	18.01	17.92	19.50	
50			0	18.16	18.03	18.08	19.50	
50			25	18.21	18.04	18.13	19.50	
50			50	17.95	17.84	17.77	19.50	
100			0	17.92	17.81	17.78	19.50	
16QAM		1	0	18.12	18.05	17.96	19.50	
		1	50	18.10	18.07	18.08	19.50	
		1	99	18.10	17.93	17.95	19.50	
		50	0	18.01	18.04	17.96	19.50	
		50	25	18.07	18.08	18.02	19.50	
		50	50	17.92	17.98	17.92	19.50	
		100	0	18.06	18.03	18.00	19.50	
64QAM		1	0	17.87	17.89	17.87	19.50	
		1	50	18.08	18.09	18.05	19.50	
		1	99	17.83	17.89	17.77	19.50	



		50	0	18.13	18.16	18.13	19.50
		50	25	17.91	17.84	17.90	19.50
		50	50	17.96	17.92	17.94	19.50
		100	0	18.02	17.98	18.04	19.50
	256QAM	1	0	17.93	17.94	17.92	19.50
		1	50	18.01	18.07	17.91	19.50
		1	99	18.05	18.01	18.02	19.50
		50	0	18.10	18.03	17.90	19.50
		50	25	18.07	17.92	18.03	19.50
		50	50	17.97	18.02	18.09	19.50
		100	0	18.02	18.07	18.07	19.50

LTE FDD Band 4 ANT 3 Full Power				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	22.97	22.94	22.82	24.50
		1	2	23.05	22.99	22.91	24.50
		1	5	22.98	22.96	22.84	24.50
		3	0	23.00	22.91	22.87	24.50
		3	2	23.03	22.97	22.90	24.50
		3	3	23.03	22.91	22.89	24.50
		6	0	22.03	22.05	21.95	23.50
	16QAM	1	0	22.07	22.14	22.31	23.50
		1	2	22.15	22.18	22.33	23.50
		1	5	22.09	22.12	22.29	23.50
		3	0	22.23	22.04	22.08	23.50
		3	2	22.26	22.12	22.17	23.50
		3	3	22.25	22.09	22.11	23.50
		6	0	21.22	21.20	20.85	22.50
	64QAM	1	0	21.04	21.29	21.26	22.50
		1	2	21.29	21.13	21.26	22.50
		1	5	21.10	21.16	21.37	22.50
		3	0	21.17	21.07	21.01	22.50
		3	2	21.34	21.07	21.10	22.50
		3	3	21.19	21.12	21.23	22.50
		6	0	20.32	20.26	19.86	21.50
	256QAM	1	0	17.84	17.91	17.91	19.50
		1	2	18.10	17.82	17.82	19.50
		1	5	17.94	18.06	17.68	19.50
		3	0	18.15	18.12	17.77	19.50
		3	2	17.98	17.98	17.94	19.50
		3	3	18.04	18.05	17.85	19.50



Bandwidth	Modulation	6	0	18.04	18.12	17.81	19.50	
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				19965/1711.5	20175/1732.5	20385/1753.5		
3MHz	QPSK	1	0	23.02	22.94	22.90	24.50	
		1	7	23.11	23.12	22.99	24.50	
		1	14	23.01	23.06	22.95	24.50	
		8	0	22.14	22.03	22.01	23.50	
		8	4	22.17	22.17	22.01	23.50	
		8	7	22.14	22.09	22.02	23.50	
		15	0	22.13	22.12	22.05	23.50	
	16QAM	1	0	22.07	22.41	22.05	23.50	
		1	7	22.11	22.61	22.07	23.50	
		1	14	22.05	22.53	22.05	23.50	
		8	0	21.20	21.10	21.06	22.50	
		8	4	21.26	21.23	21.10	22.50	
		8	7	21.22	21.20	21.08	22.50	
		15	0	21.17	21.16	20.98	22.50	
	64QAM	1	0	21.19	21.49	20.99	22.50	
		1	7	21.14	21.68	21.20	22.50	
		1	14	20.97	21.47	20.96	22.50	
		8	0	20.13	20.17	20.06	21.50	
		8	4	20.34	20.21	20.12	21.50	
		8	7	20.17	20.11	20.13	21.50	
		15	0	20.17	20.08	19.92	21.50	
	256QAM	1	0	17.87	17.78	17.76	19.50	
		1	7	18.01	18.04	18.10	19.50	
		1	14	18.05	17.89	17.82	19.50	
		8	0	18.03	17.98	18.02	19.50	
		8	4	18.16	18.18	17.94	19.50	
		8	7	18.08	18.25	17.92	19.50	
		15	0	18.12	18.08	17.86	19.50	
	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	23.06	22.96	22.94
	1	13		23.07	23.07	22.95	24.50	
	1	24		22.99	23.07	22.91	24.50	
	12	0		22.09	22.06	22.00	23.50	
	12	6		22.11	22.16	22.01	23.50	
	12	13		22.14	22.08	21.99	23.50	
	25	0		22.12	22.06	21.98	23.50	
	16QAM	1	0	22.33	22.53	22.23	23.50	
		1	13	22.33	22.63	22.21	23.50	
		1	24	22.29	22.67	22.18	23.50	



		12	0	21.20	21.20	21.08	22.50	
		12	6	21.24	21.25	21.11	22.50	
		12	13	21.22	21.28	21.09	22.50	
		25	0	21.13	21.14	20.99	22.50	
	64QAM	1	0	21.45	21.60	21.19	22.50	
		1	13	21.48	21.77	21.32	22.50	
		1	24	21.42	21.78	21.10	22.50	
		12	0	20.25	20.15	20.04	21.50	
		12	6	20.19	20.23	20.15	21.50	
		12	13	20.30	20.19	20.19	21.50	
		25	0	20.09	20.17	20.00	21.50	
	256QAM	1	0	18.15	17.84	18.05	19.50	
		1	13	17.96	17.95	18.03	19.50	
		1	24	17.86	18.08	17.84	19.50	
		12	0	18.09	17.95	18.09	19.50	
		12	6	18.02	18.03	18.10	19.50	
		12	13	18.03	18.22	18.01	19.50	
		25	0	18.25	18.01	17.90	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20000/1715	20175/1732.5	20350/1750	
	10MHz	QPSK	1	0	23.04	22.96	22.95	24.50
1			25	22.95	22.94	22.94	24.50	
1			49	22.98	23.00	22.92	24.50	
25			0	22.07	22.02	21.93	23.50	
25			13	22.11	22.03	21.92	23.50	
25			25	22.08	22.15	21.98	23.50	
50			0	22.15	22.04	21.94	23.50	
16QAM		1	0	22.09	22.47	21.98	23.50	
		1	25	21.94	22.50	21.98	23.50	
		1	49	21.99	22.47	21.94	23.50	
		25	0	21.13	21.05	21.03	22.50	
		25	13	21.13	21.06	21.04	22.50	
		25	25	21.17	21.17	21.13	22.50	
		50	0	21.09	21.10	20.90	22.50	
64QAM		1	0	21.00	21.38	20.97	22.50	
		1	25	21.01	21.46	20.95	22.50	
		1	49	21.13	21.42	21.05	22.50	
		25	0	20.19	20.11	20.16	21.50	
		25	13	20.17	20.13	20.13	21.50	
		25	25	20.29	20.25	20.11	21.50	
		50	0	20.03	20.02	19.86	21.50	
256QAM		1	0	17.94	17.94	17.87	19.50	
		1	25	17.98	17.85	17.98	19.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
		1	49	17.96	17.97	17.77	19.50
		25	0	17.99	17.97	18.14	19.50
		25	13	18.15	17.89	18.14	19.50
		25	25	17.91	17.96	18.09	19.50
		50	0	17.99	17.94	18.09	19.50
15MHz	QPSK	1	0	23.07	23.03	23.03	24.50
		1	38	22.88	22.90	22.79	24.50
		1	74	22.84	22.93	22.80	24.50
		36	0	22.07	22.04	21.99	23.50
		36	18	22.03	21.96	22.00	23.50
		36	39	22.02	22.00	21.97	23.50
		75	0	22.02	21.95	21.88	23.50
	16QAM	1	0	22.60	22.04	22.45	23.50
		1	38	22.35	21.95	22.27	23.50
		1	74	22.35	22.05	22.23	23.50
		36	0	21.04	21.03	21.03	22.50
		36	18	21.05	21.00	21.04	22.50
		36	39	20.99	21.02	20.96	22.50
		75	0	21.04	20.95	20.99	22.50
	64QAM	1	0	21.69	21.00	21.39	22.50
		1	38	21.30	21.00	21.38	22.50
		1	74	21.32	21.06	21.34	22.50
		36	0	19.96	19.93	20.14	21.50
		36	18	20.06	20.05	19.96	21.50
		36	39	20.09	20.06	20.03	21.50
		75	0	20.00	20.02	20.08	21.50
	256QAM	1	0	18.17	18.11	17.95	19.50
		1	38	17.85	17.88	17.76	19.50
		1	74	17.94	17.82	17.69	19.50
		36	0	18.24	17.98	18.05	19.50
		36	18	17.88	17.97	17.81	19.50
		36	39	17.84	18.11	17.95	19.50
		75	0	18.09	18.23	17.95	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.06	23.11	22.96	24.50
		1	50	22.91	22.96	22.78	24.50
		1	99	22.95	23.00	22.75	24.50
		50	0	22.12	22.08	21.99	23.50
		50	25	22.11	22.00	22.03	23.50
		50	50	22.04	22.04	21.91	23.50



	16QAM	100	0	22.10	21.98	21.94	23.50
		1	0	22.65	22.62	22.45	23.50
		1	50	22.48	22.35	22.28	23.50
		1	99	22.50	22.60	22.25	23.50
		50	0	21.10	21.08	20.98	22.50
		50	25	21.15	21.01	20.99	22.50
		50	50	21.03	21.06	20.92	22.50
		100	0	21.15	21.02	20.93	22.50
	64QAM	1	0	21.74	21.72	21.55	22.50
		1	50	21.60	21.47	21.42	22.50
		1	99	21.60	21.66	21.25	22.50
		50	0	20.15	20.10	20.03	21.50
		50	25	20.07	20.07	19.93	21.50
		50	50	20.03	20.14	19.89	21.50
		100	0	20.29	19.98	20.01	21.50
	256QAM	1	0	17.92	18.06	17.99	19.50
		1	50	17.95	17.85	17.77	19.50
		1	99	17.95	18.00	17.65	19.50
		50	0	18.03	18.20	18.12	19.50
		50	25	17.93	18.07	17.96	19.50
		50	50	17.89	18.07	17.83	19.50
		100	0	18.26	18.21	18.08	19.50

LTE FDD Band 4 ANT 3 Level1				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	14.98	14.88	14.87	16.50
		1	2	14.96	14.96	14.95	16.50
		1	5	15.13	15.16	15.13	16.50
		3	0	15.06	15.03	15.07	16.50
		3	2	14.98	14.86	14.88	16.50
		3	3	14.88	14.89	14.98	16.50
		6	0	15.05	14.95	14.98	16.50
	16QAM	1	0	14.95	14.98	14.97	16.50
		1	2	15.07	15.03	15.02	16.50
		1	5	15.12	15.03	14.99	16.50
		3	0	14.91	14.91	14.89	16.50
		3	2	14.91	14.86	14.78	16.50
		3	3	14.99	15.08	14.96	16.50
		6	0	14.93	14.89	14.93	16.50
	64QAM	1	0	14.92	14.85	14.85	16.50
		1	2	14.95	14.80	14.83	16.50



		1	5	15.09	14.99	15.06	16.50	
		3	0	15.08	15.12	15.07	16.50	
		3	2	14.87	14.92	14.95	16.50	
		3	3	14.91	14.82	14.75	16.50	
		6	0	14.93	14.86	14.83	16.50	
	256QAM	1	0	14.89	14.78	14.80	16.50	
		1	2	14.88	14.91	14.93	16.50	
		1	5	15.07	15.13	15.12	16.50	
		3	0	14.97	14.97	15.00	16.50	
		3	2	14.96	14.80	14.85	16.50	
		3	3	14.78	14.88	14.94	16.50	
		6	0	15.04	14.87	14.97	16.50	
	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	15.06	14.89	14.90	16.50	
		1	7	15.00	14.91	14.84	16.50	
		1	14	14.87	14.77	14.82	16.50	
		8	0	14.98	15.07	14.95	16.50	
		8	4	15.21	15.02	15.16	16.50	
		8	7	15.08	15.11	15.10	16.50	
		15	0	15.12	15.15	15.05	16.50	
	16QAM	1	0	15.12	15.14	15.03	16.50	
		1	7	15.03	14.90	14.86	16.50	
		1	14	14.89	14.78	14.79	16.50	
		8	0	15.07	15.03	14.96	16.50	
		8	4	15.01	14.90	14.87	16.50	
		8	7	14.94	14.90	14.99	16.50	
		15	0	15.10	14.90	14.99	16.50	
	64QAM	1	0	14.93	14.74	14.80	16.50	
		1	7	15.02	15.01	15.08	16.50	
		1	14	14.85	14.75	14.86	16.50	
		8	0	15.08	15.03	14.99	16.50	
		8	4	14.95	14.90	14.90	16.50	
		8	7	15.00	14.93	14.91	16.50	
		15	0	14.90	14.90	14.85	16.50	
	256QAM	1	0	15.01	14.85	14.82	16.50	
		1	7	14.95	14.85	14.81	16.50	
		1	14	14.81	14.68	14.73	16.50	
		8	0	14.97	15.06	14.88	16.50	
		8	4	15.20	14.93	15.08	16.50	
		8	7	14.99	15.00	15.10	16.50	
		15	0	15.04	15.14	15.04	16.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up



				19975/1712.5	20175/1732.5	20375/1752.5	Limit
5MHz	QPSK	1	0	15.10	15.11	15.10	16.50
		1	13	15.05	14.98	15.06	16.50
		1	24	15.04	14.97	14.98	16.50
		12	0	15.05	15.09	15.14	16.50
		12	6	15.07	15.08	15.08	16.50
		12	13	15.07	15.07	15.01	16.50
		25	0	15.11	15.03	15.10	16.50
	16QAM	1	0	14.95	14.94	14.93	16.50
		1	13	15.14	14.99	15.02	16.50
		1	24	14.85	14.87	14.85	16.50
		12	0	15.07	15.05	14.96	16.50
		12	6	14.98	14.93	14.86	16.50
		12	13	15.02	14.94	15.05	16.50
		25	0	14.83	14.81	14.85	16.50
	64QAM	1	0	14.81	14.81	14.87	16.50
		1	13	15.05	15.01	15.07	16.50
		1	24	14.92	14.78	14.85	16.50
		12	0	15.14	15.06	15.10	16.50
		12	6	15.01	15.04	14.97	16.50
		12	13	15.16	15.10	14.99	16.50
		25	0	15.08	15.08	15.09	16.50
	256QAM	1	0	15.08	15.02	14.99	16.50
		1	13	15.01	14.93	15.01	16.50
		1	24	14.94	14.88	14.87	16.50
		12	0	14.96	14.99	15.06	16.50
		12	6	15.05	15.04	15.01	16.50
		12	13	15.01	15.02	14.92	16.50
		25	0	15.04	15.00	15.02	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
10MHz	QPSK	1	0	20000/1715	20175/1732.5	20350/1750	16.50
		1	25	15.03	14.93	14.89	16.50
		1	49	15.02	15.07	14.98	16.50
		25	0	15.15	15.14	15.13	16.50
		25	0	15.08	14.97	15.07	16.50
		25	13	15.11	15.15	15.10	16.50
		25	25	14.95	14.85	14.89	16.50
	16QAM	50	0	15.05	14.92	14.97	16.50
		1	0	15.16	15.05	15.01	16.50
		1	25	14.96	14.86	14.85	16.50
		1	49	14.92	14.87	14.90	16.50
		25	0	15.13	15.01	15.01	16.50
		25	0	15.13	15.01	15.01	16.50
		25	13	15.01	15.07	14.99	16.50
		25	13	15.01	15.07	14.99	16.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20025/1717.5	20175/1732.5	20325/1747.5		
15MHz		25	25	14.82	14.81	14.89	16.50	
		50	0	14.88	14.87	14.84	16.50	
	64QAM	1	0	14.85	14.76	14.83	16.50	
		1	25	15.14	15.08	15.01	16.50	
		1	49	14.99	14.96	15.00	16.50	
		25	0	14.97	14.82	14.80	16.50	
		25	13	15.05	15.01	15.04	16.50	
		25	25	15.09	15.18	15.18	16.50	
		50	0	14.95	14.89	14.78	16.50	
		256QAM	1	0	14.94	14.92	14.88	16.50
	1		25	14.98	14.98	14.87	16.50	
	1		49	15.13	15.13	15.07	16.50	
	25		0	15.03	14.93	15.05	16.50	
	25		13	15.06	15.04	15.04	16.50	
	25		25	14.93	14.84	14.79	16.50	
	50		0	15.03	14.81	14.89	16.50	
	15MHz		QPSK	1	0	14.84	14.85	14.91
		1		38	15.07	14.99	14.98	16.50
		1		74	15.02	14.92	15.00	16.50
		36		0	15.11	15.12	15.05	16.50
		36		18	14.97	14.98	14.87	16.50
		36		39	15.20	15.14	15.07	16.50
		75		0	15.09	15.01	15.11	16.50
		16QAM	1	0	14.97	14.92	14.96	16.50
			1	38	14.96	14.96	15.02	16.50
			1	74	15.09	15.09	15.03	16.50
			36	0	14.86	14.85	14.83	16.50
			36	18	14.89	14.93	14.92	16.50
36			39	15.18	15.04	15.08	16.50	
75			0	15.04	15.02	15.11	16.50	
64QAM		1	0	15.17	15.17	15.18	16.50	
		1	38	14.93	14.83	14.79	16.50	
		1	74	14.84	14.87	14.86	16.50	
		36	0	14.98	14.92	15.01	16.50	
		36	18	15.23	15.15	15.03	16.50	
		36	39	14.92	14.97	15.02	16.50	
		75	0	14.92	14.92	14.96	16.50	
256QAM		1	0	14.78	14.75	14.81	16.50	
		1	38	15.07	14.88	14.97	16.50	
		1	74	15.01	14.88	14.97	16.50	
		36	0	15.03	15.06	14.99	16.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz		36	18	14.95	14.94	14.86	16.50
		36	39	15.13	15.07	14.98	16.50
		75	0	15.05	14.96	15.04	16.50
	QPSK	1	0	15.19	15.15	15.13	16.50
		1	50	15.36	15.20	15.19	16.50
		1	99	14.85	14.93	14.85	16.50
		50	0	14.96	14.89	14.78	16.50
		50	25	15.03	14.97	14.94	16.50
		50	50	15.05	15.08	15.13	16.50
		100	0	14.91	14.93	14.87	16.50
	16QAM	1	0	14.95	14.79	14.76	16.50
		1	50	15.14	15.05	15.10	16.50
		1	99	14.88	14.93	14.95	16.50
		50	0	14.98	14.89	14.79	16.50
		50	25	15.04	15.04	14.99	16.50
		50	50	14.85	14.87	14.87	16.50
		100	0	15.07	15.03	15.13	16.50
	64QAM	1	0	15.08	14.94	15.01	16.50
		1	50	15.03	14.94	14.90	16.50
		1	99	15.17	15.12	15.09	16.50
		50	0	14.89	14.82	14.78	16.50
		50	25	14.87	14.90	14.80	16.50
		50	50	14.88	14.83	14.74	16.50
		100	0	14.89	14.80	14.82	16.50
	256QAM	1	0	15.15	15.12	15.09	16.50
		1	50	15.26	15.14	15.18	16.50
		1	99	14.81	14.86	14.82	16.50
		50	0	14.91	14.81	14.68	16.50
		50	25	14.98	14.88	14.92	16.50
		50	50	15.03	14.98	15.05	16.50
		100	0	14.80	14.86	14.87	16.50

LTE FDD Band 4 ANT 3 Level2&3&4				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	14.67	14.57	14.54	16.00
		1	2	14.61	14.46	14.53	16.00
		1	5	14.65	14.56	14.60	16.00
		3	0	14.64	14.54	14.52	16.00
		3	2	14.48	14.48	14.54	16.00



		3	3	14.36	14.29	14.24	16.00	
		6	0	14.54	14.50	14.50	16.00	
	16QAM	1	0	14.37	14.34	14.28	16.00	
		1	2	14.59	14.43	14.49	16.00	
		1	5	14.67	14.64	14.64	16.00	
		3	0	14.45	14.42	14.38	16.00	
		3	2	14.66	14.59	14.49	16.00	
		3	3	14.57	14.52	14.60	16.00	
		6	0	14.40	14.45	14.45	16.00	
		64QAM	1	0	14.65	14.61	14.66	16.00
	1		2	14.43	14.35	14.37	16.00	
	1		5	14.34	14.28	14.29	16.00	
	3		0	14.45	14.50	14.38	16.00	
	3		2	14.69	14.56	14.62	16.00	
	3		3	14.67	14.52	14.54	16.00	
	6		0	14.46	14.51	14.37	16.00	
	256QAM	1	0	14.59	14.51	14.53	16.00	
		1	2	14.58	14.38	14.53	16.00	
		1	5	14.58	14.48	14.59	16.00	
		3	0	14.56	14.44	14.43	16.00	
		3	2	14.48	14.43	14.47	16.00	
		3	3	14.27	14.19	14.23	16.00	
		6	0	14.50	14.47	14.44	16.00	
	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	14.52	14.42	14.38	16.00
			1	7	14.71	14.67	14.65	16.00
			1	14	14.30	14.34	14.28	16.00
8			0	14.57	14.66	14.51	16.00	
8			4	14.34	14.29	14.36	16.00	
8			7	14.39	14.37	14.46	16.00	
15			0	14.48	14.39	14.40	16.00	
16QAM		1	0	14.47	14.45	14.51	16.00	
		1	7	14.51	14.44	14.47	16.00	
		1	14	14.40	14.36	14.28	16.00	
		8	0	14.43	14.35	14.42	16.00	
		8	4	14.54	14.47	14.62	16.00	
		8	7	14.38	14.37	14.32	16.00	
		15	0	14.46	14.41	14.32	16.00	
64QAM		1	0	14.55	14.45	14.59	16.00	
		1	7	14.56	14.46	14.44	16.00	
		1	14	14.67	14.50	14.58	16.00	
		8	0	14.35	14.30	14.35	16.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
	256QAM	8	4	14.42	14.39	14.36	16.00
		8	7	14.40	14.31	14.36	16.00
		15	0	14.69	14.63	14.64	16.00
		1	0	14.44	14.34	14.32	16.00
		1	7	14.61	14.57	14.58	16.00
		1	14	14.29	14.30	14.17	16.00
		8	0	14.55	14.58	14.47	16.00
		8	4	14.27	14.24	14.30	16.00
		8	7	14.31	14.35	14.44	16.00
		15	0	14.42	14.38	14.30	16.00
5MHz	QPSK	1	0	14.57	14.55	14.63	16.00
		1	13	14.52	14.51	14.39	16.00
		1	24	14.42	14.49	14.41	16.00
		12	0	14.63	14.64	14.60	16.00
		12	6	14.35	14.28	14.29	16.00
		12	13	14.37	14.28	14.25	16.00
		25	0	14.52	14.49	14.55	16.00
	16QAM	1	0	14.58	14.58	14.57	16.00
		1	13	14.46	14.32	14.32	16.00
		1	24	14.49	14.47	14.37	16.00
		12	0	14.48	14.41	14.33	16.00
		12	6	14.46	14.38	14.40	16.00
		12	13	14.40	14.30	14.37	16.00
		25	0	14.52	14.49	14.49	16.00
	64QAM	1	0	14.57	14.40	14.39	16.00
		1	13	14.54	14.40	14.40	16.00
		1	24	14.63	14.62	14.50	16.00
		12	0	14.36	14.34	14.45	16.00
		12	6	14.33	14.37	14.36	16.00
		12	13	14.44	14.47	14.34	16.00
		25	0	14.46	14.43	14.30	16.00
	256QAM	1	0	14.46	14.51	14.59	16.00
		1	13	14.45	14.49	14.33	16.00
		1	24	14.39	14.39	14.39	16.00
		12	0	14.62	14.54	14.57	16.00
		12	6	14.32	14.23	14.20	16.00
		12	13	14.30	14.20	14.18	16.00
		25	0	14.45	14.42	14.45	16.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	14.49	14.45	14.52	16.00



		1	25	14.60	14.56	14.54	16.00
		1	49	14.38	14.42	14.47	16.00
		25	0	14.41	14.40	14.39	16.00
		25	13	14.50	14.53	14.45	16.00
		25	25	14.48	14.46	14.33	16.00
		50	0	14.55	14.51	14.55	16.00
	16QAM	1	0	14.58	14.57	14.58	16.00
		1	25	14.45	14.36	14.45	16.00
		1	49	14.44	14.40	14.35	16.00
		25	0	14.66	14.58	14.52	16.00
		25	13	14.53	14.50	14.41	16.00
		25	25	14.49	14.40	14.46	16.00
	64QAM	50	0	14.69	14.64	14.57	16.00
		1	0	14.50	14.45	14.35	16.00
		1	25	14.63	14.56	14.53	16.00
		1	49	14.34	14.37	14.31	16.00
		25	0	14.56	14.56	14.65	16.00
		25	13	14.35	14.40	14.36	16.00
	256QAM	25	25	14.62	14.66	14.59	16.00
		50	0	14.65	14.62	14.57	16.00
		1	0	14.44	14.35	14.48	16.00
		1	25	14.51	14.48	14.51	16.00
		1	49	14.28	14.36	14.42	16.00
		25	0	14.37	14.34	14.31	16.00
15MHz	QPSK	25	13	14.44	14.44	14.35	16.00
		25	25	14.45	14.44	14.32	16.00
		50	0	14.52	14.40	14.47	16.00
		1	0	14.49	14.45	14.56	16.00
		1	38	14.65	14.64	14.50	16.00
		1	74	14.59	14.64	14.57	16.00
		36	0	14.71	14.60	14.59	16.00
16QAM	16QAM	36	18	14.49	14.41	14.36	16.00
		36	39	14.64	14.58	14.61	16.00
		75	0	14.63	14.60	14.60	16.00
		1	0	14.55	14.52	14.40	16.00
		1	38	14.37	14.31	14.35	16.00
		1	74	14.59	14.51	14.46	16.00
		36	0	14.65	14.52	14.60	16.00
		36	18	14.48	14.44	14.43	16.00
		36	39	14.46	14.50	14.44	16.00
		75	0	14.41	14.35	14.40	16.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	



	64QAM	1	0	14.56	14.46	14.41	16.00
		1	38	14.55	14.51	14.52	16.00
		1	74	14.48	14.39	14.42	16.00
		36	0	14.58	14.57	14.56	16.00
		36	18	14.65	14.65	14.54	16.00
		36	39	14.69	14.58	14.59	16.00
		75	0	14.52	14.58	14.58	16.00
	256QAM	1	0	14.49	14.39	14.55	16.00
		1	38	14.62	14.63	14.39	16.00
		1	74	14.50	14.55	14.56	16.00
		36	0	14.61	14.52	14.48	16.00
		36	18	14.39	14.40	14.32	16.00
		36	39	14.62	14.50	14.57	16.00
		75	0	14.61	14.53	14.52	16.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	14.63	14.70	14.52	16.00
		1	50	14.81	14.55	14.63	16.00
		1	99	14.72	14.43	14.39	16.00
		50	0	14.35	14.35	14.29	16.00
		50	25	14.50	14.55	14.47	16.00
		50	50	14.41	14.39	14.42	16.00
		100	0	14.37	14.29	14.32	16.00
	16QAM	1	0	14.51	14.44	14.52	16.00
		1	50	14.56	14.53	14.57	16.00
		1	99	14.47	14.42	14.53	16.00
		50	0	14.56	14.45	14.55	16.00
		50	25	14.55	14.64	14.58	16.00
		50	50	14.59	14.54	14.54	16.00
		100	0	14.40	14.36	14.30	16.00
	64QAM	1	0	14.62	14.49	14.47	16.00
		1	50	14.53	14.49	14.41	16.00
		1	99	14.43	14.31	14.41	16.00
		50	0	14.52	14.44	14.40	16.00
		50	25	14.38	14.33	14.41	16.00
		50	50	14.60	14.61	14.49	16.00
		100	0	14.58	14.53	14.53	16.00
	256QAM	1	0	14.53	14.62	14.52	16.00
		1	50	14.77	14.51	14.52	16.00
		1	99	14.69	14.40	14.37	16.00
		50	0	14.29	14.26	14.25	16.00
		50	25	14.41	14.44	14.44	16.00
		50	50	14.34	14.34	14.41	16.00



		100	0	14.27	14.25	14.30	16.00
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LTE FDD Band 4 ANT 3 Level5				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	18.63	18.57	18.46	20.00
		1	2	18.52	18.34	18.33	20.00
		1	5	18.60	18.47	18.53	20.00
		3	0	18.40	18.36	18.26	20.00
		3	2	18.44	18.38	18.33	20.00
		3	3	18.40	18.42	18.40	20.00
		6	0	18.50	18.45	18.39	20.00
	16QAM	1	0	18.60	18.54	18.54	20.00
		1	2	18.33	18.25	18.33	20.00
		1	5	18.55	18.50	18.45	20.00
		3	0	18.45	18.35	18.41	20.00
		3	2	18.59	18.56	18.64	20.00
		3	3	18.49	18.55	18.45	20.00
		6	0	18.69	18.52	18.54	20.00
	64QAM	1	0	18.55	18.48	18.50	20.00
		1	2	18.50	18.43	18.56	20.00
		1	5	18.47	18.42	18.39	20.00
		3	0	18.57	18.37	18.48	20.00
		3	2	18.59	18.47	18.57	20.00
		3	3	18.64	18.56	18.44	20.00
		6	0	18.63	18.55	18.51	20.00
	256QAM	1	0	17.99	17.94	17.93	19.50
		1	2	18.00	17.96	17.94	19.50
		1	5	18.05	17.97	18.03	19.50
		3	0	18.04	17.94	18.01	19.50
		3	2	17.92	18.00	17.95	19.50
		3	3	17.98	17.99	18.05	19.50
		6	0	18.02	18.02	18.02	19.50
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	18.67	18.56	18.61	20.00
		1	7	18.48	18.38	18.41	20.00
		1	14	18.58	18.60	18.62	20.00
		8	0	18.32	18.32	18.28	20.00
		8	4	18.62	18.53	18.43	20.00
		8	7	18.35	18.29	18.39	20.00
		15	0	18.62	18.57	18.51	20.00



	16QAM	1	0	18.56	18.52	18.50	20.00
		1	7	18.57	18.58	18.58	20.00
		1	14	18.66	18.52	18.60	20.00
		8	0	18.45	18.40	18.40	20.00
		8	4	18.59	18.48	18.58	20.00
		8	7	18.29	18.30	18.30	20.00
		15	0	18.39	18.27	18.31	20.00
	64QAM	1	0	18.49	18.43	18.41	20.00
		1	7	18.62	18.61	18.57	20.00
		1	14	18.51	18.39	18.46	20.00
		8	0	18.51	18.47	18.51	20.00
		8	4	18.30	18.26	18.28	20.00
		8	7	18.44	18.42	18.40	20.00
		15	0	18.45	18.46	18.33	20.00
	256QAM	1	0	18.01	18.00	17.98	19.50
		1	7	18.04	18.03	17.93	19.50
		1	14	17.95	17.95	17.97	19.50
		8	0	17.96	17.97	17.94	19.50
		8	4	17.94	18.02	18.03	19.50
		8	7	17.97	18.03	18.03	19.50
		15	0	17.96	17.95	17.99	19.50
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	18.41	18.33	18.36	20.00
		1	13	18.47	18.43	18.30	20.00
		1	24	18.42	18.37	18.46	20.00
		12	0	18.36	18.32	18.28	20.00
		12	6	18.58	18.40	18.51	20.00
		12	13	18.46	18.33	18.43	20.00
		25	0	18.49	18.46	18.37	20.00
	16QAM	1	0	18.61	18.61	18.55	20.00
		1	13	18.51	18.45	18.41	20.00
		1	24	18.46	18.33	18.44	20.00
		12	0	18.44	18.46	18.47	20.00
		12	6	18.45	18.31	18.28	20.00
		12	13	18.54	18.41	18.50	20.00
		25	0	18.54	18.50	18.62	20.00
	64QAM	1	0	18.42	18.24	18.34	20.00
		1	13	18.63	18.49	18.60	20.00
		1	24	18.54	18.55	18.54	20.00
		12	0	18.46	18.28	18.28	20.00
		12	6	18.43	18.36	18.34	20.00
		12	13	18.47	18.38	18.37	20.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20000/1715	20175/1732.5	20350/1750		
	256QAM	25	0	18.52	18.38	18.46	20.00	
		1	0	17.97	17.96	18.04	19.50	
		1	13	18.03	17.93	18.00	19.50	
		1	24	18.00	17.94	18.03	19.50	
		12	0	18.01	18.00	17.97	19.50	
		12	6	17.98	17.99	17.99	19.50	
		12	13	17.94	17.97	17.99	19.50	
		25	0	18.01	18.01	18.03	19.50	
10MHz	QPSK	1	0	18.59	18.58	18.53	20.00	
		1	25	18.40	18.32	18.29	20.00	
		1	49	18.38	18.28	18.25	20.00	
		25	0	18.61	18.55	18.60	20.00	
		25	13	18.38	18.42	18.39	20.00	
		25	25	18.69	18.62	18.57	20.00	
		50	0	18.45	18.45	18.49	20.00	
	16QAM	1	0	18.33	18.39	18.41	20.00	
		1	25	18.65	18.62	18.60	20.00	
		1	49	18.48	18.35	18.32	20.00	
		25	0	18.56	18.42	18.43	20.00	
		25	13	18.39	18.37	18.38	20.00	
		25	25	18.39	18.44	18.44	20.00	
		50	0	18.48	18.44	18.38	20.00	
	64QAM	1	0	18.52	18.45	18.53	20.00	
		1	25	18.54	18.52	18.50	20.00	
		1	49	18.51	18.54	18.53	20.00	
		25	0	18.63	18.49	18.57	20.00	
		25	13	18.36	18.24	18.25	20.00	
		25	25	18.55	18.56	18.51	20.00	
		50	0	18.31	18.32	18.28	20.00	
	256QAM	1	0	17.95	17.97	18.04	19.50	
		1	25	17.95	17.99	17.97	19.50	
		1	49	18.04	17.92	18.00	19.50	
		25	0	18.04	18.01	18.03	19.50	
		25	13	17.99	18.01	18.01	19.50	
		25	25	18.02	17.96	17.97	19.50	
		50	0	18.03	17.94	18.01	19.50	
	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	18.38	18.39	18.24	20.00	
		1	38	18.68	18.63	18.65	20.00	
		1	74	18.69	18.61	18.55	20.00	



		36	0	18.33	18.27	18.38	20.00	
		36	18	18.40	18.30	18.41	20.00	
		36	39	18.56	18.47	18.43	20.00	
		75	0	18.41	18.31	18.38	20.00	
	16QAM	1	0	18.49	18.47	18.42	20.00	
		1	38	18.43	18.44	18.37	20.00	
		1	74	18.63	18.61	18.49	20.00	
		36	0	18.58	18.66	18.56	20.00	
		36	18	18.44	18.39	18.47	20.00	
		36	39	18.43	18.37	18.41	20.00	
		75	0	18.65	18.56	18.59	20.00	
	64QAM	1	0	18.45	18.41	18.35	20.00	
		1	38	18.58	18.52	18.60	20.00	
		1	74	18.60	18.43	18.53	20.00	
		36	0	18.39	18.39	18.37	20.00	
		36	18	18.62	18.50	18.46	20.00	
		36	39	18.46	18.50	18.51	20.00	
		75	0	18.31	18.29	18.28	20.00	
	256QAM	1	0	18.02	17.92	17.95	19.50	
		1	38	18.05	18.03	17.96	19.50	
		1	74	18.04	18.02	17.98	19.50	
		36	0	17.94	18.01	18.04	19.50	
		36	18	17.99	18.01	18.04	19.50	
		36	39	17.98	18.04	18.04	19.50	
		75	0	18.01	18.05	17.97	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20050/1720	20175/1732.5	20300/1745	
	20MHz	QPSK	1	0	18.44	18.47	18.46	20.00
1			50	18.70	18.59	18.63	20.00	
1			99	18.88	18.66	18.64	20.00	
50			0	18.48	18.48	18.49	20.00	
50			25	18.59	18.47	18.41	20.00	
50			50	18.55	18.55	18.48	20.00	
100			0	18.54	18.37	18.51	20.00	
16QAM		1	0	18.59	18.57	18.53	20.00	
		1	50	18.36	18.36	18.31	20.00	
		1	99	18.49	18.47	18.48	20.00	
		50	0	18.52	18.43	18.50	20.00	
		50	25	18.52	18.45	18.54	20.00	
		50	50	18.47	18.50	18.41	20.00	
		100	0	18.49	18.34	18.46	20.00	
64QAM		1	0	18.68	18.60	18.60	20.00	
		1	50	18.31	18.32	18.27	20.00	



		1	99	18.48	18.40	18.42	20.00
		50	0	18.54	18.43	18.49	20.00
		50	25	18.54	18.38	18.46	20.00
		50	50	18.47	18.44	18.49	20.00
		100	0	18.32	18.34	18.29	20.00
	256QAM	1	0	17.92	18.03	17.95	19.50
		1	50	17.95	17.99	18.03	19.50
		1	99	18.04	17.99	18.02	19.50
		50	0	17.93	18.04	17.92	19.50
		50	25	18.04	18.04	17.93	19.50
		50	50	17.92	17.94	17.98	19.50
		100	0	17.95	18.03	18.03	19.50

LTE FDD Band 4 ANT 3 Level6&7&8				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	17.99	17.80	17.81	19.50
		1	2	17.82	17.81	17.78	19.50
		1	5	17.92	18.00	17.97	19.50
		3	0	18.19	18.10	18.14	19.50
		3	2	17.89	17.92	17.97	19.50
		3	3	18.14	18.06	18.13	19.50
		6	0	18.00	17.95	18.00	19.50
	16QAM	1	0	17.83	17.80	17.84	19.50
		1	2	17.85	17.84	17.74	19.50
		1	5	17.95	17.81	17.90	19.50
		3	0	18.08	17.98	18.05	19.50
		3	2	18.13	18.03	18.15	19.50
		3	3	18.00	18.01	18.02	19.50
		6	0	18.12	17.98	17.96	19.50
	64QAM	1	0	18.03	17.88	17.87	19.50
		1	2	18.08	18.09	18.12	19.50
		1	5	17.98	17.95	17.92	19.50
		3	0	17.91	17.86	17.82	19.50
		3	2	17.89	17.88	17.86	19.50
		3	3	18.12	17.93	18.01	19.50
		6	0	17.95	17.82	17.81	19.50
	256QAM	1	0	17.96	17.98	17.99	19.50
		1	2	18.03	17.94	18.03	19.50
		1	5	17.98	18.01	18.02	19.50
		3	0	17.96	17.95	17.99	19.50
		3	2	17.97	17.97	18.02	19.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				19965/1711.5	20175/1732.5	20385/1753.5		
3MHz	QPSK	3	3	17.96	18.01	18.02	19.50	
		6	0	18.03	17.95	18.02	19.50	
		1	0	18.02	17.98	17.99	19.50	
		1	7	17.85	17.83	17.85	19.50	
		1	14	17.91	17.83	17.98	19.50	
		8	0	18.06	17.97	17.91	19.50	
		8	4	18.13	18.10	18.09	19.50	
	16QAM	8	7	18.02	18.04	17.97	19.50	
		15	0	18.09	18.05	18.04	19.50	
		1	0	17.92	17.90	17.86	19.50	
		1	7	17.85	17.81	17.92	19.50	
		1	14	18.18	18.06	18.05	19.50	
		8	0	18.16	18.04	17.99	19.50	
		8	4	18.09	18.11	18.09	19.50	
	64QAM	8	7	17.86	17.93	17.86	19.50	
		15	0	17.91	17.92	17.78	19.50	
		1	0	17.92	17.90	17.91	19.50	
		1	7	17.89	17.84	17.85	19.50	
		1	14	18.03	17.97	18.06	19.50	
		8	0	18.11	18.11	18.06	19.50	
		8	4	17.95	17.91	17.90	19.50	
	256QAM	8	7	17.92	17.88	17.86	19.50	
		15	0	18.05	18.05	18.00	19.50	
		1	0	18.01	17.99	18.04	19.50	
		1	7	17.99	18.02	17.95	19.50	
		1	14	17.93	18.04	17.98	19.50	
		8	0	18.04	17.96	17.99	19.50	
		8	4	17.99	18.02	18.00	19.50	
	5MHz	QPSK	8	7	17.95	17.97	17.98	19.50
			15	0	17.98	18.00	18.04	19.50
16QAM	1		0	18.07	18.08	18.05	19.50	
	1		13	17.94	17.88	17.98	19.50	



		1	24	17.99	17.96	17.86	19.50	
		12	0	18.15	18.04	18.02	19.50	
		12	6	18.10	18.07	18.04	19.50	
		12	13	18.17	18.07	17.97	19.50	
		25	0	18.00	17.98	17.93	19.50	
	64QAM	1	0	18.10	18.07	17.97	19.50	
		1	13	18.08	18.05	18.05	19.50	
		1	24	17.90	17.91	17.94	19.50	
		12	0	17.91	17.98	18.00	19.50	
		12	6	17.94	17.81	17.82	19.50	
		12	13	17.86	17.77	17.86	19.50	
		25	0	18.01	18.02	18.01	19.50	
	256QAM	1	0	18.02	18.01	18.01	19.50	
		1	13	17.96	17.93	17.93	19.50	
		1	24	18.03	18.00	17.96	19.50	
		12	0	17.97	17.92	17.99	19.50	
		12	6	18.04	18.01	18.04	19.50	
		12	13	17.97	17.97	17.99	19.50	
		25	0	18.02	18.00	18.00	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	18.01	18.00	18.07	19.50	
		1	25	18.02	18.04	17.96	19.50	
		1	49	18.08	18.05	18.09	19.50	
		25	0	17.99	17.96	18.01	19.50	
		25	13	17.79	17.87	17.84	19.50	
		25	25	18.12	18.04	18.01	19.50	
		50	0	18.19	18.13	18.14	19.50	
	16QAM	1	0	18.08	18.01	18.08	19.50	
		1	25	18.21	18.07	18.13	19.50	
		1	49	18.03	18.06	17.98	19.50	
		25	0	18.08	18.02	17.99	19.50	
		25	13	17.98	17.90	17.81	19.50	
		25	25	18.08	18.03	18.13	19.50	
		50	0	18.01	17.96	17.90	19.50	
	64QAM	1	0	17.98	17.91	17.81	19.50	
		1	25	18.17	18.04	18.14	19.50	
		1	49	18.18	18.13	18.11	19.50	
		25	0	17.95	17.97	17.88	19.50	
		25	13	17.99	18.05	18.03	19.50	
		25	25	17.92	17.91	17.88	19.50	
		50	0	18.07	18.03	18.01	19.50	
	256QAM	1	0	17.94	17.95	17.96	19.50	



		1	25	17.94	17.99	17.95	19.50
		1	49	18.01	18.00	17.94	19.50
		25	0	17.95	17.96	18.04	19.50
		25	13	18.00	18.01	17.99	19.50
		25	25	18.04	17.98	17.98	19.50
		50	0	17.98	17.99	18.00	19.50
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	18.06	18.12	18.08	19.50
		1	38	18.05	17.96	17.96	19.50
		1	74	17.95	18.00	17.99	19.50
		36	0	17.94	17.85	17.83	19.50
		36	18	18.08	18.01	17.97	19.50
		36	39	17.84	17.79	17.84	19.50
		75	0	17.93	17.92	17.91	19.50
	16QAM	1	0	17.98	17.98	17.93	19.50
		1	38	18.08	18.10	18.02	19.50
		1	74	18.15	18.03	18.06	19.50
		36	0	18.06	18.05	18.01	19.50
		36	18	17.88	17.84	17.87	19.50
		36	39	18.07	18.04	18.07	19.50
		75	0	17.85	17.92	17.93	19.50
	64QAM	1	0	18.11	18.02	18.05	19.50
		1	38	18.13	18.01	18.01	19.50
		1	74	18.10	18.13	18.11	19.50
		36	0	18.04	17.97	18.12	19.50
		36	18	17.93	17.87	17.95	19.50
		36	39	18.09	18.03	17.96	19.50
		75	0	18.02	17.95	18.04	19.50
	256QAM	1	0	18.01	18.03	17.99	19.50
		1	38	17.97	17.92	18.02	19.50
		1	74	17.92	17.96	18.01	19.50
		36	0	18.00	17.99	18.05	19.50
		36	18	17.94	18.04	17.97	19.50
		36	39	18.04	17.97	17.94	19.50
		75	0	17.99	18.00	18.00	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	18.23	18.12	18.03	19.50
		1	50	17.98	17.87	17.89	19.50
		1	99	18.06	17.99	18.08	19.50
		50	0	18.19	18.11	18.14	19.50
		50	25	18.03	17.97	18.03	19.50



		50	50	18.03	17.97	18.01	19.50
		100	0	18.02	17.94	17.98	19.50
	16QAM	1	0	18.11	18.05	17.99	19.50
		1	50	18.05	18.07	18.10	19.50
		1	99	18.11	17.92	17.95	19.50
		50	0	18.01	17.99	17.87	19.50
		50	25	18.08	18.02	18.07	19.50
		50	50	18.09	18.04	18.14	19.50
		100	0	17.99	17.99	17.92	19.50
	64QAM	1	0	17.99	17.96	17.94	19.50
		1	50	17.96	17.81	17.85	19.50
		1	99	17.92	17.90	17.84	19.50
		50	0	17.93	17.81	17.88	19.50
		50	25	17.86	17.82	17.75	19.50
		50	50	18.03	17.93	18.05	19.50
		100	0	17.99	18.02	18.03	19.50
	256QAM	1	0	17.95	17.94	18.03	19.50
		1	50	18.03	17.92	17.92	19.50
		1	99	17.95	18.04	17.96	19.50
		50	0	18.03	17.94	17.99	19.50
		50	25	17.99	18.03	17.96	19.50
		50	50	17.94	17.99	17.95	19.50
		100	0	17.96	17.97	18.02	19.50

LTE FDD Band 4				Conducted Power(dBm)			Tune-up Limit
ANT 4 Full Power&Level 1&2&3&4&5&6&7&8				Channel/Frequency (MHz)			
Bandwidth	Modulation	RB size	RB offset	19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	22.97	22.94	22.82	24.50
		1	2	23.05	22.99	22.91	24.50
		1	5	22.98	22.96	22.84	24.50
		3	0	23.00	22.91	22.87	24.50
		3	2	23.03	22.97	22.90	24.50
		3	3	23.03	22.91	22.89	24.50
		6	0	22.03	22.05	21.95	23.50
	16QAM	1	0	22.07	22.14	22.31	23.50
		1	2	22.15	22.18	22.33	23.50
		1	5	22.09	22.12	22.29	23.50
		3	0	22.23	22.04	22.08	23.50
		3	2	22.26	22.12	22.17	23.50
		3	3	22.25	22.09	22.11	23.50
	64QAM	6	0	21.22	21.20	20.85	22.50
		1	0	21.04	21.29	21.26	22.50



		1	2	21.29	21.13	21.26	22.50
		1	5	21.10	21.16	21.37	22.50
		3	0	21.17	21.07	21.01	22.50
		3	2	21.34	21.07	21.10	22.50
		3	3	21.19	21.12	21.23	22.50
		6	0	20.32	20.26	19.86	21.50
	256QAM	1	0	17.84	17.91	17.91	19.50
		1	2	18.10	17.82	17.82	19.50
		1	5	17.94	18.06	17.68	19.50
		3	0	18.15	18.12	17.77	19.50
		3	2	17.98	17.98	17.94	19.50
		3	3	18.04	18.05	17.85	19.50
			6	0	18.04	18.12	17.81
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	23.02	22.94	22.90	24.50
		1	7	23.11	23.12	22.99	24.50
		1	14	23.01	23.06	22.95	24.50
		8	0	22.14	22.03	22.01	23.50
		8	4	22.17	22.17	22.01	23.50
		8	7	22.14	22.09	22.02	23.50
		15	0	22.13	22.12	22.05	23.50
	16QAM	1	0	22.07	22.41	22.05	23.50
		1	7	22.11	22.61	22.07	23.50
		1	14	22.05	22.53	22.05	23.50
		8	0	21.20	21.10	21.06	22.50
		8	4	21.26	21.23	21.10	22.50
		8	7	21.22	21.20	21.08	22.50
		15	0	21.17	21.16	20.98	22.50
	64QAM	1	0	21.19	21.49	20.99	22.50
		1	7	21.14	21.68	21.20	22.50
		1	14	20.97	21.47	20.96	22.50
		8	0	20.13	20.17	20.06	21.50
		8	4	20.34	20.21	20.12	21.50
		8	7	20.17	20.11	20.13	21.50
		15	0	20.17	20.08	19.92	21.50
	256QAM	1	0	17.87	17.78	17.76	19.50
		1	7	18.01	18.04	18.10	19.50
		1	14	18.05	17.89	17.82	19.50
		8	0	18.03	17.98	18.02	19.50
		8	4	18.16	18.18	17.94	19.50
		8	7	18.08	18.25	17.92	19.50
		15	0	18.12	18.08	17.86	19.50



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	23.06	22.96	22.94	24.50		
		1	13	23.07	23.07	22.95	24.50		
		1	24	22.99	23.07	22.91	24.50		
		12	0	22.09	22.06	22.00	23.50		
		12	6	22.11	22.16	22.01	23.50		
		12	13	22.14	22.08	21.99	23.50		
		25	0	22.12	22.06	21.98	23.50		
	16QAM	1	0	22.33	22.53	22.23	23.50		
		1	13	22.33	22.63	22.21	23.50		
		1	24	22.29	22.67	22.18	23.50		
		12	0	21.20	21.20	21.08	22.50		
		12	6	21.24	21.25	21.11	22.50		
		12	13	21.22	21.28	21.09	22.50		
		25	0	21.13	21.14	20.99	22.50		
	64QAM	1	0	21.45	21.60	21.19	22.50		
		1	13	21.48	21.77	21.32	22.50		
		1	24	21.42	21.78	21.10	22.50		
		12	0	20.25	20.15	20.04	21.50		
		12	6	20.19	20.23	20.15	21.50		
		12	13	20.30	20.19	20.19	21.50		
		25	0	20.09	20.17	20.00	21.50		
	256QAM	1	0	18.15	17.84	18.05	19.50		
		1	13	17.96	17.95	18.03	19.50		
		1	24	17.86	18.08	17.84	19.50		
		12	0	18.09	17.95	18.09	19.50		
		12	6	18.02	18.03	18.10	19.50		
		12	13	18.03	18.22	18.01	19.50		
		25	0	18.25	18.01	17.90	19.50		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit		
10MHz	QPSK	1	0	23.04	22.96	22.95	24.50		
		1	25	22.95	22.94	22.94	24.50		
		1	49	22.98	23.00	22.92	24.50		
		25	0	22.07	22.02	21.93	23.50		
		25	13	22.11	22.03	21.92	23.50		
		25	25	22.08	22.15	21.98	23.50		
		50	0	22.15	22.04	21.94	23.50		
	16QAM	1	0	22.09	22.47	21.98	23.50		
		1	25	21.94	22.50	21.98	23.50		
		1	49	21.99	22.47	21.94	23.50		
		25	0	21.13	21.05	21.03	22.50		
		Bandwidth	Modulation	RB size	RB offset	20000/1715	20175/1732.5	20350/1750	Tune-up Limit



		25	13	21.13	21.06	21.04	22.50	
		25	25	21.17	21.17	21.13	22.50	
		50	0	21.09	21.10	20.90	22.50	
	64QAM		1	0	21.00	21.38	20.97	22.50
			1	25	21.01	21.46	20.95	22.50
			1	49	21.13	21.42	21.05	22.50
			25	0	20.19	20.11	20.16	21.50
			25	13	20.17	20.13	20.13	21.50
			25	25	20.29	20.25	20.11	21.50
			50	0	20.03	20.02	19.86	21.50
	256QAM		1	0	17.94	17.94	17.87	19.50
			1	25	17.98	17.85	17.98	19.50
			1	49	17.96	17.97	17.77	19.50
			25	0	17.99	17.97	18.14	19.50
			25	13	18.15	17.89	18.14	19.50
			25	25	17.91	17.96	18.09	19.50
			50	0	17.99	17.94	18.09	19.50
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	23.07	23.03	23.03	24.50	
		1	38	22.88	22.90	22.79	24.50	
		1	74	22.84	22.93	22.80	24.50	
		36	0	22.07	22.04	21.99	23.50	
		36	18	22.03	21.96	22.00	23.50	
		36	39	22.02	22.00	21.97	23.50	
		75	0	22.02	21.95	21.88	23.50	
	16QAM		1	0	22.60	22.04	22.45	23.50
			1	38	22.35	21.95	22.27	23.50
			1	74	22.35	22.05	22.23	23.50
			36	0	21.04	21.03	21.03	22.50
			36	18	21.05	21.00	21.04	22.50
			36	39	20.99	21.02	20.96	22.50
			75	0	21.04	20.95	20.99	22.50
	64QAM		1	0	21.69	21.00	21.39	22.50
			1	38	21.30	21.00	21.38	22.50
			1	74	21.32	21.06	21.34	22.50
			36	0	19.96	19.93	20.14	21.50
			36	18	20.06	20.05	19.96	21.50
			36	39	20.09	20.06	20.03	21.50
			75	0	20.00	20.02	20.08	21.50
	256QAM		1	0	18.17	18.11	17.95	19.50
			1	38	17.85	17.88	17.76	19.50
			1	74	17.94	17.82	17.69	19.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20050/1720	20175/1732.5	20300/1745		
20MHz	QPSK	36	0	18.24	17.98	18.05	19.50	
		36	18	17.88	17.97	17.81	19.50	
		36	39	17.84	18.11	17.95	19.50	
		75	0	18.09	18.23	17.95	19.50	
	16QAM	16QAM	1	0	23.06	23.11	22.96	24.50
			1	50	22.91	22.96	22.78	24.50
			1	99	22.95	23.00	22.75	24.50
			50	0	22.12	22.08	21.99	23.50
			50	25	22.11	22.00	22.03	23.50
			50	50	22.04	22.04	21.91	23.50
			100	0	22.10	21.98	21.94	23.50
	64QAM	64QAM	1	0	22.65	22.62	22.45	23.50
			1	50	22.48	22.35	22.28	23.50
			1	99	22.50	22.60	22.25	23.50
			50	0	21.10	21.08	20.98	22.50
			50	25	21.15	21.01	20.99	22.50
			50	50	21.03	21.06	20.92	22.50
			100	0	21.15	21.02	20.93	22.50
	256QAM	256QAM	1	0	21.74	21.72	21.55	22.50
			1	50	21.60	21.47	21.42	22.50
			1	99	21.60	21.66	21.25	22.50
			50	0	20.15	20.10	20.03	21.50
			50	25	20.07	20.07	19.93	21.50
			50	50	20.03	20.14	19.89	21.50
			100	0	20.29	19.98	20.01	21.50
	256QAM	256QAM	1	0	17.92	18.06	17.99	19.50
			1	50	17.95	17.85	17.77	19.50
			1	99	17.95	18.00	17.65	19.50
			50	0	18.03	18.20	18.12	19.50
			50	25	17.93	18.07	17.96	19.50
			50	50	17.89	18.07	17.83	19.50
			100	0	18.26	18.21	18.08	19.50

LTE FDD Band 5 ANT 0 Full Power&Level5				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	23.25	23.14	23.00	24.80
		1	2	23.25	23.22	23.08	24.80
		1	5	23.19	23.13	22.97	24.80
		3	0	23.21	23.14	23.04	24.80



	16QAM	3	2	23.23	23.22	23.11	24.80
		3	3	23.21	23.16	23.05	24.80
		6	0	22.30	22.23	22.09	23.80
		1	0	22.41	22.57	22.18	23.80
		1	2	22.48	22.69	22.20	23.80
		1	5	22.41	22.62	22.15	23.80
		3	0	22.36	22.41	22.30	23.80
		3	2	22.41	22.49	22.36	23.80
		3	3	22.35	22.40	22.27	23.80
	6	0	21.42	21.12	21.29	22.80	
	64QAM	1	0	21.42	21.58	21.26	22.80
		1	2	21.40	21.68	21.31	22.80
		1	5	21.46	21.64	21.26	22.80
		3	0	21.36	21.38	21.36	22.80
		3	2	21.55	21.56	21.33	22.80
		3	3	21.36	21.39	21.32	22.80
		6	0	20.53	20.02	20.44	21.80
	256QAM	1	0	18.28	18.18	18.00	19.80
		1	2	18.26	18.24	18.00	19.80
		1	5	18.14	18.15	18.02	19.80
		3	0	18.19	18.24	18.15	19.80
		3	2	18.28	18.26	18.20	19.80
		3	3	18.35	18.24	18.07	19.80
		6	0	18.39	18.06	17.97	19.80
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	23.45	23.31	23.24	24.80
		1	7	23.38	23.37	23.18	24.80
		1	14	23.30	23.25	23.06	24.80
		8	0	22.43	22.36	22.22	23.80
		8	4	22.44	22.42	22.20	23.80
		8	7	22.39	22.33	22.15	23.80
		15	0	22.46	22.32	22.25	23.80
	16QAM	1	0	22.42	22.76	22.33	23.80
		1	7	22.38	22.78	22.32	23.80
		1	14	22.22	22.69	22.20	23.80
		8	0	21.59	21.43	21.27	22.80
		8	4	21.54	21.48	21.27	22.80
		8	7	21.55	21.41	21.21	22.80
		15	0	21.47	21.37	21.21	22.80
	64QAM	1	0	21.36	21.76	21.39	22.80
		1	7	21.50	21.86	21.35	22.80
		1	14	21.34	21.76	21.13	22.80



		8	0	20.66	20.34	20.38	21.80
		8	4	20.50	20.59	20.31	21.80
		8	7	20.56	20.43	20.26	21.80
		15	0	20.51	20.31	20.13	21.80
	256QAM	1	0	18.39	18.22	18.27	19.80
		1	7	18.48	18.44	18.24	19.80
		1	14	18.24	18.26	17.90	19.80
		8	0	18.42	18.33	18.27	19.80
		8	4	18.55	18.54	18.27	19.80
		8	7	18.46	18.29	18.13	19.80
15	0	18.64	18.29	18.33	19.80		
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	23.45	23.39	23.24	24.80
		1	13	23.33	23.38	23.20	24.80
		1	24	23.28	23.33	23.13	24.80
		12	0	22.50	22.39	22.22	23.80
		12	6	22.46	22.34	22.19	23.80
		12	13	22.41	22.33	22.16	23.80
		25	0	22.46	22.32	22.19	23.80
	16QAM	1	0	22.72	22.94	22.42	23.80
		1	13	22.56	22.90	22.35	23.80
		1	24	22.57	22.86	22.37	23.80
		12	0	21.58	21.53	21.29	22.80
		12	6	21.51	21.48	21.27	22.80
		12	13	21.49	21.47	21.26	22.80
		25	0	21.45	21.41	21.16	22.80
	64QAM	1	0	21.73	21.90	21.32	22.80
		1	13	21.60	21.86	21.33	22.80
		1	24	21.53	21.79	21.35	22.80
		12	0	20.66	20.54	20.21	21.80
		12	6	20.44	20.54	20.38	21.80
		12	13	20.52	20.38	20.22	21.80
		25	0	20.56	20.46	20.27	21.80
	256QAM	1	0	18.47	18.30	18.14	19.80
		1	13	18.22	18.22	18.23	19.80
		1	24	18.27	18.34	18.02	19.80
		12	0	18.52	18.59	18.19	19.80
		12	6	18.49	18.55	18.25	19.80
		12	13	18.31	18.52	18.08	19.80
		25	0	18.41	18.52	18.18	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	



10MHz	QPSK	1	0	23.32	23.23	23.21	24.80
		1	25	23.24	23.17	23.13	24.80
		1	49	23.12	23.13	23.11	24.80
		25	0	22.23	22.32	22.17	23.80
		25	13	22.39	22.32	22.25	23.80
		25	25	22.33	22.31	22.17	23.80
		50	0	22.41	22.30	22.26	23.80
	16QAM	1	0	22.33	22.75	22.31	23.80
		1	25	22.24	22.75	22.18	23.80
		1	49	22.18	22.64	22.13	23.80
		25	0	21.37	21.40	21.31	22.80
		25	13	21.42	21.34	21.36	22.80
		25	25	21.42	21.44	21.30	22.80
		50	0	21.40	21.33	21.30	22.80
	64QAM	1	0	21.38	21.67	21.46	22.80
		1	25	21.30	21.90	21.28	22.80
		1	49	21.14	21.64	21.14	22.80
		25	0	20.52	20.36	20.28	21.80
		25	13	20.53	20.34	20.31	21.80
		25	25	20.51	20.43	20.21	21.80
		50	0	20.47	20.37	20.24	21.80
	256QAM	1	0	18.21	18.32	18.12	19.80
		1	25	18.11	18.12	18.01	19.80
		1	49	18.22	18.01	18.05	19.80
		25	0	18.40	18.34	18.28	19.80
		25	13	18.31	18.26	18.15	19.80
		25	25	18.28	18.27	18.14	19.80
		50	0	18.46	18.26	18.36	19.80

LTE FDD Band 5 ANT 0 Level 1				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	21.34	21.30	21.26	22.80
		1	2	21.33	21.16	21.13	22.80
		1	5	21.42	21.34	21.35	22.80
		3	0	21.51	21.44	21.43	22.80
		3	2	21.30	21.17	21.26	22.80
		3	3	21.55	21.50	21.59	22.80
		6	0	21.43	21.35	21.39	22.80
	16QAM	1	0	21.32	21.19	21.28	22.80
		1	2	21.38	21.33	21.36	22.80
		1	5	21.50	21.39	21.44	22.80



		3	0	21.32	21.24	21.25	22.80
		3	2	21.49	21.45	21.49	22.80
		3	3	21.36	21.40	21.30	22.80
		6	0	21.45	21.47	21.35	22.80
	64QAM	1	0	21.37	21.46	21.38	22.80
		1	2	21.47	21.36	21.43	22.80
		1	5	21.26	21.24	21.20	22.80
		3	0	21.40	21.42	21.45	22.80
		3	2	21.29	21.16	21.26	22.80
		3	3	21.31	21.32	21.25	22.80
		6	0	20.28	20.31	20.35	21.80
	256QAM	1	0	18.11	18.02	17.95	19.80
		1	2	18.29	18.24	18.10	19.80
		1	5	18.08	18.18	17.90	19.80
		3	0	18.30	18.25	18.04	19.80
		3	2	18.44	18.36	18.07	19.80
		3	3	18.37	18.22	18.11	19.80
		6	0	18.24	18.17	17.95	19.80
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
20415/825.5					20525/836.5	20635/847.5	
3MHz	QPSK	1	0	21.51	21.35	21.45	22.80
		1	7	21.49	21.47	21.42	22.80
		1	14	21.50	21.35	21.41	22.80
		8	0	21.43	21.39	21.29	22.80
		8	4	21.38	21.40	21.32	22.80
		8	7	21.45	21.36	21.41	22.80
		15	0	21.29	21.37	21.34	22.80
	16QAM	1	0	21.31	21.26	21.20	22.80
		1	7	21.51	21.55	21.44	22.80
		1	14	21.53	21.55	21.58	22.80
		8	0	21.33	21.27	21.28	22.80
		8	4	21.58	21.43	21.51	22.80
		8	7	21.42	21.32	21.32	22.80
		15	0	21.42	21.42	21.45	22.80
	64QAM	1	0	21.47	21.54	21.40	22.80
		1	7	21.31	21.28	21.35	22.80
		1	14	21.45	21.33	21.39	22.80
		8	0	21.36	21.26	21.28	21.80
		8	4	21.41	21.43	21.36	21.80
		8	7	21.32	21.24	21.27	21.80
		15	0	20.32	20.33	20.20	21.80
	256QAM	1	0	18.55	18.36	18.29	19.80
		1	7	18.21	18.28	18.19	19.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20425/826.5	20525/836.5	20625/846.5		
		1	14	18.35	18.09	18.14	19.80	
		8	0	18.47	18.49	18.38	19.80	
		8	4	18.53	18.55	18.12	19.80	
		8	7	18.31	18.28	18.09	19.80	
		15	0	18.43	18.48	18.26	19.80	
5MHz	QPSK	1	0	21.49	21.44	21.46	22.80	
		1	13	21.63	21.53	21.54	22.80	
		1	24	21.47	21.54	21.41	22.80	
		12	0	21.39	21.40	21.38	22.80	
		12	6	21.36	21.39	21.30	22.80	
		12	13	21.50	21.54	21.52	22.80	
		25	0	21.51	21.44	21.49	22.80	
	16QAM	1	0	21.44	21.38	21.29	22.80	
		1	13	21.37	21.29	21.18	22.80	
		1	24	21.43	21.25	21.33	22.80	
		12	0	21.47	21.41	21.38	22.80	
		12	6	21.45	21.41	21.35	22.80	
		12	13	21.52	21.45	21.44	22.80	
		25	0	21.45	21.40	21.38	22.80	
	64QAM	1	0	21.28	21.24	21.23	22.80	
		1	13	21.35	21.20	21.32	22.80	
		1	24	21.25	21.33	21.20	22.80	
		12	0	21.45	21.41	21.30	21.80	
		12	6	21.21	21.17	21.18	21.80	
		12	13	21.46	21.37	21.37	21.80	
		25	0	20.44	20.46	20.43	21.80	
	256QAM	1	0	18.54	18.31	18.07	19.80	
		1	13	18.16	18.35	18.05	19.80	
		1	24	18.19	18.22	18.01	19.80	
		12	0	18.45	18.59	18.39	19.80	
		12	6	18.31	18.59	18.37	19.80	
		12	13	18.40	18.42	18.17	19.80	
		25	0	18.63	18.59	18.44	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	21.60	21.56	21.66	22.80	
		1	25	21.56	21.67	21.56	22.80	
		1	49	21.55	21.52	21.36	22.80	
		25	0	21.61	21.53	21.53	22.80	
		25	13	21.35	21.26	21.30	22.80	
		25	25	21.36	21.24	21.21	22.80	



	16QAM	50	0	21.53	21.51	21.50	22.80
		1	0	21.57	21.30	21.34	22.80
		1	25	21.50	21.54	21.49	22.80
		1	49	21.46	21.35	21.25	22.80
		25	0	21.48	21.43	21.47	22.80
		25	13	21.33	21.27	21.24	22.80
		25	25	21.42	21.45	21.52	22.80
		50	0	21.64	21.53	21.58	22.80
	64QAM	1	0	21.43	21.52	21.59	22.80
		1	25	21.51	21.54	21.45	22.80
		1	49	21.24	21.24	21.22	22.80
		25	0	21.64	21.54	21.44	21.80
		25	13	21.38	21.28	21.33	21.80
		25	25	21.38	21.35	21.22	21.80
		50	0	20.49	20.41	20.43	21.80
	256QAM	1	0	18.38	18.26	18.19	19.80
		1	25	18.27	18.18	18.14	19.80
		1	49	18.10	18.02	18.11	19.80
		25	0	18.36	18.41	18.33	19.80
		25	13	18.19	18.12	18.23	19.80
		25	25	18.23	18.14	18.27	19.80
		50	0	18.31	18.24	18.15	19.80

LTE FDD Band 5 ANT 0 Level 2&3&4				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	17.57	17.50	17.44	18.80
		1	2	17.44	17.31	17.30	18.80
		1	5	17.51	17.35	17.40	18.80
		3	0	17.29	17.19	17.21	18.80
		3	2	17.47	17.36	17.42	18.80
		3	3	17.49	17.51	17.47	18.80
		6	0	17.24	17.29	17.24	18.80
	16QAM	1	0	17.51	17.48	17.52	18.80
		1	2	17.25	17.28	17.23	18.80
		1	5	17.40	17.34	17.37	18.80
		3	0	17.32	17.39	17.33	18.80
		3	2	17.46	17.44	17.45	18.80
		3	3	17.30	17.23	17.15	18.80
	64QAM	6	0	17.49	17.46	17.49	18.80
		1	0	17.34	17.28	17.35	18.80
		1	2	17.26	17.18	17.29	18.80



		1	5	17.34	17.37	17.32	18.80	
		3	0	17.39	17.33	17.32	18.80	
		3	2	17.49	17.37	17.41	18.80	
		3	3	17.48	17.44	17.41	18.80	
		6	0	17.49	17.51	17.45	18.80	
	256QAM	1	0	17.57	17.49	17.36	18.80	
		1	2	17.41	17.23	17.20	18.80	
		1	5	17.51	17.35	17.32	18.80	
		3	0	17.19	17.10	17.19	18.80	
		3	2	17.46	17.31	17.41	18.80	
		3	3	17.40	17.43	17.44	18.80	
		6	0	17.17	17.26	17.18	18.80	
	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	17.26	17.20	17.23	18.80	
		1	7	17.36	17.31	17.20	18.80	
		1	14	17.58	17.57	17.59	18.80	
		8	0	17.45	17.42	17.39	18.80	
		8	4	17.24	17.18	17.14	18.80	
		8	7	17.47	17.50	17.41	18.80	
		15	0	17.40	17.35	17.45	18.80	
	16QAM	1	0	17.33	17.32	17.37	18.80	
		1	7	17.57	17.50	17.52	18.80	
		1	14	17.50	17.43	17.37	18.80	
		8	0	17.46	17.45	17.47	18.80	
		8	4	17.45	17.36	17.33	18.80	
		8	7	17.46	17.33	17.34	18.80	
		15	0	17.57	17.51	17.56	18.80	
	64QAM	1	0	17.30	17.33	17.29	18.80	
		1	7	17.40	17.32	17.21	18.80	
		1	14	17.23	17.32	17.28	18.80	
		8	0	17.34	17.31	17.20	18.80	
		8	4	17.32	17.32	17.25	18.80	
		8	7	17.32	17.33	17.40	18.80	
		15	0	17.37	17.30	17.37	18.80	
	256QAM	1	0	17.15	17.18	17.13	18.80	
		1	7	17.30	17.28	17.10	18.80	
		1	14	17.52	17.51	17.48	18.80	
		8	0	17.42	17.38	17.37	18.80	
		8	4	17.23	17.10	17.13	18.80	
		8	7	17.42	17.48	17.36	18.80	
		15	0	17.32	17.29	17.41	18.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up



				20425/826.5	20525/836.5	20625/846.5	Limit
5MHz	QPSK	1	0	17.39	17.35	17.36	18.80
		1	13	17.52	17.39	17.36	18.80
		1	24	17.31	17.13	17.21	18.80
		12	0	17.42	17.36	17.32	18.80
		12	6	17.37	17.20	17.22	18.80
		12	13	17.40	17.34	17.37	18.80
		25	0	17.18	17.26	17.20	18.80
	16QAM	1	0	17.31	17.21	17.22	18.80
		1	13	17.61	17.47	17.43	18.80
		1	24	17.35	17.29	17.25	18.80
		12	0	17.54	17.54	17.54	18.80
		12	6	17.47	17.48	17.35	18.80
		12	13	17.45	17.48	17.44	18.80
		25	0	17.32	17.34	17.29	18.80
	64QAM	1	0	17.38	17.36	17.35	18.80
		1	13	17.32	17.28	17.26	18.80
		1	24	17.53	17.40	17.46	18.80
		12	0	17.59	17.50	17.44	18.80
		12	6	17.32	17.19	17.29	18.80
		12	13	17.51	17.38	17.43	18.80
		25	0	17.49	17.38	17.44	18.80
	256QAM	1	0	17.38	17.34	17.33	18.80
		1	13	17.48	17.29	17.35	18.80
		1	24	17.25	17.12	17.14	18.80
		12	0	17.37	17.33	17.28	18.80
		12	6	17.29	17.12	17.13	18.80
		12	13	17.35	17.31	17.33	18.80
		25	0	17.16	17.21	17.19	18.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	17.59	17.63	17.61	18.80
		1	25	17.62	17.44	17.49	18.80
		1	49	17.59	17.47	17.56	18.80
		25	0	17.22	17.27	17.26	18.80
		25	13	17.37	17.31	17.32	18.80
		25	25	17.42	17.34	17.34	18.80
		50	0	17.40	17.33	17.34	18.80
	16QAM	1	0	17.62	17.60	17.41	18.80
		1	25	17.58	17.61	17.51	18.80
		1	49	17.28	17.28	17.46	18.80
		25	0	17.54	17.39	17.42	18.80
		25	13	17.33	17.37	17.40	18.80



		25	25	17.36	17.41	17.31	18.80
		50	0	17.62	17.56	17.52	18.80
	64QAM	1	0	17.51	17.52	17.70	18.80
			25	17.29	17.44	17.43	18.80
		1	49	17.44	17.30	17.56	18.80
			25	0	17.49	17.41	17.42
		25	13	17.29	17.24	17.17	18.80
			25	25	17.21	17.17	17.13
		50	0	17.49	17.57	17.51	18.80
			0	17.51	17.63	17.52	18.80
	256QAM	1	25	17.60	17.35	17.42	18.80
			49	17.54	17.37	17.46	18.80
		25	0	17.15	17.21	17.25	18.80
			13	17.32	17.29	17.26	18.80
		25	25	17.35	17.28	17.33	18.80
			0	17.38	17.33	17.25	18.80

LTE FDD Band 5 ANT 0 Level 6&7&8				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	22.33	22.40	22.39	23.80
		1	2	22.34	22.20	22.27	23.80
		1	5	22.28	22.20	22.19	23.80
		3	0	22.24	22.31	22.31	23.80
		3	2	22.25	22.26	22.27	23.80
		3	3	22.48	22.34	22.33	23.80
		6	0	22.21	22.23	22.00	23.80
	16QAM	1	0	22.37	22.55	22.18	23.80
		1	2	22.48	22.62	22.09	23.80
		1	5	22.34	22.60	22.15	23.80
		3	0	22.25	22.37	22.30	23.80
		3	2	22.41	22.38	22.34	23.80
		3	3	22.24	22.36	22.25	23.80
		6	0	21.38	21.08	21.20	22.80
	64QAM	1	0	21.40	21.49	21.17	22.80
		1	2	21.29	21.68	21.31	22.80
		1	5	21.40	21.60	21.17	22.80
		3	0	21.30	21.38	21.25	22.80
		3	2	21.49	21.47	21.22	22.80
		3	3	21.27	21.37	21.28	22.80
		6	0	20.51	19.98	20.40	21.80
	256QAM	1	0	18.32	18.01	17.97	19.80



		1	2	18.30	18.21	18.18	19.80
		1	5	18.28	17.97	18.05	19.80
		3	0	18.39	18.24	17.92	19.80
		3	2	18.43	18.26	18.08	19.80
		3	3	18.40	18.07	18.17	19.80
		6	0	18.45	18.30	17.96	19.80
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	22.38	22.37	22.33	23.80
		1	7	22.53	22.48	22.52	23.80
		1	14	22.50	22.52	22.49	23.80
		8	0	22.36	22.29	22.22	23.80
		8	4	22.35	22.38	22.09	23.80
		8	7	22.35	22.29	22.04	23.80
		15	0	22.44	22.30	22.16	23.80
	16QAM	1	0	22.35	22.76	22.22	23.80
		1	7	22.38	22.73	22.21	23.80
		1	14	22.13	22.58	22.13	23.80
		8	0	21.57	21.39	21.21	22.80
		8	4	21.45	21.37	21.23	22.80
		8	7	21.53	21.35	21.19	22.80
		15	0	21.43	21.31	21.13	22.80
	64QAM	1	0	21.34	21.65	21.28	22.80
		1	7	21.41	21.77	21.24	22.80
		1	14	21.25	21.76	21.07	22.80
		8	0	20.58	20.26	20.28	21.80
		8	4	20.50	20.55	20.21	21.80
		8	7	20.50	20.43	20.16	21.80
		15	0	20.43	20.31	20.07	21.80
	256QAM	1	0	18.34	18.13	18.22	19.80
		1	7	18.28	18.38	18.22	19.80
		1	14	18.30	18.10	18.17	19.80
		8	0	18.59	18.33	18.36	19.80
		8	4	18.54	18.31	18.14	19.80
		8	7	18.39	18.28	18.12	19.80
		15	0	18.61	18.26	18.27	19.80
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	22.48	22.49	22.43	23.80
		1	13	22.50	22.44	22.54	23.80
		1	24	22.48	22.35	22.44	23.80
		12	0	22.28	22.28	22.11	23.80
		12	6	22.38	22.12	22.08	23.80



		12	13	22.35	22.20	22.09	23.80
		25	0	22.28	22.17	22.12	23.80
	16QAM	1	0	22.61	22.80	22.31	23.80
		1	13	22.40	22.68	22.22	23.80
		1	24	22.46	22.66	22.31	23.80
		12	0	21.54	21.49	21.09	22.80
		12	6	21.43	21.46	21.12	22.80
		12	13	21.34	21.29	21.11	22.80
		25	0	21.25	21.33	21.03	22.80
		25	0	21.25	21.33	21.03	22.80
	64QAM	1	0	21.56	21.88	21.26	22.80
		1	13	21.45	21.77	21.31	22.80
		1	24	21.53	21.71	21.25	22.80
		12	0	20.56	20.48	20.19	21.80
		12	6	20.36	20.44	20.26	21.80
		12	13	20.40	20.24	20.16	21.80
		25	0	20.38	20.36	20.13	21.80
		25	0	20.38	20.36	20.13	21.80
	256QAM	1	0	18.48	18.24	18.28	19.80
		1	13	18.25	18.29	18.22	19.80
		1	24	18.32	18.28	18.04	19.80
		12	0	18.40	18.57	18.30	19.80
		12	6	18.42	18.46	18.12	19.80
		12	13	18.47	18.34	18.33	19.80
		25	0	18.39	18.44	18.17	19.80
25		0	18.39	18.44	18.17	19.80	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	22.74	22.62	22.44	23.80
		1	25	22.51	22.53	22.44	23.80
		1	49	22.46	22.66	22.56	23.80
		25	0	22.14	22.23	22.13	23.80
		25	13	22.25	22.25	22.16	23.80
		25	25	22.22	22.18	22.04	23.80
		50	0	22.23	22.26	22.08	23.80
	16QAM	1	0	22.22	22.73	22.20	23.80
		1	25	22.06	22.66	22.18	23.80
		1	49	22.00	22.51	21.97	23.80
		25	0	21.20	21.34	21.21	22.80
		25	13	21.33	21.23	21.23	22.80
		25	25	21.32	21.36	21.22	22.80
		50	0	21.34	21.27	21.16	22.80
	64QAM	1	0	21.36	21.67	21.31	22.80
		1	25	21.13	21.81	21.26	22.80
		1	49	21.06	21.49	20.97	22.80
		25	0	20.46	20.20	20.16	21.80



		25	13	20.45	20.34	20.19	21.80
		25	25	20.45	20.23	20.15	21.80
		50	0	20.43	20.23	20.20	21.80
	256QAM	1	0	18.32	18.26	18.31	19.80
		1	25	18.32	18.19	18.15	19.80
		1	49	18.00	18.09	17.96	19.80
		25	0	18.40	18.29	18.20	19.80
		25	13	18.28	18.18	18.08	19.80
		25	25	18.22	18.26	18.26	19.80
50	0	18.43	18.40	18.35	19.80		

LTE FDD Band 5 ANT 1 Full Power&Level 1&2&3&4&5				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	23.25	23.14	23.00	24.80
		1	2	23.25	23.22	23.08	24.80
		1	5	23.19	23.13	22.97	24.80
		3	0	23.21	23.14	23.04	24.80
		3	2	23.23	23.22	23.11	24.80
		3	3	23.21	23.16	23.05	24.80
		6	0	22.30	22.23	22.09	23.80
	16QAM	1	0	22.41	22.57	22.18	23.80
		1	2	22.48	22.69	22.20	23.80
		1	5	22.41	22.62	22.15	23.80
		3	0	22.36	22.41	22.30	23.80
		3	2	22.41	22.49	22.36	23.80
		3	3	22.35	22.40	22.27	23.80
		6	0	21.42	21.12	21.29	22.80
	64QAM	1	0	21.42	21.58	21.26	22.80
		1	2	21.40	21.68	21.31	22.80
		1	5	21.46	21.64	21.26	22.80
		3	0	21.36	21.38	21.36	22.80
		3	2	21.55	21.56	21.33	22.80
		3	3	21.36	21.39	21.32	22.80
		6	0	20.53	20.02	20.44	21.80
	256QAM	1	0	18.28	18.18	18.00	19.80
		1	2	18.26	18.24	18.00	19.80
		1	5	18.14	18.15	18.02	19.80
		3	0	18.19	18.24	18.15	19.80
		3	2	18.28	18.26	18.20	19.80
		3	3	18.35	18.24	18.07	19.80
		6	0	18.39	18.06	17.97	19.80



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	23.45	23.31	23.24	24.80
		1	7	23.38	23.37	23.18	24.80
		1	14	23.30	23.25	23.06	24.80
		8	0	22.43	22.36	22.22	23.80
		8	4	22.44	22.42	22.20	23.80
		8	7	22.39	22.33	22.15	23.80
		15	0	22.46	22.32	22.25	23.80
	16QAM	1	0	22.42	22.76	22.33	23.80
		1	7	22.38	22.78	22.32	23.80
		1	14	22.22	22.69	22.20	23.80
		8	0	21.59	21.43	21.27	22.80
		8	4	21.54	21.48	21.27	22.80
		8	7	21.55	21.41	21.21	22.80
		15	0	21.47	21.37	21.21	22.80
	64QAM	1	0	21.36	21.76	21.39	22.80
		1	7	21.50	21.86	21.35	22.80
		1	14	21.34	21.76	21.13	22.80
		8	0	20.66	20.34	20.38	21.80
		8	4	20.50	20.59	20.31	21.80
		8	7	20.56	20.43	20.26	21.80
		15	0	20.51	20.31	20.13	21.80
	256QAM	1	0	18.39	18.22	18.27	19.80
		1	7	18.48	18.44	18.24	19.80
		1	14	18.24	18.26	17.90	19.80
		8	0	18.42	18.33	18.27	19.80
		8	4	18.55	18.54	18.27	19.80
		8	7	18.46	18.29	18.13	19.80
		15	0	18.64	18.29	18.33	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
5MHz	QPSK	1	0	23.45	23.39	23.24	24.80
		1	13	23.33	23.38	23.20	24.80
		1	24	23.28	23.33	23.13	24.80
		12	0	22.50	22.39	22.22	23.80
		12	6	22.46	22.34	22.19	23.80
		12	13	22.41	22.33	22.16	23.80
		25	0	22.46	22.32	22.19	23.80
	16QAM	1	0	22.72	22.94	22.42	23.80
		1	13	22.56	22.90	22.35	23.80
		1	24	22.57	22.86	22.37	23.80
		12	0	21.58	21.53	21.29	22.80



		12	6	21.51	21.48	21.27	22.80
		12	13	21.49	21.47	21.26	22.80
		25	0	21.45	21.41	21.16	22.80
	64QAM	1	0	21.73	21.90	21.32	22.80
		1	13	21.60	21.86	21.33	22.80
		1	24	21.53	21.79	21.35	22.80
		12	0	20.66	20.54	20.21	21.80
		12	6	20.44	20.54	20.38	21.80
		12	13	20.52	20.38	20.22	21.80
		25	0	20.56	20.46	20.27	21.80
	256QAM	1	0	18.47	18.30	18.14	19.80
		1	13	18.22	18.22	18.23	19.80
		1	24	18.27	18.34	18.02	19.80
		12	0	18.52	18.59	18.19	19.80
		12	6	18.49	18.55	18.25	19.80
		12	13	18.31	18.52	18.08	19.80
25		0	18.41	18.52	18.18	19.80	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	23.32	23.23	23.21	24.80
		1	25	23.24	23.17	23.13	24.80
		1	49	23.12	23.13	23.11	24.80
		25	0	22.23	22.32	22.17	23.80
		25	13	22.39	22.32	22.25	23.80
		25	25	22.33	22.31	22.17	23.80
		50	0	22.41	22.30	22.26	23.80
	16QAM	1	0	22.33	22.75	22.31	23.80
		1	25	22.24	22.75	22.18	23.80
		1	49	22.18	22.64	22.13	23.80
		25	0	21.37	21.40	21.31	22.80
		25	13	21.42	21.34	21.36	22.80
		25	25	21.42	21.44	21.30	22.80
		50	0	21.40	21.33	21.30	22.80
	64QAM	1	0	21.38	21.67	21.46	22.80
		1	25	21.30	21.90	21.28	22.80
		1	49	21.14	21.64	21.14	22.80
		25	0	20.52	20.36	20.28	21.80
		25	13	20.53	20.34	20.31	21.80
		25	25	20.51	20.43	20.21	21.80
		50	0	20.47	20.37	20.24	21.80
	256QAM	1	0	18.21	18.32	18.12	19.80
		1	25	18.11	18.12	18.01	19.80
		1	49	18.22	18.01	18.05	19.80



		25	0	18.40	18.34	18.28	19.80
		25	13	18.31	18.26	18.15	19.80
		25	25	18.28	18.27	18.14	19.80
		50	0	18.46	18.26	18.36	19.80

LTE FDD Band 5 ANT 1 Level 6&7&8				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	22.33	22.40	22.39	23.80
		1	2	22.34	22.20	22.27	23.80
		1	5	22.28	22.20	22.19	23.80
		3	0	22.24	22.31	22.31	23.80
		3	2	22.25	22.26	22.27	23.80
		3	3	22.48	22.34	22.33	23.80
		6	0	22.21	22.23	22.00	23.80
	16QAM	1	0	22.37	22.55	22.18	23.80
		1	2	22.48	22.62	22.09	23.80
		1	5	22.34	22.60	22.15	23.80
		3	0	22.25	22.37	22.30	23.80
		3	2	22.41	22.38	22.34	23.80
		3	3	22.24	22.36	22.25	23.80
		6	0	21.38	21.08	21.20	22.80
	64QAM	1	0	21.40	21.49	21.17	22.80
		1	2	21.29	21.68	21.31	22.80
		1	5	21.40	21.60	21.17	22.80
		3	0	21.30	21.38	21.25	22.80
		3	2	21.49	21.47	21.22	22.80
		3	3	21.27	21.37	21.28	22.80
		6	0	20.51	19.98	20.40	21.80
	256QAM	1	0	18.32	18.01	17.97	19.80
		1	2	18.30	18.21	18.18	19.80
		1	5	18.28	17.97	18.05	19.80
		3	0	18.39	18.24	17.92	19.80
		3	2	18.43	18.26	18.08	19.80
		3	3	18.40	18.07	18.17	19.80
		6	0	18.45	18.30	17.96	19.80
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	22.38	22.37	22.33	23.80
		1	7	22.53	22.48	22.52	23.80
		1	14	22.50	22.52	22.49	23.80
		8	0	22.36	22.29	22.22	23.80



		8	4	22.35	22.38	22.09	23.80
		8	7	22.35	22.29	22.04	23.80
		15	0	22.44	22.30	22.16	23.80
	16QAM	1	0	22.35	22.76	22.22	23.80
		1	7	22.38	22.73	22.21	23.80
		1	14	22.13	22.58	22.13	23.80
		8	0	21.57	21.39	21.21	22.80
		8	4	21.45	21.37	21.23	22.80
		8	7	21.53	21.35	21.19	22.80
		15	0	21.43	21.31	21.13	22.80
		64QAM	1	0	21.34	21.65	21.28
	1		7	21.41	21.77	21.24	22.80
	1		14	21.25	21.76	21.07	22.80
	8		0	20.58	20.26	20.28	21.80
	8		4	20.50	20.55	20.21	21.80
	8		7	20.50	20.43	20.16	21.80
	15		0	20.43	20.31	20.07	21.80
	256QAM	1	0	18.34	18.13	18.22	19.80
		1	7	18.28	18.38	18.22	19.80
		1	14	18.30	18.10	18.17	19.80
		8	0	18.59	18.33	18.36	19.80
		8	4	18.54	18.31	18.14	19.80
		8	7	18.39	18.28	18.12	19.80
		15	0	18.61	18.26	18.27	19.80
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	22.48	22.49	22.43	23.80
		1	13	22.50	22.44	22.54	23.80
		1	24	22.48	22.35	22.44	23.80
		12	0	22.28	22.28	22.11	23.80
		12	6	22.38	22.12	22.08	23.80
		12	13	22.35	22.20	22.09	23.80
		25	0	22.28	22.17	22.12	23.80
	16QAM	1	0	22.61	22.80	22.31	23.80
		1	13	22.40	22.68	22.22	23.80
		1	24	22.46	22.66	22.31	23.80
		12	0	21.54	21.49	21.09	22.80
		12	6	21.43	21.46	21.12	22.80
		12	13	21.34	21.29	21.11	22.80
		25	0	21.25	21.33	21.03	22.80
	64QAM	1	0	21.56	21.88	21.26	22.80
		1	13	21.45	21.77	21.31	22.80
		1	24	21.53	21.71	21.25	22.80



		12	0	20.56	20.48	20.19	21.80
		12	6	20.36	20.44	20.26	21.80
		12	13	20.40	20.24	20.16	21.80
		25	0	20.38	20.36	20.13	21.80
	256QAM	1	0	18.48	18.24	18.28	19.80
		1	13	18.25	18.29	18.22	19.80
		1	24	18.32	18.28	18.04	19.80
		12	0	18.40	18.57	18.30	19.80
		12	6	18.42	18.46	18.12	19.80
		12	13	18.47	18.34	18.33	19.80
25	0	18.39	18.44	18.17	19.80		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	22.74	22.62	22.44	23.80
		1	25	22.51	22.53	22.44	23.80
		1	49	22.46	22.66	22.56	23.80
		25	0	22.14	22.23	22.13	23.80
		25	13	22.25	22.25	22.16	23.80
		25	25	22.22	22.18	22.04	23.80
		50	0	22.23	22.26	22.08	23.80
	16QAM	1	0	22.22	22.73	22.20	23.80
		1	25	22.06	22.66	22.18	23.80
		1	49	22.00	22.51	21.97	23.80
		25	0	21.20	21.34	21.21	22.80
		25	13	21.33	21.23	21.23	22.80
		25	25	21.32	21.36	21.22	22.80
		50	0	21.34	21.27	21.16	22.80
	64QAM	1	0	21.36	21.67	21.31	22.80
		1	25	21.13	21.81	21.26	22.80
		1	49	21.06	21.49	20.97	22.80
		25	0	20.46	20.20	20.16	21.80
		25	13	20.45	20.34	20.19	21.80
		25	25	20.45	20.23	20.15	21.80
		50	0	20.43	20.23	20.20	21.80
	256QAM	1	0	18.32	18.26	18.31	19.80
		1	25	18.32	18.19	18.15	19.80
		1	49	18.00	18.09	17.96	19.80
		25	0	18.40	18.29	18.20	19.80
		25	13	18.28	18.18	18.08	19.80
		25	25	18.22	18.26	18.26	19.80
		50	0	18.43	18.40	18.35	19.80



LTE FDD Band 7 ANT 3 Level 1				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	13.39	13.36	13.33	15.00
		1	13	13.36	13.37	13.33	15.00
		1	24	13.46	13.53	13.55	15.00
		12	0	13.36	13.36	13.39	15.00
		12	6	13.36	13.34	13.35	15.00
		12	13	13.70	13.68	13.63	15.00
		25	0	13.51	13.47	13.48	15.00
	16QAM	1	0	13.70	13.56	13.56	15.00
		1	13	13.45	13.37	13.39	15.00
		1	24	13.58	13.52	13.50	15.00
		12	0	13.43	13.41	13.41	15.00
		12	6	13.57	13.49	13.50	15.00
		12	13	13.55	13.37	13.41	15.00
		25	0	13.38	13.43	13.36	15.00
	64QAM	1	0	13.59	13.58	13.53	15.00
		1	13	13.55	13.57	13.60	15.00
		1	24	13.43	13.43	13.42	15.00
		12	0	13.66	13.67	13.54	15.00
		12	6	13.43	13.44	13.33	15.00
		12	13	13.53	13.50	13.57	15.00
		25	0	13.55	13.44	13.43	15.00
	256QAM	1	0	13.35	13.35	13.24	15.00
		1	13	13.26	13.29	13.25	15.00
		1	24	13.35	13.49	13.44	15.00
12		0	13.28	13.33	13.38	15.00	
12		6	13.28	13.30	13.31	15.00	
12		13	13.64	13.57	13.60	15.00	
25		0	13.50	13.37	13.40	15.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
10MHz	QPSK	1	0	13.58	13.65	13.64	15.00
		1	25	13.69	13.54	13.55	15.00
		1	49	13.36	13.33	13.32	15.00
		25	0	13.33	13.31	13.28	15.00
		25	13	13.39	13.33	13.38	15.00
		25	25	13.48	13.51	13.52	15.00
		50	0	13.33	13.27	13.37	15.00
	16QAM	1	0	13.67	13.55	13.67	15.00
		1	25	13.58	13.45	13.52	15.00



		1	49	13.38	13.27	13.30	15.00	
		25	0	13.54	13.45	13.52	15.00	
		25	13	13.56	13.44	13.57	15.00	
		25	25	13.58	13.55	13.55	15.00	
		50	0	13.60	13.59	13.53	15.00	
	64QAM	1	0	13.64	13.58	13.53	15.00	
		1	25	13.47	13.51	13.49	15.00	
		1	49	13.45	13.33	13.45	15.00	
		25	0	13.48	13.45	13.42	15.00	
		25	13	13.58	13.58	13.51	15.00	
		25	25	13.72	13.66	13.68	15.00	
		50	0	13.58	13.61	13.61	15.00	
	256QAM	1	0	13.51	13.60	13.54	15.00	
		1	25	13.60	13.53	13.53	15.00	
		1	49	13.27	13.31	13.24	15.00	
		25	0	13.29	13.29	13.28	15.00	
		25	13	13.33	13.24	13.35	15.00	
		25	25	13.41	13.48	13.42	15.00	
		50	0	13.25	13.19	13.33	15.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	13.43	13.32	13.35	15.00	
		1	38	13.49	13.38	13.46	15.00	
		1	74	13.61	13.51	13.53	15.00	
		36	0	13.62	13.66	13.57	15.00	
		36	18	13.65	13.50	13.46	15.00	
		36	39	13.55	13.52	13.42	15.00	
		75	0	13.65	13.60	13.60	15.00	
	16QAM	1	0	13.38	13.39	13.27	15.00	
		1	38	13.53	13.40	13.53	15.00	
		1	74	13.60	13.47	13.45	15.00	
		36	0	13.71	13.58	13.65	15.00	
		36	18	13.44	13.28	13.28	15.00	
		36	39	13.61	13.46	13.59	15.00	
		75	0	13.63	13.51	13.60	15.00	
	64QAM	1	0	13.54	13.51	13.45	15.00	
		1	38	13.53	13.37	13.44	15.00	
		1	74	13.53	13.44	13.48	15.00	
		36	0	13.54	13.49	13.54	15.00	
		36	18	13.57	13.49	13.47	15.00	
		36	39	13.45	13.32	13.31	15.00	
		75	0	13.37	13.25	13.29	15.00	
256QAM	1	0	13.43	13.22	13.27	15.00		



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
		1	38	13.39	13.29	13.45	15.00
		1	74	13.56	13.48	13.50	15.00
		36	0	13.58	13.63	13.46	15.00
		36	18	13.63	13.45	13.37	15.00
		36	39	13.45	13.43	13.36	15.00
		75	0	13.56	13.52	13.54	15.00
20MHz	QPSK	1	0	13.64	13.66	13.73	15.00
		1	50	13.59	13.76	13.68	15.00
		1	99	13.43	13.57	13.41	15.00
		50	0	13.54	13.51	13.37	15.00
		50	25	13.60	13.53	13.47	15.00
		50	50	13.64	13.55	13.58	15.00
		100	0	13.61	13.60	13.55	15.00
	16QAM	1	0	13.81	13.83	13.75	15.00
		1	50	13.50	13.64	13.48	15.00
		1	99	13.63	13.56	13.38	15.00
		50	0	13.49	13.43	13.47	15.00
		50	25	13.43	13.33	13.30	15.00
		50	50	13.53	13.44	13.45	15.00
		100	0	13.66	13.59	13.54	15.00
	64QAM	1	0	13.43	13.57	13.44	15.00
		1	50	13.43	13.52	13.69	15.00
		1	99	13.39	13.44	13.49	15.00
		50	0	13.48	13.45	13.47	15.00
		50	25	13.34	13.27	13.35	15.00
		50	50	13.40	13.31	13.39	15.00
		100	0	13.72	13.65	13.55	15.00
	256QAM	1	0	13.60	13.66	13.69	15.00
		1	50	13.56	13.69	13.60	15.00
		1	99	13.36	13.51	13.31	15.00
		50	0	13.51	13.47	13.31	15.00
		50	25	13.57	13.47	13.45	15.00
		50	50	13.54	13.55	13.55	15.00
		100	0	13.60	13.56	13.49	15.00

LTE FDD Band 7 ANT 3 Level 2&3&4				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	11.62	11.61	11.64	13.00
		1	13	11.45	11.35	11.33	13.00



		1	24	11.49	11.40	11.41	13.00	
		12	0	11.54	11.51	11.54	13.00	
		12	6	11.37	11.38	11.29	13.00	
		12	13	11.43	11.42	11.45	13.00	
		25	0	11.43	11.33	11.41	13.00	
	16QAM	1	0	11.39	11.36	11.32	13.00	
		1	13	11.45	11.44	11.46	13.00	
		1	24	11.39	11.37	11.34	13.00	
		12	0	11.52	11.57	11.52	13.00	
		12	6	11.51	11.45	11.50	13.00	
		12	13	11.67	11.54	11.65	13.00	
		25	0	11.55	11.49	11.44	13.00	
	64QAM	1	0	11.69	11.63	11.57	13.00	
		1	13	11.63	11.65	11.58	13.00	
		1	24	11.36	11.34	11.24	13.00	
		12	0	11.43	11.28	11.33	13.00	
		12	6	11.67	11.51	11.49	13.00	
		12	13	11.47	11.35	11.48	13.00	
		25	0	11.56	11.60	11.50	13.00	
	256QAM	1	0	11.57	11.59	11.63	13.00	
		1	13	11.41	11.24	11.27	13.00	
		1	24	11.44	11.37	11.35	13.00	
		12	0	11.45	11.44	11.46	13.00	
		12	6	11.27	11.31	11.22	13.00	
		12	13	11.42	11.34	11.35	13.00	
		25	0	11.38	11.32	11.32	13.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	11.57	11.43	11.42	13.00	
		1	25	11.39	11.33	11.38	13.00	
		1	49	11.46	11.43	11.48	13.00	
		25	0	11.42	11.34	11.38	13.00	
		25	13	11.51	11.45	11.57	13.00	
		25	25	11.57	11.58	11.55	13.00	
		50	0	11.54	11.53	11.53	13.00	
	16QAM	1	0	11.58	11.52	11.57	13.00	
		1	25	11.38	11.28	11.34	13.00	
		1	49	11.46	11.41	11.42	13.00	
		25	0	11.60	11.52	11.62	13.00	
		25	13	11.49	11.48	11.45	13.00	
		25	25	11.53	11.59	11.60	13.00	
		50	0	11.56	11.38	11.51	13.00	
	64QAM	1	0	11.52	11.42	11.57	13.00	



		1	25	11.47	11.39	11.32	13.00	
		1	49	11.51	11.44	11.52	13.00	
		25	0	11.41	11.47	11.41	13.00	
		25	13	11.59	11.56	11.57	13.00	
		25	25	11.57	11.58	11.55	13.00	
		50	0	11.32	11.29	11.38	13.00	
	256QAM	1	0	11.47	11.41	11.34	13.00	
		1	25	11.38	11.24	11.37	13.00	
		1	49	11.42	11.43	11.41	13.00	
		25	0	11.32	11.32	11.32	13.00	
		25	13	11.45	11.42	11.56	13.00	
		25	25	11.53	11.49	11.52	13.00	
			50	0	11.49	11.45	11.44	13.00
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
20825/2507.5					21100/2535	21375/2562.5		
15MHz	QPSK	1	0	11.34	11.42	11.34	13.00	
		1	38	11.51	11.37	11.46	13.00	
		1	74	11.55	11.49	11.42	13.00	
		36	0	11.58	11.57	11.50	13.00	
		36	18	11.49	11.45	11.43	13.00	
		36	39	11.45	11.45	11.55	13.00	
		75	0	11.52	11.40	11.39	13.00	
	16QAM	1	0	11.39	11.44	11.43	13.00	
		1	38	11.36	11.28	11.28	13.00	
		1	74	11.57	11.46	11.54	13.00	
		36	0	11.45	11.42	11.42	13.00	
		36	18	11.53	11.35	11.35	13.00	
		36	39	11.55	11.47	11.35	13.00	
		75	0	11.48	11.46	11.55	13.00	
	64QAM	1	0	11.35	11.38	11.33	13.00	
		1	38	11.42	11.30	11.31	13.00	
		1	74	11.73	11.60	11.62	13.00	
		36	0	11.63	11.60	11.57	13.00	
		36	18	11.37	11.26	11.33	13.00	
		36	39	11.67	11.62	11.53	13.00	
		75	0	11.45	11.40	11.48	13.00	
	256QAM	1	0	11.33	11.34	11.31	13.00	
		1	38	11.49	11.28	11.41	13.00	
		1	74	11.48	11.47	11.33	13.00	
		36	0	11.53	11.50	11.50	13.00	
		36	18	11.41	11.37	11.35	13.00	
		36	39	11.39	11.44	11.51	13.00	
		75	0	11.42	11.32	11.34	13.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	11.48	11.54	11.69	13.00
		1	50	11.78	11.61	11.80	13.00
		1	99	11.69	11.70	11.66	13.00
		50	0	11.48	11.54	11.44	13.00
		50	25	11.52	11.56	11.55	13.00
		50	50	11.53	11.49	11.40	13.00
		100	0	11.61	11.47	11.55	13.00
	16QAM	1	0	11.74	11.69	11.66	13.00
		1	50	11.64	11.57	11.61	13.00
		1	99	11.68	11.83	11.81	13.00
		50	0	11.42	11.40	11.50	13.00
		50	25	11.38	11.40	11.35	13.00
		50	50	11.56	11.66	11.65	13.00
		100	0	11.68	11.51	11.58	13.00
	64QAM	1	0	11.54	11.69	11.45	13.00
		1	50	11.40	11.54	11.59	13.00
		1	99	11.55	11.53	11.41	13.00
		50	0	11.41	11.28	11.31	13.00
		50	25	11.50	11.52	11.54	13.00
		50	50	11.43	11.39	11.47	13.00
		100	0	11.42	11.43	11.38	13.00
	256QAM	1	0	11.43	11.53	11.69	13.00
		1	50	11.71	11.54	11.69	13.00
		1	99	11.62	11.67	11.64	13.00
		50	0	11.43	11.46	11.35	13.00
		50	25	11.44	11.53	11.55	13.00
		50	50	11.47	11.46	11.36	13.00
		100	0	11.60	11.45	11.51	13.00

LTE FDD Band 7 ANT 3 Level 5				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	18.44	18.27	18.31	20.00
		1	13	18.49	18.50	18.45	20.00
		1	24	18.34	18.29	18.39	20.00
		12	0	18.48	18.32	18.31	20.00
		12	6	18.47	18.52	18.56	20.00
		12	13	18.56	18.49	18.46	20.00
		25	0	18.65	18.54	18.68	20.00
	16QAM	1	0	18.50	18.47	18.43	20.00



		1	13	18.55	18.46	18.47	20.00	
		1	24	18.65	18.61	18.56	20.00	
		12	0	18.63	18.59	18.56	20.00	
		12	6	18.42	18.39	18.42	20.00	
		12	13	18.34	18.32	18.29	20.00	
		25	0	18.71	18.52	18.59	20.00	
	64QAM	1	0	18.48	18.42	18.44	20.00	
		1	13	18.46	18.36	18.30	20.00	
		1	24	18.60	18.63	18.55	20.00	
		12	0	18.45	18.49	18.48	20.00	
		12	6	18.51	18.51	18.59	20.00	
		12	13	18.60	18.60	18.65	20.00	
	256QAM	25	0	18.50	18.48	18.43	20.00	
		1	0	17.31	17.24	17.17	19.00	
		1	13	17.37	17.42	17.31	19.00	
		1	24	17.24	17.38	17.37	19.00	
		12	0	17.25	17.24	17.44	19.00	
		12	6	17.35	17.33	17.33	19.00	
	10MHz	QPSK	12	13	17.21	17.58	17.31	19.00
			25	0	17.27	17.21	17.41	19.00
			1	0	18.54	18.59	18.51	20.00
1			25	18.60	18.63	18.63	20.00	
1			49	18.55	18.50	18.56	20.00	
25			0	18.45	18.42	18.38	20.00	
25			13	18.54	18.47	18.49	20.00	
16QAM	25	25	18.59	18.62	18.61	20.00		
	50	0	18.60	18.65	18.59	20.00		
	1	0	18.39	18.36	18.25	20.00		
	1	25	18.51	18.49	18.46	20.00		
	1	49	18.66	18.52	18.56	20.00		
	25	0	18.47	18.47	18.45	20.00		
	25	13	18.50	18.52	18.44	20.00		
64QAM	25	25	18.51	18.43	18.41	20.00		
	50	0	18.45	18.35	18.44	20.00		
	1	0	18.64	18.54	18.57	20.00		
	1	25	18.56	18.55	18.55	20.00		
	1	49	18.46	18.43	18.34	20.00		
	25	0	18.58	18.42	18.46	20.00		
	25	13	18.45	18.39	18.39	20.00		
		25	25	18.60	18.47	18.54	20.00	
		50	0	18.56	18.52	18.50	20.00	

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20825/2507.5	21100/2535	21375/2562.5		
	256QAM	1	0	17.10	17.06	17.25	19.00	
		1	25	17.27	17.20	17.45	19.00	
		1	49	17.23	17.33	17.39	19.00	
		25	0	17.45	17.23	17.25	19.00	
		25	13	17.23	17.33	17.55	19.00	
		25	25	17.41	17.40	17.54	19.00	
		50	0	17.39	17.36	17.40	19.00	
15MHz	QPSK	1	0	18.69	18.59	18.51	20.00	
		1	38	18.44	18.52	18.42	20.00	
		1	74	18.63	18.49	18.60	20.00	
		36	0	18.45	18.33	18.40	20.00	
		36	18	18.46	18.37	18.47	20.00	
		36	39	18.60	18.49	18.53	20.00	
		75	0	18.48	18.33	18.32	20.00	
	16QAM	1	0	18.55	18.54	18.41	20.00	
		1	38	18.36	18.41	18.40	20.00	
		1	74	18.55	18.53	18.60	20.00	
		36	0	18.67	18.60	18.53	20.00	
		36	18	18.42	18.41	18.36	20.00	
		36	39	18.49	18.44	18.42	20.00	
		75	0	18.43	18.47	18.52	20.00	
	64QAM	1	0	18.54	18.62	18.63	20.00	
		1	38	18.44	18.37	18.35	20.00	
		1	74	18.41	18.48	18.47	20.00	
		36	0	18.46	18.35	18.33	20.00	
		36	18	18.45	18.43	18.45	20.00	
		36	39	18.52	18.45	18.54	20.00	
		75	0	18.34	18.31	18.35	20.00	
	256QAM	1	0	17.38	17.26	17.28	19.00	
		1	38	17.37	17.36	17.32	19.00	
		1	74	17.07	17.26	17.41	19.00	
		36	0	17.30	17.52	17.29	19.00	
		36	18	17.35	17.33	17.58	19.00	
		36	39	17.44	17.32	17.45	19.00	
		75	0	17.55	17.32	17.29	19.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20850/2510	21100/2535	21350/2560	
	20MHz	QPSK	1	0	18.70	18.69	18.76	20.00
			1	50	18.73	18.48	18.56	20.00
			1	99	18.52	18.60	18.74	20.00
			50	0	18.51	18.45	18.49	20.00



		50	25	18.40	18.40	18.32	20.00
		50	50	18.53	18.46	18.53	20.00
		100	0	18.71	18.63	18.66	20.00
	16QAM	1	0	18.55	18.47	18.44	20.00
		1	50	18.44	18.33	18.35	20.00
		1	99	18.54	18.76	18.66	20.00
		50	0	18.40	18.48	18.42	20.00
		50	25	18.67	18.57	18.56	20.00
		50	50	18.53	18.50	18.53	20.00
		100	0	18.72	18.63	18.64	20.00
	64QAM	1	0	18.54	18.42	18.53	20.00
		1	50	18.75	18.48	18.53	20.00
		1	99	18.77	18.77	18.70	20.00
		50	0	18.46	18.55	18.49	20.00
		50	25	18.42	18.26	18.32	20.00
		50	50	18.49	18.44	18.33	20.00
		100	0	18.42	18.40	18.28	20.00
	256QAM	1	0	17.44	17.35	17.34	19.00
		1	50	17.31	17.38	17.13	19.00
		1	99	17.36	17.50	17.18	19.00
		50	0	17.40	17.33	17.37	19.00
		50	25	17.25	17.63	17.36	19.00
		50	50	17.42	17.65	17.42	19.00
		100	0	17.33	17.50	17.29	19.00

LTE FDD Band 7 ANT 3 Level 6&7&8				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	17.69	17.61	17.58	19.00
		1	13	17.37	17.37	17.41	19.00
		1	24	17.68	17.58	17.52	19.00
		12	0	17.49	17.51	17.41	19.00
		12	6	17.65	17.64	17.59	19.00
		12	13	17.39	17.33	17.34	19.00
		25	0	17.42	17.51	17.52	19.00
	16QAM	1	0	17.60	17.50	17.44	19.00
		1	13	17.59	17.56	17.66	19.00
		1	24	17.52	17.40	17.34	19.00
		12	0	17.58	17.52	17.47	19.00
		12	6	17.32	17.30	17.39	19.00
		12	13	17.40	17.42	17.43	19.00
		25	0	17.49	17.40	17.47	19.00



	64QAM	1	0	17.32	17.38	17.38	19.00
		1	13	17.34	17.26	17.41	19.00
		1	24	17.53	17.51	17.51	19.00
		12	0	17.72	17.60	17.60	19.00
		12	6	17.54	17.52	17.45	19.00
		12	13	17.56	17.58	17.60	19.00
		25	0	17.73	17.63	17.55	19.00
	256QAM	1	0	17.19	17.30	17.17	19.00
		1	13	17.26	17.31	17.42	19.00
		1	24	17.32	17.36	17.48	19.00
		12	0	17.22	17.44	17.40	19.00
		12	6	17.43	17.59	17.32	19.00
		12	13	17.19	17.43	17.45	19.00
		25	0	17.40	17.40	17.28	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	17.40	17.43	17.39	19.00
		1	25	17.53	17.57	17.43	19.00
		1	49	17.50	17.48	17.54	19.00
		25	0	17.48	17.45	17.37	19.00
		25	13	17.34	17.32	17.36	19.00
		25	25	17.47	17.35	17.40	19.00
		50	0	17.31	17.39	17.41	19.00
	16QAM	1	0	17.34	17.31	17.32	19.00
		1	25	17.58	17.63	17.62	19.00
		1	49	17.42	17.45	17.46	19.00
		25	0	17.41	17.31	17.39	19.00
		25	13	17.50	17.44	17.44	19.00
		25	25	17.43	17.40	17.47	19.00
		50	0	17.64	17.61	17.55	19.00
	64QAM	1	0	17.55	17.50	17.46	19.00
		1	25	17.69	17.55	17.58	19.00
		1	49	17.61	17.60	17.54	19.00
		25	0	17.40	17.40	17.31	19.00
		25	13	17.68	17.54	17.58	19.00
		25	25	17.44	17.36	17.46	19.00
		50	0	17.32	17.38	17.25	19.00
	256QAM	1	0	17.18	17.26	17.31	19.00
		1	25	17.29	17.15	17.22	19.00
		1	49	17.14	17.20	17.31	19.00
		25	0	17.25	17.34	17.28	19.00
		25	13	17.36	17.25	17.46	19.00
		25	25	17.25	17.40	17.52	19.00



Bandwidth	Modulation	50	0	17.30	17.18	17.24	19.00
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	17.50	17.57	17.48	19.00
		1	38	17.36	17.36	17.33	19.00
		1	74	17.60	17.57	17.55	19.00
		36	0	17.64	17.54	17.51	19.00
		36	18	17.62	17.57	17.62	19.00
		36	39	17.50	17.34	17.43	19.00
		75	0	17.64	17.58	17.44	19.00
	16QAM	1	0	17.41	17.34	17.33	19.00
		1	38	17.56	17.43	17.52	19.00
		1	74	17.60	17.63	17.51	19.00
		36	0	17.45	17.43	17.48	19.00
		36	18	17.59	17.45	17.56	19.00
		36	39	17.46	17.41	17.46	19.00
		75	0	17.45	17.36	17.40	19.00
	64QAM	1	0	17.57	17.38	17.38	19.00
		1	38	17.43	17.34	17.43	19.00
		1	74	17.42	17.41	17.29	19.00
		36	0	17.47	17.38	17.40	19.00
		36	18	17.50	17.36	17.35	19.00
		36	39	17.69	17.61	17.68	19.00
		75	0	17.60	17.55	17.56	19.00
	256QAM	1	0	17.32	17.24	17.23	19.00
		1	38	17.12	17.36	17.36	19.00
		1	74	17.19	17.38	17.34	19.00
		36	0	17.28	17.36	17.55	19.00
		36	18	17.30	17.56	17.42	19.00
		36	39	17.32	17.54	17.41	19.00
		75	0	17.31	17.46	17.44	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
		20MHz	QPSK	1	0	17.57	17.59
1	50			17.83	17.73	17.76	19.00
1	99			17.44	17.40	17.57	19.00
50	0			17.62	17.67	17.53	19.00
50	25			17.67	17.67	17.58	19.00
50	50			17.56	17.53	17.65	19.00
100	0			17.53	17.39	17.40	19.00
16QAM	1		0	17.59	17.71	17.49	19.00
	1		50	17.72	17.60	17.68	19.00
	1	99	17.63	17.69	17.53	19.00	



		50	0	17.60	17.56	17.52	19.00
		50	25	17.58	17.52	17.48	19.00
		50	50	17.44	17.35	17.33	19.00
		100	0	17.71	17.63	17.65	19.00
	64QAM	1	0	17.40	17.38	17.52	19.00
		1	50	17.44	17.54	17.50	19.00
		1	99	17.39	17.46	17.38	19.00
		50	0	17.49	17.37	17.38	19.00
		50	25	17.59	17.51	17.55	19.00
		50	50	17.54	17.60	17.51	19.00
		100	0	17.56	17.54	17.45	19.00
	256QAM	1	0	17.28	17.24	17.25	19.00
		1	50	17.29	17.27	17.33	19.00
		1	99	17.15	17.51	17.24	19.00
		50	0	17.33	17.37	17.29	19.00
		50	25	17.27	17.64	17.43	19.00
		50	50	17.31	17.61	17.42	19.00
		100	0	17.49	17.31	17.30	19.00

LTE FDD Band 7				Conducted Power(dBm)			Tune-up Limit
ANT 4 Full Power&Level 1&2&3&4&5&6&7&8				Channel/Frequency (MHz)			
Bandwidth	Modulation	RB size	RB offset	20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.26	22.28	22.32	24.00
		1	13	22.30	22.38	22.40	24.00
		1	24	22.26	22.43	22.38	24.00
		12	0	21.39	21.38	21.47	23.00
		12	6	21.38	21.38	21.42	23.00
		12	13	21.38	21.48	21.44	23.00
		25	0	21.36	21.41	21.44	23.00
	16QAM	1	0	21.55	21.91	21.61	23.00
		1	13	21.59	22.00	21.58	23.00
		1	24	21.51	22.00	21.57	23.00
		12	0	20.46	20.56	20.52	22.00
		12	6	20.45	20.58	20.47	22.00
		12	13	20.42	20.59	20.48	22.00
		25	0	20.39	20.48	20.43	22.00
	64QAM	1	0	20.49	20.95	20.66	22.00
		1	13	20.53	21.12	20.63	22.00
		1	24	20.48	21.06	20.60	22.00
		12	0	19.49	19.48	19.48	21.00
		12	6	19.40	19.58	19.51	21.00
		12	13	19.56	19.58	19.59	21.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
	256QAM	25	0	19.44	19.60	19.54	21.00
		1	0	17.08	17.19	17.43	19.00
		1	13	17.37	17.32	17.32	19.00
		1	24	17.14	17.26	17.27	19.00
		12	0	17.24	17.29	17.36	19.00
		12	6	17.25	17.39	17.52	19.00
		12	13	17.28	17.56	17.44	19.00
		25	0	17.44	17.47	17.40	19.00
10MHz	QPSK	1	0	22.26	22.24	22.31	24.00
		1	25	22.21	22.31	22.36	24.00
		1	49	22.23	22.28	22.35	24.00
		25	0	21.39	21.48	21.46	23.00
		25	13	21.42	21.41	21.48	23.00
		25	25	21.36	21.46	21.46	23.00
		50	0	21.40	21.44	21.45	23.00
	16QAM	1	0	21.33	21.74	21.41	23.00
		1	25	21.22	21.79	21.43	23.00
		1	49	21.26	21.83	21.40	23.00
		25	0	20.43	20.49	20.59	22.00
		25	13	20.44	20.47	20.63	22.00
		25	25	20.41	20.56	20.60	22.00
		50	0	20.36	20.46	20.50	22.00
	64QAM	1	0	20.40	20.69	20.38	22.00
		1	25	20.24	20.75	20.45	22.00
		1	49	20.24	20.90	20.30	22.00
		25	0	19.35	19.47	19.63	21.00
		25	13	19.43	19.56	19.62	21.00
		25	25	19.48	19.53	19.70	21.00
		50	0	19.50	19.37	19.58	21.00
	256QAM	1	0	17.29	17.25	17.30	19.00
		1	25	17.15	17.14	17.25	19.00
		1	49	17.15	17.25	17.28	19.00
		25	0	17.40	17.33	17.36	19.00
		25	13	17.35	17.47	17.35	19.00
		25	25	17.24	17.25	17.49	19.00
		50	0	17.27	17.21	17.38	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.35	22.39	22.34	24.00
		1	38	22.27	22.41	22.41	24.00
		1	74	22.25	22.35	22.37	24.00



		36	0	21.41	21.44	21.40	23.00	
		36	18	21.42	21.42	21.49	23.00	
		36	39	21.36	21.48	21.47	23.00	
		75	0	21.40	21.41	21.34	23.00	
	16QAM	1	0	21.27	21.84	21.79	23.00	
		1	38	21.33	21.83	21.92	23.00	
		1	74	21.27	21.87	21.93	23.00	
		36	0	20.42	20.45	20.40	22.00	
		36	18	20.42	20.51	20.48	22.00	
		36	39	20.38	20.51	20.47	22.00	
		75	0	20.42	20.46	20.39	22.00	
		64QAM	1	0	20.28	20.88	20.82	22.00
	1		38	20.38	20.77	20.93	22.00	
	1		74	20.24	20.91	21.02	22.00	
	36		0	19.52	19.41	19.40	21.00	
	36		18	19.42	19.46	19.41	21.00	
	36		39	19.33	19.58	19.45	21.00	
	75		0	19.56	19.45	19.45	21.00	
	256QAM	1	0	17.34	17.34	17.32	19.00	
		1	38	17.26	17.43	17.29	19.00	
		1	74	17.21	17.26	17.33	19.00	
		36	0	17.38	17.42	17.53	19.00	
		36	18	17.47	17.57	17.44	19.00	
		36	39	17.27	17.33	17.38	19.00	
		75	0	17.55	17.40	17.26	19.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20850/2510	21100/2535	21350/2560	
	20MHz	QPSK	1	0	22.36	22.39	22.27	24.00
1			50	22.25	22.44	22.30	24.00	
1			99	22.29	22.45	22.31	24.00	
50			0	21.36	21.43	21.40	23.00	
50			25	21.43	21.42	21.43	23.00	
50			50	21.37	21.50	21.46	23.00	
100			0	21.42	21.42	21.41	23.00	
16QAM		1	0	21.94	21.88	21.83	23.00	
		1	50	21.85	21.91	21.84	23.00	
		1	99	21.86	21.96	21.84	23.00	
		50	0	20.38	20.47	20.41	22.00	
		50	25	20.45	20.43	20.38	22.00	
		50	50	20.44	20.52	20.47	22.00	
		100	0	20.47	20.44	20.39	22.00	
64QAM		1	0	20.86	20.99	20.90	22.00	
		1	50	20.78	20.88	20.96	22.00	



		1	99	20.82	20.90	20.81	22.00
		50	0	19.49	19.58	19.54	21.00
		50	25	19.44	19.57	19.44	21.00
		50	50	19.47	19.47	19.61	21.00
		100	0	19.60	19.53	19.33	21.00
	256QAM	1	0	17.23	17.31	17.37	19.00
		1	50	17.16	17.28	17.13	19.00
		1	99	17.39	17.43	17.21	19.00
		50	0	17.35	17.51	17.23	19.00
		50	25	17.29	17.60	17.37	19.00
		50	50	17.38	17.39	17.34	19.00
		100	0	17.36	17.51	17.34	19.00

LTE FDD Band 12 ANT 0 Full Power & Level 1&5&6&7&8				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.17	23.12	23.08	24.80
		1	2	23.18	23.21	23.06	24.80
		1	5	23.13	23.17	22.99	24.80
		3	0	23.17	23.09	23.08	24.80
		3	2	23.18	23.20	23.11	24.80
		3	3	23.11	23.14	23.08	24.80
		6	0	22.24	22.19	22.11	23.80
	16QAM	1	0	22.39	22.55	22.16	23.80
		1	2	22.41	22.65	22.18	23.80
		1	5	22.34	22.55	22.12	23.80
		3	0	22.30	22.37	22.29	23.80
		3	2	22.32	22.48	22.33	23.80
		3	3	22.27	22.39	22.31	23.80
		6	0	21.37	21.11	21.30	22.80
	64QAM	1	0	21.34	21.49	21.11	22.80
		1	2	21.52	21.72	21.26	22.80
		1	5	21.33	21.60	21.08	22.80
		3	0	21.26	21.29	21.29	22.80
		3	2	21.26	21.63	21.34	22.80
		3	3	21.41	21.34	21.26	22.80
		6	0	20.46	20.09	20.44	21.80
	256QAM	1	0	18.10	18.12	17.98	19.80
		1	2	18.17	18.20	17.97	19.80
		1	5	18.17	18.04	17.87	19.80
		3	0	18.38	18.06	18.22	19.80
		3	2	18.16	18.18	18.17	19.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23025/700.5	23095/707.5	23165/714.5	
						3	
		6	0	18.33	18.12	18.15	19.80
3MHz	QPSK	1	0	23.31	23.25	23.18	24.80
		1	7	23.22	23.26	23.23	24.80
		1	14	23.18	23.22	23.10	24.80
		8	0	22.37	22.31	22.15	23.80
		8	4	22.31	22.26	22.23	23.80
		8	7	22.30	22.31	22.18	23.80
		15	0	22.34	22.31	22.18	23.80
	16QAM	1	0	22.31	22.69	22.31	23.80
		1	7	22.25	22.73	22.30	23.80
		1	14	22.18	22.65	22.20	23.80
		8	0	21.45	21.41	21.27	22.80
		8	4	21.44	21.36	21.33	22.80
		8	7	21.39	21.35	21.27	22.80
		15	0	21.34	21.31	21.19	22.80
	64QAM	1	0	21.24	21.80	21.31	22.80
		1	7	21.31	21.68	21.20	22.80
		1	14	21.29	21.65	21.22	22.80
		8	0	20.36	20.54	20.42	21.80
		8	4	20.35	20.47	20.42	21.80
		8	7	20.38	20.36	20.29	21.80
		15	0	20.37	20.42	20.27	21.80
	256QAM	1	0	18.18	18.17	18.22	19.80
		1	7	18.22	18.13	18.23	19.80
		1	14	18.07	18.06	18.10	19.80
		8	0	18.27	18.33	18.25	19.80
		8	4	18.41	18.45	18.35	19.80
		8	7	18.31	18.15	18.04	19.80
		15	0	18.40	18.17	18.38	19.80
5MHz	QPSK	1	0	23.27	23.29	23.14	24.80
		1	13	23.19	23.25	23.15	24.80
		1	24	23.16	23.18	23.10	24.80
12		0	22.35	22.29	22.22	23.80	
12		6	22.30	22.24	22.22	23.80	
12		13	22.22	22.29	22.18	23.80	
25		0	22.30	22.25	22.22	23.80	
16QAM	1	0	22.47	22.81	22.34	23.80	
	1	13	22.45	22.83	22.37	23.80	



		1	24	22.44	22.76	22.30	23.80	
		12	0	21.42	21.47	21.32	22.80	
		12	6	21.38	21.41	21.31	22.80	
		12	13	21.30	21.41	21.25	22.80	
		25	0	21.33	21.34	21.16	22.80	
		64QAM	1	0	21.44	21.80	21.28	22.80
			1	13	21.40	21.96	21.42	22.80
	1		24	21.53	21.72	21.22	22.80	
	12		0	20.39	20.38	20.35	21.80	
	12		6	20.45	20.40	20.28	21.80	
	12		13	20.27	20.42	20.30	21.80	
	25		0	20.30	20.33	20.25	21.80	
	256QAM	1	0	18.29	18.39	18.14	19.80	
		1	13	18.27	18.28	18.06	19.80	
		1	24	18.05	18.09	18.17	19.80	
		12	0	18.23	18.22	18.14	19.80	
		12	6	18.28	18.30	18.20	19.80	
		12	13	18.26	18.26	18.15	19.80	
		25	0	18.24	18.40	18.08	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.27	23.12	23.18	24.80	
		1	25	23.13	23.16	23.14	24.80	
		1	49	23.15	23.04	23.12	24.80	
		25	0	22.31	22.29	22.28	23.80	
		25	13	22.32	22.28	22.26	23.80	
		25	25	22.27	22.28	22.22	23.80	
		50	0	22.33	22.25	22.23	23.80	
	16QAM	1	0	22.28	22.60	22.31	23.80	
		1	25	22.17	22.65	22.18	23.80	
		1	49	22.17	22.56	22.19	23.80	
		25	0	21.34	21.38	21.38	22.80	
		25	13	21.34	21.30	21.39	22.80	
		25	25	21.43	21.31	21.37	22.80	
		50	0	21.28	21.29	21.31	22.80	
	64QAM	1	0	21.37	21.72	21.30	22.80	
		1	25	21.22	21.64	21.13	22.80	
		1	49	21.21	21.64	21.30	22.80	
		25	0	20.30	20.31	20.46	21.80	
		25	13	20.48	20.45	20.41	21.80	
		25	25	20.56	20.43	20.31	21.80	
		50	0	20.24	20.28	20.41	21.80	
	256QAM	1	0	18.13	18.07	18.20	19.80	



		1	25	18.06	18.10	18.06	19.80
		1	49	18.23	17.88	18.04	19.80
		25	0	18.38	18.32	18.30	19.80
		25	13	18.31	18.30	18.20	19.80
		25	25	18.28	18.20	18.26	19.80
		50	0	18.42	18.17	18.23	19.80

LTE FDD Band 12 ANT 0 Level2&3&4				Conducted Power(dBm)			Tune-up Limit	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)				
				23017/699.7	23095/707.5	23173/715.3		
1.4MHz	QPSK	1	0	21.87	21.83	21.78	23.30	
		1	2	21.92	21.74	21.87	23.30	
		1	5	21.68	21.68	21.65	23.30	
		3	0	21.53	21.62	21.58	23.30	
		3	2	21.63	21.43	21.49	23.30	
		3	3	21.58	21.58	21.56	23.30	
	16QAM	6	0	21.67	21.60	21.56	23.30	
		1	0	21.57	21.63	21.61	23.30	
		1	2	21.82	21.74	21.71	23.30	
		1	5	21.78	21.83	21.79	23.30	
		3	0	21.71	21.60	21.62	23.30	
		3	2	21.83	21.65	21.70	23.30	
	64QAM	3	3	21.74	21.77	21.82	23.30	
		6	0	21.26	21.09	21.34	22.80	
		1	0	21.43	21.40	21.03	22.80	
		1	2	21.56	21.81	21.30	22.80	
		1	5	21.37	21.58	21.00	22.80	
		3	0	21.28	21.40	21.23	22.80	
	256QAM	3	2	21.26	21.76	21.36	22.80	
		3	3	21.58	21.36	21.30	22.80	
		6	0	20.42	20.13	20.60	21.80	
		1	0	18.23	18.16	17.98	19.80	
		1	2	18.29	18.20	17.95	19.80	
		1	5	18.03	18.15	18.01	19.80	
	3MHz	QPSK	3	0	18.31	18.10	18.14	19.80
			3	2	18.21	18.18	18.23	19.80
			3	3	18.21	18.24	18.04	19.80
			6	0	18.25	18.11	18.05	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				23025/700.5	23095/707.5	23165/714.5		
3MHz	QPSK	1	0	21.84	21.71	21.84	23.30	
		1	7	21.70	21.66	21.62	23.30	



		1	14	21.84	21.76	21.68	23.30	
		8	0	21.80	21.66	21.69	23.30	
		8	4	21.76	21.66	21.68	23.30	
		8	7	21.75	21.80	21.73	23.30	
		15	0	21.68	21.68	21.64	23.30	
	16QAM	1	0	21.63	21.69	21.61	23.30	
		1	7	21.53	21.45	21.58	23.30	
		1	14	21.82	21.64	21.72	23.30	
		8	0	21.34	21.35	21.27	22.80	
		8	4	21.48	21.45	21.42	22.80	
		8	7	21.39	21.41	21.18	22.80	
		15	0	21.28	21.20	21.32	22.80	
	64QAM	1	0	21.24	21.89	21.42	22.80	
		1	7	21.46	21.75	21.22	22.80	
		1	14	21.44	21.82	21.18	22.80	
		8	0	20.46	20.50	20.50	21.80	
		8	4	20.43	20.51	20.58	21.80	
		8	7	20.30	20.46	20.31	21.80	
		15	0	20.35	20.36	20.23	21.80	
	256QAM	1	0	18.34	18.10	18.15	19.80	
		1	7	18.05	18.09	18.33	19.80	
		1	14	18.09	18.26	18.00	19.80	
		8	0	18.47	18.34	18.32	19.80	
		8	4	18.18	18.21	18.41	19.80	
		8	7	18.32	18.42	18.06	19.80	
		15	0	18.36	18.38	18.24	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	21.78	21.60	21.60	23.30	
		1	13	21.66	21.71	21.64	23.30	
		1	24	21.57	21.53	21.62	23.30	
		12	0	21.89	21.70	21.75	23.30	
		12	6	21.90	21.80	21.83	23.30	
		12	13	21.80	21.79	21.75	23.30	
		25	0	21.58	21.54	21.56	23.30	
	16QAM	1	0	21.65	21.74	21.75	23.30	
		1	13	21.76	21.62	21.75	23.30	
		1	24	21.81	21.78	21.84	23.30	
		12	0	21.38	21.64	21.34	22.80	
		12	6	21.32	21.58	21.22	22.80	
		12	13	21.32	21.56	21.34	22.80	
		25	0	21.35	21.28	21.14	22.80	
64QAM	1	0	21.40	21.69	21.22	22.80		



		1	13	21.46	21.85	21.53	22.80	
		1	24	21.49	21.74	21.16	22.80	
		12	0	20.43	20.38	20.35	21.80	
		12	6	20.41	20.34	20.24	21.80	
		12	13	20.21	20.44	20.28	21.80	
		25	0	20.28	20.23	20.15	21.80	
	256QAM	1	0	18.24	18.35	18.14	19.80	
		1	13	18.26	18.17	18.07	19.80	
		1	24	18.19	18.19	18.07	19.80	
		12	0	18.35	18.33	18.24	19.80	
		12	6	18.16	18.30	18.35	19.80	
		12	13	18.35	18.36	18.13	19.80	
			25	0	18.45	18.24	18.11	19.80
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
23060/704					23095/707.5	23130/711		
10MHz	QPSK	1	0	21.58	21.77	21.54	23.30	
		1	25	21.71	21.72	21.65	23.30	
		1	49	21.75	21.81	21.86	23.30	
		25	0	21.78	21.70	21.69	23.30	
		25	13	21.53	21.61	21.53	23.30	
		25	25	21.54	21.56	21.48	23.30	
		50	0	21.79	21.84	21.78	23.30	
	16QAM	1	0	21.67	21.63	21.51	23.30	
		1	25	21.79	21.71	21.73	23.30	
		1	49	21.89	21.95	21.83	23.30	
		25	0	21.34	21.40	21.53	22.80	
		25	13	21.40	21.41	21.56	22.80	
		25	25	21.49	21.33	21.46	22.80	
		50	0	21.45	21.44	21.20	22.80	
	64QAM	1	0	21.48	21.76	21.39	22.80	
		1	25	21.33	21.81	21.15	22.80	
		1	49	21.32	21.58	21.41	22.80	
		25	0	20.40	20.47	20.58	21.80	
		25	13	20.56	20.53	20.57	21.80	
		25	25	20.64	20.49	20.37	21.80	
		50	0	20.30	20.36	20.31	21.80	
	256QAM	1	0	18.35	18.14	18.18	19.80	
		1	25	18.21	18.25	18.16	19.80	
		1	49	17.99	17.97	17.98	19.80	
		25	0	18.22	18.16	18.32	19.80	
		25	13	18.13	18.33	18.15	19.80	
		25	25	18.08	18.22	18.20	19.80	
		50	0	18.24	18.25	18.30	19.80	



LTE FDD Band 12 ANT 1 Full Power & Level 1&2&3&4&5&6&7&8				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.17	23.12	23.08	24.80
		1	2	23.18	23.21	23.06	24.80
		1	5	23.13	23.17	22.99	24.80
		3	0	23.17	23.09	23.08	24.80
		3	2	23.18	23.20	23.11	24.80
		3	3	23.11	23.14	23.08	24.80
	16QAM	6	0	22.24	22.19	22.11	23.80
		1	0	22.39	22.55	22.16	23.80
		1	2	22.41	22.65	22.18	23.80
		1	5	22.34	22.55	22.12	23.80
		3	0	22.30	22.37	22.29	23.80
		3	2	22.32	22.48	22.33	23.80
	64QAM	3	3	22.27	22.39	22.31	23.80
		6	0	21.37	21.11	21.30	22.80
		1	0	21.34	21.49	21.11	22.80
		1	2	21.52	21.72	21.26	22.80
		1	5	21.33	21.60	21.08	22.80
		3	0	21.26	21.29	21.29	22.80
	256QAM	3	2	21.26	21.63	21.34	22.80
		3	3	21.41	21.34	21.26	22.80
		6	0	20.46	20.09	20.44	21.80
		1	0	18.10	18.12	17.98	19.80
		1	2	18.17	18.20	17.97	19.80
		1	5	18.17	18.04	17.87	19.80
3MHz	QPSK	3	0	18.38	18.06	18.22	19.80
		3	2	18.16	18.18	18.17	19.80
3		3	18.27	18.11	18.01	19.80	
6		0	18.33	18.12	18.15	19.80	
1		0	23.31	23.25	23.18	24.80	
1		7	23.22	23.26	23.23	24.80	
1		14	23.18	23.22	23.10	24.80	
16QAM	8	0	22.37	22.31	22.15	23.80	
	8	4	22.31	22.26	22.23	23.80	
		8	7	22.30	22.31	22.18	23.80
		15	0	22.34	22.31	22.18	23.80
		1	0	22.31	22.69	22.31	23.80



		1	7	22.25	22.73	22.30	23.80	
		1	14	22.18	22.65	22.20	23.80	
		8	0	21.45	21.41	21.27	22.80	
		8	4	21.44	21.36	21.33	22.80	
		8	7	21.39	21.35	21.27	22.80	
		15	0	21.34	21.31	21.19	22.80	
	64QAM	1	0	21.24	21.80	21.31	22.80	
		1	7	21.31	21.68	21.20	22.80	
		1	14	21.29	21.65	21.22	22.80	
		8	0	20.36	20.54	20.42	21.80	
		8	4	20.35	20.47	20.42	21.80	
		8	7	20.38	20.36	20.29	21.80	
	256QAM	15	0	20.37	20.42	20.27	21.80	
		1	0	18.18	18.17	18.22	19.80	
		1	7	18.22	18.13	18.23	19.80	
		1	14	18.07	18.06	18.10	19.80	
		8	0	18.27	18.33	18.25	19.80	
		8	4	18.41	18.45	18.35	19.80	
		8	7	18.31	18.15	18.04	19.80	
		15	0	18.40	18.17	18.38	19.80	
		Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
23035/701.5						23095/707.5	23155/713.5	
5MHz		QPSK	1	0	23.27	23.29	23.14	24.80
			1	13	23.19	23.25	23.15	24.80
	1		24	23.16	23.18	23.10	24.80	
	12		0	22.35	22.29	22.22	23.80	
	12		6	22.30	22.24	22.22	23.80	
	12		13	22.22	22.29	22.18	23.80	
	16QAM	25	0	22.30	22.25	22.22	23.80	
		1	0	22.47	22.81	22.34	23.80	
		1	13	22.45	22.83	22.37	23.80	
		1	24	22.44	22.76	22.30	23.80	
		12	0	21.42	21.47	21.32	22.80	
		12	6	21.38	21.41	21.31	22.80	
	64QAM	12	13	21.30	21.41	21.25	22.80	
		25	0	21.33	21.34	21.16	22.80	
		1	0	21.44	21.80	21.28	22.80	
		1	13	21.40	21.96	21.42	22.80	
		1	24	21.53	21.72	21.22	22.80	
		12	0	20.39	20.38	20.35	21.80	
		12	6	20.45	20.40	20.28	21.80	
		12	13	20.27	20.42	20.30	21.80	
		25	0	20.30	20.33	20.25	21.80	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				23060/704	23095/707.5	23130/711		
10MHz	256QAM	1	0	18.29	18.39	18.14	19.80	
		1	13	18.27	18.28	18.06	19.80	
		1	24	18.05	18.09	18.17	19.80	
		12	0	18.23	18.22	18.14	19.80	
		12	6	18.28	18.30	18.20	19.80	
		12	13	18.26	18.26	18.15	19.80	
		25	0	18.24	18.40	18.08	19.80	
	10MHz	QPSK	1	0	23.27	23.12	23.18	24.80
			1	25	23.13	23.16	23.14	24.80
			1	49	23.15	23.04	23.12	24.80
			25	0	22.31	22.29	22.28	23.80
			25	13	22.32	22.28	22.26	23.80
			25	25	22.27	22.28	22.22	23.80
			50	0	22.33	22.25	22.23	23.80
		16QAM	1	0	22.28	22.60	22.31	23.80
			1	25	22.17	22.65	22.18	23.80
			1	49	22.17	22.56	22.19	23.80
			25	0	21.34	21.38	21.38	22.80
			25	13	21.34	21.30	21.39	22.80
			25	25	21.43	21.31	21.37	22.80
			50	0	21.28	21.29	21.31	22.80
64QAM		1	0	21.37	21.72	21.30	22.80	
		1	25	21.22	21.64	21.13	22.80	
		1	49	21.21	21.64	21.30	22.80	
		25	0	20.30	20.31	20.46	21.80	
		25	13	20.48	20.45	20.41	21.80	
		25	25	20.56	20.43	20.31	21.80	
		50	0	20.24	20.28	20.41	21.80	
256QAM	1	0	18.13	18.07	18.20	19.80		
	1	25	18.06	18.10	18.06	19.80		
	1	49	18.23	17.88	18.04	19.80		
	25	0	18.38	18.32	18.30	19.80		
	25	13	18.31	18.30	18.20	19.80		
	25	25	18.28	18.20	18.26	19.80		
	50	0	18.42	18.17	18.23	19.80		

LTE FDD Band 17 ANT 0 Level1&5&6&7&8				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	23.22	23.12	23.14	24.80



		1	13	23.27	23.23	23.18	24.80	
		1	24	23.27	23.24	23.13	24.80	
		12	0	22.24	22.28	22.22	23.80	
		12	6	22.32	22.30	22.19	23.80	
		12	13	22.33	22.31	22.23	23.80	
		25	0	22.32	22.27	22.19	23.80	
	16QAM	1	0	22.78	22.42	22.42	23.80	
		1	13	22.81	22.53	22.43	23.80	
		1	24	22.84	22.45	22.40	23.80	
		12	0	21.41	21.37	21.30	22.80	
		12	6	21.49	21.33	21.28	22.80	
		12	13	21.45	21.36	21.30	22.80	
	64QAM	25	0	21.39	21.22	21.23	22.80	
		1	0	21.77	21.43	21.52	22.80	
		1	13	21.76	21.51	21.33	22.80	
		1	24	21.96	21.59	21.39	22.80	
		12	0	20.35	20.48	20.20	21.80	
		12	6	20.62	20.27	20.21	21.80	
	256QAM	12	13	20.47	20.46	20.35	21.80	
		25	0	20.45	20.34	20.21	21.80	
		1	0	18.32	17.97	18.16	19.80	
		1	13	18.10	18.31	18.18	19.80	
		1	24	18.12	18.19	18.22	19.80	
		12	0	18.37	18.17	18.07	19.80	
	10MHz	QPSK	12	6	18.40	18.39	18.30	19.80
			12	13	18.24	18.35	18.18	19.80
	25		0	18.34	18.15	18.25	19.80	
	16QAM		1	0	23.18	23.10	23.08	24.80
1			25	23.20	23.11	23.14	24.80	
1			49	23.19	23.08	23.03	24.80	
25			0	22.25	22.23	22.17	23.80	
25		13	22.36	22.24	22.25	23.80		
25		25	22.27	22.29	22.29	23.80		
50		0	22.24	22.21	22.20	23.80		
16QAM	1	0	22.15	22.15	22.59	23.80		
	1	25	22.21	22.17	22.63	23.80		
	1	49	22.22	22.10	22.53	23.80		
	25	0	21.32	21.26	21.28	22.80		
	25	13	21.40	21.30	21.30	22.80		
	25	25	21.40	21.34	21.31	22.80		
	50	0	21.29	21.25	21.28	22.80		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				23780/709	23790/710	23800/711		



	64QAM	1	0	21.24	21.18	21.57	22.80
		1	25	21.16	21.18	21.64	22.80
		1	49	21.28	21.09	21.63	22.80
		25	0	20.27	20.28	20.19	21.80
		25	13	20.53	20.39	20.31	21.80
		25	25	20.46	20.39	20.25	21.80
		50	0	20.33	20.31	20.28	21.80
	256QAM	1	0	18.08	18.16	17.91	19.80
		1	25	18.25	18.21	18.16	19.80
		1	49	18.19	18.15	17.94	19.80
		25	0	18.23	18.29	18.03	19.80
		25	13	18.19	18.14	18.19	19.80
		25	25	18.26	18.17	18.00	19.80
		50	0	18.31	18.24	18.23	19.80

LTE FDD Band 17 ANT 0 Level2&3&4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	21.60	21.67	21.67	23.30
		1	13	21.70	21.67	21.63	23.30
		1	24	21.69	21.60	21.55	23.30
		12	0	21.78	21.62	21.71	23.30
		12	6	21.66	21.64	21.57	23.30
		12	13	21.64	21.57	21.62	23.30
		25	0	21.77	21.73	21.80	23.30
	16QAM	1	0	21.80	21.78	21.71	23.30
		1	13	21.60	21.64	21.70	23.30
		1	24	21.71	21.54	21.66	23.30
		12	0	21.50	21.35	21.28	22.80
		12	6	21.64	21.37	21.37	22.80
		12	13	21.41	21.38	21.45	22.80
		25	0	21.48	21.11	21.25	22.80
	64QAM	1	0	21.70	21.43	21.48	22.80
		1	13	21.69	21.64	21.46	22.80
		1	24	21.92	21.48	21.35	22.80
		12	0	20.47	20.62	20.28	21.80
		12	6	20.78	20.39	20.11	21.80
		12	13	20.41	20.38	20.25	21.80
		25	0	20.61	20.24	20.31	21.80
	256QAM	1	0	18.26	18.10	18.00	19.80
		1	13	18.22	18.23	18.23	19.80
		1	24	18.11	18.25	18.13	19.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23780/709	23790/710	23800/711	
10MHz		12	0	18.31	18.07	18.21	19.80
		12	6	18.42	18.25	18.22	19.80
		12	13	18.41	18.39	18.15	19.80
		25	0	18.33	18.17	18.31	19.80
	QPSK	1	0	21.68	21.65	21.51	23.30
		1	25	21.66	21.68	21.69	23.30
		1	49	21.65	21.55	21.57	23.30
		25	0	21.75	21.57	21.61	23.30
		25	13	21.79	21.69	21.74	23.30
		25	25	21.63	21.67	21.67	23.30
		50	0	21.61	21.52	21.48	23.30
	16QAM	1	0	21.91	21.77	21.75	23.30
		1	25	21.61	21.59	21.60	23.30
		1	49	21.76	21.75	21.78	23.30
		25	0	21.28	21.24	21.24	22.80
		25	13	21.38	21.36	21.28	22.80
		25	25	21.46	21.32	21.37	22.80
		50	0	21.23	21.23	21.26	22.80
	64QAM	1	0	21.39	21.29	21.55	22.80
		1	25	21.14	21.33	21.68	22.80
		1	49	21.26	21.09	21.78	22.80
		25	0	20.19	20.36	20.25	21.80
		25	13	20.45	20.29	20.27	21.80
		25	25	20.38	20.39	20.33	21.80
		50	0	20.29	20.31	20.32	21.80
	256QAM	1	0	18.17	18.00	18.12	19.80
		1	25	18.11	18.14	18.14	19.80
		1	49	18.07	18.11	17.86	19.80
25		0	18.18	18.29	18.22	19.80	
25		13	18.17	18.19	18.18	19.80	
25		25	18.40	18.25	18.19	19.80	
50		0	18.12	18.13	18.21	19.80	

LTE FDD Band 17				Conducted Power(dBm)			Tune-up Limit
ANT 1 Full Power &Level1&2&3&4&5&6&7&8				Channel/Frequency (MHz)			
Bandwidth	Modulation	RB size	RB offset	23755/706.5	23790/710	23825/713.5	
				5MHz	QPSK	1	
		1	13	23.27	23.23	23.18	24.80
		1	24	23.27	23.24	23.13	24.80
		12	0	22.24	22.28	22.22	23.80



		12	6	22.32	22.30	22.19	23.80	
		12	13	22.33	22.31	22.23	23.80	
		25	0	22.32	22.27	22.19	23.80	
		16QAM	1	0	22.78	22.42	22.42	23.80
			1	13	22.81	22.53	22.43	23.80
			1	24	22.84	22.45	22.40	23.80
			12	0	21.41	21.37	21.30	22.80
			12	6	21.49	21.33	21.28	22.80
			12	13	21.45	21.36	21.30	22.80
	25		0	21.39	21.22	21.23	22.80	
	64QAM	1	0	21.77	21.43	21.52	22.80	
		1	13	21.76	21.51	21.33	22.80	
		1	24	21.96	21.59	21.39	22.80	
		12	0	20.35	20.48	20.20	21.80	
		12	6	20.62	20.27	20.21	21.80	
		12	13	20.47	20.46	20.35	21.80	
		25	0	20.45	20.34	20.21	21.80	
	256QAM	1	0	18.32	17.97	18.16	19.80	
		1	13	18.10	18.31	18.18	19.80	
		1	24	18.37	18.17	18.07	19.80	
		12	0	18.40	18.39	18.30	19.80	
		12	6	18.24	18.35	18.18	19.80	
		12	13	18.34	18.15	18.25	19.80	
		25	0	18.32	17.97	18.16	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					23780/709	23790/710	23800/711	
	10MHz	QPSK	1	0	23.18	23.10	23.08	24.80
			1	25	23.20	23.11	23.14	24.80
1			49	23.19	23.08	23.03	24.80	
25			0	22.25	22.23	22.17	23.80	
25			13	22.36	22.24	22.25	23.80	
25			25	22.27	22.29	22.29	23.80	
50			0	22.24	22.21	22.20	23.80	
16QAM		1	0	22.15	22.15	22.59	23.80	
		1	25	22.21	22.17	22.63	23.80	
		1	49	22.22	22.10	22.53	23.80	
		25	0	21.32	21.26	21.28	22.80	
		25	13	21.40	21.30	21.30	22.80	
		25	25	21.40	21.34	21.31	22.80	
		50	0	21.29	21.25	21.28	22.80	
64QAM		1	0	21.24	21.18	21.57	22.80	
		1	25	21.16	21.18	21.64	22.80	
		1	49	21.28	21.09	21.63	22.80	



		25	0	20.27	20.28	20.19	21.80
		25	13	20.53	20.39	20.31	21.80
		25	25	20.46	20.39	20.25	21.80
		50	0	20.33	20.31	20.28	21.80
	256QAM	1	0	18.08	18.16	17.91	19.80
		1	25	18.25	18.21	18.16	19.80
		1	49	18.19	18.15	17.94	19.80
		25	0	18.23	18.29	18.03	19.80
		25	13	18.19	18.14	18.19	19.80
		25	25	18.26	18.17	18.00	19.80
		50	0	18.31	18.24	18.23	19.80

LTE FDD Band 26 ANT 0 Full Power & Level 1&5&6&7&8				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	23.21	23.10	22.92	24.80
		1	2	23.15	23.17	22.93	24.80
		1	5	22.99	23.09	22.90	24.80
		3	0	22.95	23.05	22.95	24.80
		3	2	22.92	22.86	22.94	24.80
		3	3	22.84	23.08	22.92	24.80
		6	0	21.91	22.11	21.98	23.80
	16QAM	1	0	22.03	22.21	22.01	23.80
		1	2	22.00	22.20	22.09	23.80
		1	5	21.88	22.11	22.02	23.80
		3	0	22.14	22.32	22.14	23.80
		3	2	22.37	22.41	22.18	23.80
		3	3	22.24	22.32	22.11	23.80
		6	0	21.35	21.07	21.19	22.80
	64QAM	1	0	21.12	21.25	20.97	22.80
		1	2	20.98	21.32	21.22	22.80
		1	5	20.87	21.06	21.09	22.80
		3	0	21.27	21.44	21.09	22.80
		3	2	21.35	21.54	21.25	22.80
		3	3	21.33	21.39	21.19	22.80
		6	0	20.39	20.21	20.29	21.80
	256QAM	1	0	18.22	18.16	17.86	19.80
		1	2	17.99	18.02	17.95	19.80
		1	5	17.93	17.97	17.94	19.80
		3	0	18.18	18.24	17.99	19.80
		3	2	18.29	18.33	18.04	19.80
		3	3	17.95	18.10	17.99	19.80



Bandwidth	Modulation	6	0	18.30	18.11	18.09	19.80
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	23.37	23.20	23.09	24.80
		1	7	23.30	23.26	23.05	24.80
		1	14	23.19	23.23	22.98	24.80
		8	0	22.11	22.07	22.14	23.80
		8	4	22.24	22.04	22.13	23.80
		8	7	22.18	21.81	22.05	23.80
		15	0	22.03	22.25	22.10	23.80
	16QAM	1	0	22.07	22.67	22.21	23.80
		1	7	22.00	22.70	22.18	23.80
		1	14	21.87	22.70	22.08	23.80
		8	0	21.52	21.36	21.15	22.80
		8	4	21.50	21.40	21.19	22.80
		8	7	21.45	21.33	21.06	22.80
		15	0	21.41	21.30	21.04	22.80
	64QAM	1	0	20.98	21.65	21.23	22.80
		1	7	20.98	21.62	21.22	22.80
		1	14	21.00	21.80	21.19	22.80
		8	0	20.64	20.42	20.25	21.80
		8	4	20.41	20.38	20.09	21.80
		8	7	20.54	20.41	20.01	21.80
		15	0	20.37	20.30	20.03	21.80
	256QAM	1	0	18.46	18.28	17.98	19.80
		1	7	18.25	18.16	17.98	19.80
		1	14	18.09	18.05	17.91	19.80
		8	0	18.41	18.29	18.23	19.80
		8	4	18.32	18.38	18.14	19.80
		8	7	18.28	18.31	18.18	19.80
		15	0	18.31	18.37	18.08	19.80
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	23.40	23.20
1	13			23.32	23.28	23.10	24.80
1	24			23.20	23.23	23.04	24.80
12	0			22.02	22.16	22.16	23.80
12	6			22.10	22.34	22.11	23.80
12	13			22.27	22.25	22.06	23.80
25	0			22.36	22.24	22.10	23.80
16QAM	1		0	22.60	22.80	22.29	23.80
	1		13	22.57	22.82	22.23	23.80
	1		24	22.44	22.79	22.22	23.80



		12	0	21.35	21.40	21.22	22.80	
		12	6	21.46	21.47	21.22	22.80	
		12	13	21.40	21.40	21.12	22.80	
		25	0	21.42	21.23	21.08	22.80	
	64QAM	1	0	21.66	21.94	21.35	22.80	
		1	13	21.66	21.94	21.35	22.80	
		1	24	21.42	21.86	21.36	22.80	
		12	0	20.35	20.36	20.18	21.80	
		12	6	20.51	20.58	20.17	21.80	
		12	13	20.39	20.37	20.26	21.80	
		25	0	20.37	20.25	20.12	21.80	
	256QAM	1	0	18.50	18.19	18.21	19.80	
		1	13	18.18	18.33	18.18	19.80	
		1	24	18.20	18.27	18.05	19.80	
		12	0	18.33	18.16	18.31	19.80	
		12	6	18.48	18.33	18.09	19.80	
		12	13	18.30	18.41	18.24	19.80	
		25	0	18.59	18.21	18.10	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					26750/820	26865/831.5	26990/844	
	10MHz	QPSK	1	0	23.38	23.22	23.10	24.80
1			25	23.23	23.14	23.02	24.80	
1			49	23.17	23.13	22.93	24.80	
25			0	22.38	22.24	22.12	23.80	
25			13	22.37	22.25	22.09	23.80	
25			25	22.25	22.23	22.10	23.80	
50			0	22.30	22.20	22.05	23.80	
16QAM		1	0	22.35	22.28	22.55	23.80	
		1	25	22.20	22.13	22.51	23.80	
		1	49	22.23	22.09	22.39	23.80	
		25	0	21.46	21.27	21.23	22.80	
		25	13	21.42	21.27	21.11	22.80	
		25	25	21.33	21.23	21.10	22.80	
		50	0	21.28	21.20	21.10	22.80	
64QAM		1	0	21.27	21.20	21.58	22.80	
		1	25	21.32	21.11	21.51	22.80	
		1	49	21.15	21.10	21.54	22.80	
		25	0	20.53	20.25	20.23	21.80	
		25	13	20.48	20.18	20.10	21.80	
		25	25	20.45	20.34	20.02	21.80	
		50	0	20.37	20.18	20.20	21.80	
256QAM		1	0	18.43	18.18	18.09	19.80	
		1	25	18.32	17.97	17.88	19.80	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				26775/822.5	26865/831.5	26965/841.5		
15MHz	QPSK	1	49	17.99	18.00	17.82	19.80	
		25	0	18.49	18.38	18.26	19.80	
		25	13	18.43	18.09	18.11	19.80	
		25	25	18.28	18.07	18.07	19.80	
		50	0	18.51	18.42	18.11	19.80	
	16QAM	16QAM	1	0	23.16	23.09	23.04	24.80
			1	38	23.04	23.03	22.94	24.80
			1	74	22.96	23.03	22.86	24.80
			36	0	22.28	22.22	22.10	23.80
			36	18	22.27	22.17	22.11	23.80
			36	39	22.22	22.16	22.08	23.80
			75	0	22.27	22.14	22.05	23.80
	64QAM	64QAM	1	0	22.57	22.55	22.02	23.80
			1	38	22.49	22.49	22.02	23.80
			1	74	22.41	22.52	21.83	23.80
			36	0	21.29	21.22	21.14	22.80
			36	18	21.37	21.18	21.18	22.80
			36	39	21.22	21.17	21.06	22.80
			75	0	21.34	21.18	21.05	22.80
	256QAM	256QAM	1	0	21.62	21.49	20.98	22.80
			1	38	21.57	21.43	21.14	22.80
			1	74	21.32	21.62	20.84	22.80
			36	0	20.33	20.23	20.07	21.80
			36	18	20.52	20.18	20.12	21.80
			36	39	20.28	20.24	20.06	21.80
			75	0	20.24	20.11	19.96	21.80
	256QAM	256QAM	1	0	18.17	18.08	17.88	19.80
			1	38	17.89	18.10	17.95	19.80
1			74	18.03	17.89	17.89	19.80	
36			0	18.26	18.12	18.11	19.80	
36			18	18.06	18.17	18.10	19.80	
36			39	17.94	18.23	17.88	19.80	
75			0	18.23	18.01	18.11	19.80	

LTE FDD Band 26 ANT 0 Level 2&3&4				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	22.31	22.20	22.02	23.30
		1	2	22.25	22.27	22.03	23.30



		1	5	22.09	22.19	22.00	23.30	
		3	0	22.05	22.15	22.05	23.30	
		3	2	22.02	21.96	22.04	23.30	
		3	3	21.94	22.18	22.02	23.30	
		6	0	21.91	22.11	21.98	23.30	
	16QAM	1	0	21.53	21.71	21.51	23.30	
		1	2	21.50	21.70	21.59	23.30	
		1	5	21.38	21.61	21.52	23.30	
		3	0	21.64	21.82	21.64	23.30	
		3	2	21.87	21.91	21.68	23.30	
		3	3	21.74	21.82	21.61	23.30	
		6	0	21.35	21.07	21.19	23.30	
	64QAM	1	0	21.12	21.25	20.97	23.30	
		1	2	20.98	21.32	21.22	23.30	
		1	5	20.87	21.06	21.09	23.30	
		3	0	21.27	21.44	21.09	23.30	
		3	2	21.35	21.54	21.25	23.30	
		3	3	21.33	21.39	21.19	23.30	
		6	0	20.39	20.21	20.29	21.80	
	256QAM	1	0	18.22	18.16	17.86	19.80	
		1	2	17.99	18.02	17.95	19.80	
		1	5	17.93	17.97	17.94	19.80	
		3	0	18.18	18.24	17.99	19.80	
		3	2	18.29	18.33	18.04	19.80	
		3	3	17.95	18.10	17.99	19.80	
		6	0	18.30	18.11	18.09	19.80	
	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	22.47	22.30	22.19	23.30	
		1	7	22.40	22.36	22.15	23.30	
		1	14	22.29	22.33	22.08	23.30	
		8	0	22.11	22.07	22.14	23.30	
		8	4	22.24	22.04	22.13	23.30	
		8	7	22.18	21.81	22.05	23.30	
		15	0	22.03	22.25	22.10	23.30	
	16QAM	1	0	21.57	22.17	21.71	23.30	
		1	7	21.50	22.20	21.68	23.30	
		1	14	21.37	22.20	21.58	23.30	
		8	0	21.52	21.36	21.15	23.30	
		8	4	21.50	21.40	21.19	23.30	
		8	7	21.45	21.33	21.06	23.30	
		15	0	21.41	21.30	21.04	23.30	
	64QAM	1	0	20.98	21.65	21.23	23.30	



		1	7	20.98	21.62	21.22	23.30
		1	14	21.00	21.80	21.19	23.30
		8	0	20.64	20.42	20.25	21.80
		8	4	20.41	20.38	20.09	21.80
		8	7	20.54	20.41	20.01	21.80
		15	0	20.37	20.30	20.03	21.80
	256QAM	1	0	18.46	18.28	17.98	19.80
		1	7	18.25	18.16	17.98	19.80
		1	14	18.09	18.05	17.91	19.80
		8	0	18.41	18.29	18.23	19.80
		8	4	18.32	18.38	18.14	19.80
		8	7	18.28	18.31	18.18	19.80
		15	0	18.31	18.37	18.08	19.80
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	22.50	22.30	22.22	23.30
		1	13	22.42	22.38	22.20	23.30
		1	24	22.30	22.33	22.14	23.30
		12	0	22.02	22.16	22.16	23.30
		12	6	22.10	22.34	22.11	23.30
		12	13	22.27	22.25	22.06	23.30
		25	0	22.36	22.24	22.10	23.30
	16QAM	1	0	22.10	22.30	21.79	23.30
		1	13	22.07	22.32	21.73	23.30
		1	24	21.94	22.29	21.72	23.30
		12	0	21.35	21.40	21.22	23.30
		12	6	21.46	21.47	21.22	23.30
		12	13	21.40	21.40	21.12	23.30
		25	0	21.42	21.23	21.08	23.30
	64QAM	1	0	21.66	21.94	21.35	23.30
		1	13	21.66	21.94	21.35	23.30
		1	24	21.42	21.86	21.36	23.30
		12	0	20.35	20.36	20.18	21.80
		12	6	20.51	20.58	20.17	21.80
		12	13	20.39	20.37	20.26	21.80
		25	0	20.37	20.25	20.12	21.80
	256QAM	1	0	18.50	18.19	18.21	19.80
		1	13	18.18	18.33	18.18	19.80
		1	24	18.20	18.27	18.05	19.80
		12	0	18.33	18.16	18.31	19.80
		12	6	18.48	18.33	18.09	19.80
		12	13	18.30	18.41	18.24	19.80
		25	0	18.59	18.21	18.10	19.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26750/820	26865/831.5	26990/844	
10MHz	QPSK	1	0	22.48	22.32	22.20	23.30
		1	25	22.33	22.24	22.12	23.30
		1	49	22.27	22.23	22.03	23.30
		25	0	22.38	22.24	22.12	23.30
		25	13	22.37	22.25	22.09	23.30
		25	25	22.25	22.23	22.10	23.30
		50	0	22.30	22.20	22.05	23.30
	16QAM	1	0	21.35	21.28	21.55	23.30
		1	25	21.20	21.13	21.51	23.30
		1	49	21.23	21.09	21.39	23.30
		25	0	21.46	21.27	21.23	23.30
		25	13	21.42	21.27	21.11	23.30
		25	25	21.33	21.23	21.10	23.30
		50	0	21.28	21.20	21.10	23.30
	64QAM	1	0	21.27	21.20	21.58	23.30
		1	25	21.32	21.11	21.51	23.30
		1	49	21.15	21.10	21.54	23.30
		25	0	20.53	20.25	20.23	21.80
		25	13	20.48	20.18	20.10	21.80
		25	25	20.45	20.34	20.02	21.80
		50	0	20.37	20.18	20.20	21.80
	256QAM	1	0	18.43	18.18	18.09	19.80
		1	25	18.32	17.97	17.88	19.80
		1	49	17.99	18.00	17.82	19.80
		25	0	18.49	18.38	18.26	19.80
		25	13	18.43	18.09	18.11	19.80
		25	25	18.28	18.07	18.07	19.80
		50	0	18.51	18.42	18.11	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
15MHz	QPSK	1	0	22.26	22.19	22.14	23.30
		1	38	22.14	22.13	22.04	23.30
		1	74	22.06	22.13	21.96	23.30
		36	0	22.28	22.22	22.10	23.30
		36	18	22.27	22.17	22.11	23.30
		36	39	22.22	22.16	22.08	23.30
		75	0	22.27	22.14	22.05	23.30
	16QAM	1	0	22.07	22.05	21.52	23.30
		1	38	21.99	21.99	21.52	23.30
		1	74	21.91	22.02	21.33	23.30
		36	0	21.29	21.22	21.14	23.30



	64QAM	36	18	21.37	21.18	21.18	23.30
		36	39	21.22	21.17	21.06	23.30
		75	0	21.34	21.18	21.05	23.30
		1	0	21.62	21.49	20.98	23.30
		1	38	21.57	21.43	21.14	23.30
		1	74	21.32	21.62	20.84	23.30
		36	0	20.33	20.23	20.07	21.80
		36	18	20.52	20.18	20.12	21.80
		36	39	20.28	20.24	20.06	21.80
	75	0	20.24	20.11	19.96	21.80	
	256QAM	1	0	18.17	18.08	17.88	19.80
		1	38	17.89	18.10	17.95	19.80
		1	74	18.03	17.89	17.89	19.80
		36	0	18.26	18.12	18.11	19.80
		36	18	18.06	18.17	18.10	19.80
		36	39	17.94	18.23	17.88	19.80
		75	0	18.23	18.01	18.11	19.80

LTE FDD Band 26				Conducted Power(dBm)			Tune-up Limit
ANT 1 Full Power &Level1&2&3&4&5&6&7&8				Channel/Frequency (MHz)			
Bandwidth	Modulation	RB size	RB offset	26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	23.21	23.10	22.92	24.80
		1	2	23.15	23.17	22.93	24.80
		1	5	22.99	23.09	22.90	24.80
		3	0	22.95	23.05	22.95	24.80
		3	2	22.92	22.86	22.94	24.80
		3	3	22.84	23.08	22.92	24.80
		6	0	21.91	22.11	21.98	23.80
	16QAM	1	0	22.03	22.21	22.01	23.80
		1	2	22.00	22.20	22.09	23.80
		1	5	21.88	22.11	22.02	23.80
		3	0	22.14	22.32	22.14	23.80
		3	2	22.37	22.41	22.18	23.80
		3	3	22.24	22.32	22.11	23.80
		6	0	21.35	21.07	21.19	22.80
	64QAM	1	0	21.12	21.25	20.97	22.80
		1	2	20.98	21.32	21.22	22.80
		1	5	20.87	21.06	21.09	22.80
		3	0	21.27	21.44	21.09	22.80
		3	2	21.35	21.54	21.25	22.80
		3	3	21.33	21.39	21.19	22.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26705/815.5	26865/831.5	27025/847.5	
	256QAM	6	0	20.39	20.21	20.29	21.80
		1	0	18.22	18.16	17.86	19.80
		1	2	17.99	18.02	17.95	19.80
		1	5	18.18	18.24	17.99	19.80
		3	0	18.29	18.33	18.04	19.80
		3	2	17.95	18.10	17.99	19.80
		3	3	18.30	18.11	18.09	19.80
		6	0	18.22	18.16	17.86	19.80
3MHz	QPSK	1	0	23.37	23.20	23.09	24.80
		1	7	23.30	23.26	23.05	24.80
		1	14	23.19	23.23	22.98	24.80
		8	0	22.11	22.07	22.14	23.80
		8	4	22.24	22.04	22.13	23.80
		8	7	22.18	21.81	22.05	23.80
		15	0	22.03	22.25	22.10	23.80
	16QAM	1	0	22.07	22.67	22.21	23.80
		1	7	22.00	22.70	22.18	23.80
		1	14	21.87	22.70	22.08	23.80
		8	0	21.52	21.36	21.15	22.80
		8	4	21.50	21.40	21.19	22.80
		8	7	21.45	21.33	21.06	22.80
		15	0	21.41	21.30	21.04	22.80
	64QAM	1	0	20.98	21.65	21.23	22.80
		1	7	20.98	21.62	21.22	22.80
		1	14	21.00	21.80	21.19	22.80
		8	0	20.64	20.42	20.25	21.80
		8	4	20.41	20.38	20.09	21.80
		8	7	20.54	20.41	20.01	21.80
		15	0	20.37	20.30	20.03	21.80
	256QAM	1	0	18.46	18.28	17.98	19.80
		1	7	18.25	18.16	17.98	19.80
		1	14	18.09	18.05	17.91	19.80
		8	0	18.41	18.29	18.23	19.80
		8	4	18.32	18.38	18.14	19.80
		8	7	18.28	18.31	18.18	19.80
		15	0	18.31	18.37	18.08	19.80
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	23.40	23.20	23.12	24.80
		1	13	23.32	23.28	23.10	24.80
		1	24	23.20	23.23	23.04	24.80



		12	0	22.02	22.16	22.16	23.80	
		12	6	22.10	22.34	22.11	23.80	
		12	13	22.27	22.25	22.06	23.80	
		25	0	22.36	22.24	22.10	23.80	
	16QAM	1	0	22.60	22.80	22.29	23.80	
		1	13	22.57	22.82	22.23	23.80	
		1	24	22.44	22.79	22.22	23.80	
		12	0	21.35	21.40	21.22	22.80	
		12	6	21.46	21.47	21.22	22.80	
		12	13	21.40	21.40	21.12	22.80	
		25	0	21.42	21.23	21.08	22.80	
	64QAM	1	0	21.66	21.94	21.35	22.80	
		1	13	21.66	21.94	21.35	22.80	
		1	24	21.42	21.86	21.36	22.80	
		12	0	20.35	20.36	20.18	21.80	
		12	6	20.51	20.58	20.17	21.80	
		12	13	20.39	20.37	20.26	21.80	
		25	0	20.37	20.25	20.12	21.80	
	256QAM	1	0	18.50	18.19	18.21	19.80	
		1	13	18.18	18.33	18.18	19.80	
		1	24	18.20	18.27	18.05	19.80	
		12	0	18.33	18.16	18.31	19.80	
		12	6	18.48	18.33	18.09	19.80	
		12	13	18.30	18.41	18.24	19.80	
		25	0	18.59	18.21	18.10	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					26750/820	26865/831.5	26990/844	
	10MHz	QPSK	1	0	23.38	23.22	23.10	24.80
1			25	23.23	23.14	23.02	24.80	
1			49	23.17	23.13	22.93	24.80	
25			0	22.38	22.24	22.12	23.80	
25			13	22.37	22.25	22.09	23.80	
25			25	22.25	22.23	22.10	23.80	
50			0	22.30	22.20	22.05	23.80	
16QAM		1	0	22.35	22.28	22.55	23.80	
		1	25	22.20	22.13	22.51	23.80	
		1	49	22.23	22.09	22.39	23.80	
		25	0	21.46	21.27	21.23	22.80	
		25	13	21.42	21.27	21.11	22.80	
		25	25	21.33	21.23	21.10	22.80	
64QAM		1	0	21.28	21.20	21.10	22.80	
		1	25	21.27	21.20	21.58	22.80	
		1	0	21.27	21.20	21.58	22.80	
		1	25	21.32	21.11	21.51	22.80	



		1	49	21.15	21.10	21.54	22.80
		25	0	20.53	20.25	20.23	21.80
		25	13	20.48	20.18	20.10	21.80
		25	25	20.45	20.34	20.02	21.80
		50	0	20.37	20.18	20.20	21.80
	256QAM	1	0	18.43	18.18	18.09	19.80
		1	25	18.32	17.97	17.88	19.80
		1	49	17.99	18.00	17.82	19.80
		25	0	18.49	18.38	18.26	19.80
		25	13	18.43	18.09	18.11	19.80
		25	25	18.28	18.07	18.07	19.80
		50	0	18.51	18.42	18.11	19.80
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
26775/822.5					26865/831.5	26965/841.5	
15MHz	QPSK	1	0	23.16	23.09	23.04	24.80
		1	38	23.04	23.03	22.94	24.80
		1	74	22.96	23.03	22.86	24.80
		36	0	22.28	22.22	22.10	23.80
		36	18	22.27	22.17	22.11	23.80
		36	39	22.22	22.16	22.08	23.80
		75	0	22.27	22.14	22.05	23.80
	16QAM	1	0	22.57	22.55	22.02	23.80
		1	38	22.49	22.49	22.02	23.80
		1	74	22.41	22.52	21.83	23.80
		36	0	21.29	21.22	21.14	22.80
		36	18	21.37	21.18	21.18	22.80
		36	39	21.22	21.17	21.06	22.80
		75	0	21.34	21.18	21.05	22.80
	64QAM	1	0	21.62	21.49	20.98	22.80
		1	38	21.57	21.43	21.14	22.80
		1	74	21.32	21.62	20.84	22.80
		36	0	20.33	20.23	20.07	21.80
		36	18	20.52	20.18	20.12	21.80
		36	39	20.28	20.24	20.06	21.80
		75	0	20.24	20.11	19.96	21.80
	256QAM	1	0	18.17	18.08	17.88	19.80
		1	38	17.89	18.10	17.95	19.80
		1	74	18.03	17.89	17.89	19.80
		36	0	18.26	18.12	18.11	19.80
		36	18	18.06	18.17	18.10	19.80
		36	39	17.94	18.23	17.88	19.80
		75	0	18.23	18.01	18.11	19.80



LTE TDD Band 38 ANT 3 Level 1				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	16.24	16.11	16.10	17.50
		1	13	16.03	15.95	15.90	17.50
		1	24	16.25	16.11	16.20	17.50
		12	0	16.15	16.13	16.14	17.50
		12	6	16.12	15.98	15.93	17.50
		12	13	16.17	16.12	16.09	17.50
		25	0	16.15	16.19	16.12	17.50
	16QAM	1	0	15.98	16.05	15.97	17.50
		1	13	15.99	15.93	16.07	17.50
		1	24	15.98	15.93	15.83	17.50
		12	0	16.03	15.85	15.89	17.50
		12	6	16.09	16.17	16.16	17.50
		12	13	16.25	16.08	16.13	17.50
		25	0	15.93	15.85	15.94	17.50
	64QAM	1	0	16.22	16.17	16.05	17.50
		1	13	16.00	15.98	15.97	17.50
		1	24	16.02	15.97	15.98	17.50
		12	0	16.24	16.15	16.19	17.50
		12	6	16.03	16.07	15.95	17.50
		12	13	15.90	15.92	15.98	17.50
		25	0	16.01	15.91	15.94	17.50
	256QAM	1	0	16.14	16.02	16.06	17.50
		1	13	16.01	15.89	15.83	17.50
		1	24	16.24	16.11	16.18	17.50
12		0	16.09	16.02	16.05	17.50	
12		6	16.02	15.93	15.93	17.50	
12		13	16.11	16.06	16.04	17.50	
25		0	16.14	16.17	16.05	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
10MHz	QPSK	1	0	15.96	15.87	15.90	17.50
		1	25	16.24	16.16	16.11	17.50
		1	49	16.18	16.03	16.12	17.50
		25	0	16.23	16.19	16.19	17.50
		25	13	16.04	15.96	16.08	17.50
		25	25	16.16	16.13	16.09	17.50
		50	0	16.06	16.08	16.01	17.50
	16QAM	1	0	16.26	16.15	16.10	17.50
		1	25	15.99	16.01	15.95	17.50



		1	49	15.91	15.92	15.93	17.50	
		25	0	16.17	16.04	16.02	17.50	
		25	13	16.12	15.96	15.98	17.50	
		25	25	16.01	16.02	15.97	17.50	
		50	0	16.20	16.06	16.00	17.50	
	64QAM	1	0	16.01	16.10	15.99	17.50	
		1	25	16.19	16.23	16.22	17.50	
		1	49	16.05	16.10	16.08	17.50	
		25	0	16.01	16.02	15.95	17.50	
		25	13	16.00	15.87	15.92	17.50	
		25	25	16.18	16.12	16.20	17.50	
		50	0	16.24	16.26	16.26	17.50	
	256QAM	1	0	15.94	15.86	15.80	17.50	
		1	25	16.15	16.09	16.04	17.50	
		1	49	16.17	15.96	16.11	17.50	
		25	0	16.22	16.16	16.13	17.50	
		25	13	16.02	15.86	15.98	17.50	
		25	25	16.16	16.11	16.01	17.50	
		50	0	16.06	16.00	16.00	17.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	16.28	16.10	16.11	17.50	
		1	38	16.07	16.04	15.99	17.50	
		1	74	15.93	15.98	15.92	17.50	
		36	0	16.26	16.24	16.10	17.50	
		36	18	16.31	16.12	16.17	17.50	
		36	39	16.21	16.16	16.18	17.50	
		75	0	16.22	16.27	16.13	17.50	
	16QAM	1	0	16.10	16.10	16.17	17.50	
		1	38	16.30	16.21	16.20	17.50	
		1	74	16.26	16.18	16.15	17.50	
		36	0	16.23	16.09	16.10	17.50	
		36	18	16.07	16.12	16.08	17.50	
		36	39	16.06	15.97	16.02	17.50	
		75	0	16.03	15.97	15.86	17.50	
	64QAM	1	0	15.93	15.88	15.93	17.50	
		1	38	15.92	15.90	15.95	17.50	
		1	74	16.20	16.18	16.10	17.50	
		36	0	16.24	16.10	16.15	17.50	
		36	18	16.00	15.97	15.92	17.50	
		36	39	16.02	15.90	15.84	17.50	
		75	0	16.09	16.05	16.06	17.50	
256QAM	1	0	16.24	16.04	16.09	17.50		



		1	38	16.03	15.98	15.98	17.50
		1	74	15.89	15.97	15.85	17.50
		36	0	16.16	16.23	16.03	17.50
		36	18	16.30	16.11	16.12	17.50
		36	39	16.11	16.07	16.08	17.50
		75	0	16.21	16.22	16.03	17.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	16.03	16.06	16.04	17.50
		1	50	16.39	16.38	16.22	17.50
		1	99	16.12	16.33	16.32	17.50
		50	0	16.22	16.24	16.26	17.50
		50	25	16.31	16.11	16.19	17.50
		50	50	16.17	16.07	16.04	17.50
		100	0	16.14	16.12	16.15	17.50
	16QAM	1	0	16.16	16.28	16.20	17.50
		1	50	16.26	16.29	16.30	17.50
		1	99	16.40	16.22	16.35	17.50
		50	0	16.07	16.11	16.07	17.50
		50	25	16.04	15.91	16.05	17.50
		50	50	15.95	15.87	15.93	17.50
		100	0	16.08	16.14	16.10	17.50
	64QAM	1	0	16.34	16.31	16.45	17.50
		1	50	16.06	16.16	15.96	17.50
		1	99	16.29	16.38	16.26	17.50
		50	0	16.05	15.98	16.01	17.50
		50	25	16.09	16.05	16.08	17.50
		50	50	16.21	16.08	16.02	17.50
		100	0	16.18	16.28	16.24	17.50
	256QAM	1	0	16.02	16.05	15.96	17.50
		1	50	16.28	16.27	16.21	17.50
		1	99	16.01	16.28	16.30	17.50
		50	0	16.15	16.19	16.22	17.50
		50	25	16.29	16.07	16.17	17.50
		50	50	16.16	15.99	16.02	17.50
		100	0	16.11	16.02	16.10	17.50

LTE TDD Band 38 ANT 3 Level 2&3&4				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	14.66	14.57	14.54	16.00
		1	13	14.59	14.63	14.60	16.00



		1	24	14.66	14.70	14.68	16.00	
		12	0	14.61	14.49	14.47	16.00	
		12	6	14.59	14.55	14.52	16.00	
		12	13	14.46	14.38	14.35	16.00	
		25	0	14.61	14.56	14.57	16.00	
	16QAM	1	0	14.59	14.61	14.60	16.00	
		1	13	14.54	14.58	14.51	16.00	
		1	24	14.76	14.58	14.70	16.00	
		12	0	14.77	14.72	14.71	16.00	
		12	6	14.63	14.62	14.68	16.00	
		12	13	14.76	14.63	14.63	16.00	
		25	0	14.63	14.61	14.64	16.00	
	64QAM	1	0	14.63	14.57	14.52	16.00	
		1	13	14.63	14.52	14.56	16.00	
		1	24	14.71	14.54	14.58	16.00	
		12	0	14.63	14.57	14.57	16.00	
		12	6	14.60	14.62	14.65	16.00	
		12	13	14.57	14.50	14.43	16.00	
		25	0	14.38	14.39	14.46	16.00	
	256QAM	1	0	14.64	14.50	14.50	16.00	
		1	13	14.56	14.53	14.50	16.00	
		1	24	14.64	14.67	14.66	16.00	
		12	0	14.57	14.41	14.39	16.00	
		12	6	14.53	14.52	14.43	16.00	
		12	13	14.43	14.31	14.34	16.00	
		25	0	14.54	14.53	14.47	16.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	14.60	14.47	14.60	16.00	
		1	25	14.42	14.47	14.40	16.00	
		1	49	14.64	14.63	14.60	16.00	
		25	0	14.62	14.61	14.68	16.00	
		25	13	14.81	14.71	14.72	16.00	
		25	25	14.51	14.44	14.38	16.00	
		50	0	14.72	14.67	14.65	16.00	
	16QAM	1	0	14.73	14.60	14.69	16.00	
		1	25	14.57	14.62	14.57	16.00	
		1	49	14.70	14.64	14.62	16.00	
		25	0	14.51	14.46	14.44	16.00	
		25	13	14.57	14.49	14.43	16.00	
		25	25	14.74	14.68	14.72	16.00	
		50	0	14.61	14.65	14.64	16.00	
64QAM	1	0	14.61	14.55	14.56	16.00		



		1	25	14.54	14.38	14.39	16.00
		1	49	14.63	14.65	14.64	16.00
		25	0	14.71	14.73	14.74	16.00
		25	13	14.48	14.49	14.55	16.00
		25	25	14.44	14.44	14.40	16.00
		50	0	14.67	14.58	14.65	16.00
	256QAM	1	0	14.56	14.41	14.49	16.00
		1	25	14.32	14.41	14.37	16.00
		1	49	14.61	14.58	14.53	16.00
		25	0	14.62	14.53	14.62	16.00
		25	13	14.76	14.64	14.62	16.00
		25	25	14.42	14.41	14.38	16.00
	50	0	14.68	14.65	14.59	16.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
37825/2577.5					38000/2595	38175/2612.5	
15MHz	QPSK	1	0	14.72	14.64	14.61	16.00
		1	38	14.69	14.59	14.71	16.00
		1	74	14.52	14.42	14.49	16.00
		36	0	14.54	14.39	14.44	16.00
		36	18	14.61	14.48	14.54	16.00
		36	39	14.76	14.67	14.62	16.00
		75	0	14.54	14.51	14.53	16.00
	16QAM	1	0	14.49	14.53	14.47	16.00
		1	38	14.59	14.51	14.62	16.00
		1	74	14.72	14.61	14.67	16.00
		36	0	14.54	14.53	14.45	16.00
		36	18	14.73	14.67	14.72	16.00
		36	39	14.62	14.49	14.53	16.00
		75	0	14.76	14.67	14.64	16.00
	64QAM	1	0	14.72	14.64	14.56	16.00
		1	38	14.71	14.70	14.74	16.00
		1	74	14.73	14.70	14.67	16.00
		36	0	14.60	14.60	14.49	16.00
		36	18	14.67	14.69	14.70	16.00
		36	39	14.50	14.49	14.51	16.00
		75	0	14.55	14.54	14.56	16.00
	256QAM	1	0	14.70	14.57	14.50	16.00
		1	38	14.69	14.55	14.63	16.00
		1	74	14.42	14.38	14.38	16.00
		36	0	14.44	14.33	14.42	16.00
		36	18	14.59	14.42	14.45	16.00
		36	39	14.73	14.61	14.51	16.00
		75	0	14.53	14.43	14.46	16.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	14.61	14.38	14.49	16.00
		1	50	14.48	14.61	14.48	16.00
		1	99	14.72	14.77	14.61	16.00
		50	0	14.69	14.56	14.54	16.00
		50	25	14.55	14.55	14.63	16.00
		50	50	14.52	14.39	14.40	16.00
		100	0	14.77	14.73	14.66	16.00
	16QAM	1	0	14.46	14.60	14.52	16.00
		1	50	14.72	14.71	14.82	16.00
		1	99	14.51	14.73	14.54	16.00
		50	0	14.57	14.50	14.53	16.00
		50	25	14.70	14.59	14.58	16.00
		50	50	14.79	14.67	14.70	16.00
		100	0	14.61	14.48	14.56	16.00
	64QAM	1	0	14.60	14.53	14.64	16.00
		1	50	14.45	14.45	14.52	16.00
		1	99	14.66	14.84	14.86	16.00
		50	0	14.72	14.65	14.53	16.00
		50	25	14.38	14.35	14.35	16.00
		50	50	14.75	14.78	14.74	16.00
		100	0	14.73	14.70	14.63	16.00
	256QAM	1	0	14.55	14.36	14.47	16.00
		1	50	14.38	14.61	14.45	16.00
		1	99	14.63	14.77	14.53	16.00
		50	0	14.63	14.55	14.48	16.00
		50	25	14.48	14.45	14.54	16.00
		50	50	14.50	14.31	14.38	16.00
		100	0	14.73	14.68	14.59	16.00

LTE TDD Band 38 ANT 3 Level 5				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	20.07	20.07	20.14	21.50
		1	13	20.26	20.15	20.13	21.50
		1	24	20.21	20.05	20.07	21.50
		12	0	20.20	20.14	20.07	21.50
		12	6	19.99	19.87	19.98	21.50
		12	13	20.13	20.04	19.96	21.50
		25	0	20.10	20.02	20.08	21.50
	16QAM	1	0	19.98	19.94	19.90	21.50



		1	13	20.09	19.97	20.11	21.50	
		1	24	19.93	19.98	20.02	21.50	
		12	0	20.24	20.06	20.05	21.50	
		12	6	19.98	19.93	19.91	21.50	
		12	13	20.21	20.14	20.19	21.50	
		25	0	20.17	20.16	20.10	21.50	
	64QAM	1	0	20.26	20.24	20.19	21.50	
		1	13	20.30	20.23	20.26	21.50	
		1	24	20.31	20.20	20.13	21.50	
		12	0	20.10	20.05	20.16	21.50	
		12	6	20.05	20.19	20.23	21.50	
		12	13	20.06	19.98	20.47	21.50	
	256QAM	25	0	19.91	20.02	20.10	21.50	
		1	0	17.71	17.83	18.03	19.50	
		1	13	17.85	17.98	18.10	19.50	
		1	24	17.78	17.83	18.07	19.50	
		12	0	17.97	17.80	18.10	19.50	
		12	6	18.03	17.92	18.24	19.50	
		12	13	17.72	17.99	18.08	19.50	
		25	0	17.92	17.81	18.21	19.50	
		Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
37800/2575						38000/2595	38200/2615	
10MHz		QPSK	1	0	20.27	20.22	20.12	21.50
			1	25	20.20	20.12	20.09	21.50
	1		49	20.08	20.00	19.98	21.50	
	25		0	19.97	19.99	19.97	21.50	
	25		13	20.01	20.00	20.06	21.50	
	25		25	20.19	20.14	20.19	21.50	
	50		0	20.13	20.15	20.06	21.50	
	16QAM	1	0	20.31	20.14	20.27	21.50	
		1	25	20.10	20.10	19.99	21.50	
		1	49	20.29	20.14	20.19	21.50	
		25	0	20.09	20.04	19.94	21.50	
		25	13	20.16	20.16	20.18	21.50	
		25	25	20.01	19.87	19.92	21.50	
		50	0	20.04	20.04	20.07	21.50	
	64QAM	1	0	20.05	19.90	19.91	21.50	
		1	25	20.07	20.15	20.06	21.50	
		1	49	20.21	20.11	20.10	21.50	
		25	0	19.87	19.99	19.94	21.50	
		25	13	19.94	19.95	20.30	21.50	
		25	25	20.11	20.09	20.11	21.50	
		50	0	20.08	20.08	20.26	21.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	256QAM	1	0	17.90	17.93	18.09	19.50
		1	25	17.86	17.90	17.92	19.50
		1	49	17.72	17.89	18.04	19.50
		25	0	17.93	17.85	17.97	19.50
		25	13	17.80	17.86	18.19	19.50
		25	25	17.81	17.82	18.00	19.50
		50	0	17.99	17.96	17.99	19.50
15MHz	QPSK	1	0	20.02	19.90	19.92	21.50
		1	38	20.24	20.14	20.08	21.50
		1	74	20.19	20.10	20.15	21.50
		36	0	20.21	20.17	20.09	21.50
		36	18	20.25	20.26	20.21	21.50
		36	39	20.01	19.97	20.07	21.50
		75	0	20.27	20.20	20.13	21.50
	16QAM	1	0	20.07	20.05	20.03	21.50
		1	38	20.11	20.11	20.09	21.50
		1	74	20.26	20.25	20.14	21.50
		36	0	20.17	20.13	20.20	21.50
		36	18	20.14	20.09	20.03	21.50
		36	39	20.09	20.04	20.04	21.50
		75	0	20.11	20.17	20.18	21.50
	64QAM	1	0	20.21	20.11	20.06	21.50
		1	38	20.10	20.12	20.16	21.50
		1	74	20.07	20.08	20.00	21.50
		36	0	20.05	20.11	20.08	21.50
		36	18	20.18	20.14	19.85	21.50
		36	39	19.86	20.06	20.30	21.50
		75	0	20.01	19.97	20.09	21.50
	256QAM	1	0	17.86	17.76	17.87	19.50
		1	38	17.68	17.73	17.78	19.50
		1	74	17.54	17.80	17.90	19.50
		36	0	17.86	17.91	18.14	19.50
		36	18	17.91	17.95	18.05	19.50
		36	39	17.68	17.79	17.92	19.50
		75	0	17.87	18.00	18.05	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	20.00	20.20	20.14	21.50
		1	50	20.30	20.19	20.15	21.50
		1	99	20.05	20.04	20.16	21.50
		50	0	20.01	19.91	19.86	21.50



		50	25	20.02	20.02	20.01	21.50
		50	50	20.06	20.08	19.97	21.50
		100	0	19.98	19.85	19.93	21.50
	16QAM	1	0	20.24	20.26	20.26	21.50
		1	50	20.09	20.17	19.94	21.50
		1	99	20.32	20.30	20.22	21.50
		50	0	20.04	20.00	19.97	21.50
		50	25	19.99	19.95	20.07	21.50
		50	50	20.13	19.96	20.05	21.50
		100	0	20.20	20.15	20.09	21.50
	64QAM	1	0	20.18	20.29	20.38	21.50
		1	50	20.30	20.41	20.33	21.50
		1	99	20.22	20.37	20.28	21.50
		50	0	19.95	20.13	20.15	21.50
		50	25	19.92	19.92	20.00	21.50
		50	50	20.11	20.24	19.98	21.50
		100	0	20.09	20.17	20.23	21.50
	256QAM	1	0	17.85	17.81	17.87	19.50
		1	50	17.87	17.69	17.78	19.50
		1	99	17.81	17.79	17.83	19.50
		50	0	17.82	18.01	18.07	19.50
		50	25	17.95	17.82	18.02	19.50
		50	50	17.84	17.98	17.87	19.50
		100	0	17.85	17.85	18.10	19.50



LTE TDD Band 38 ANT 3 Level 6&7&8				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	19.56	19.50	19.51	21.00
		1	13	19.73	19.67	19.62	21.00
		1	24	19.68	19.51	19.50	21.00
		12	0	19.68	19.63	19.70	21.00
		12	6	19.82	19.63	19.69	21.00
		12	13	19.67	19.59	19.59	21.00
		25	0	19.81	19.77	19.72	21.00
	16QAM	1	0	19.67	19.69	19.59	21.00
		1	13	19.66	19.51	19.63	21.00
		1	24	19.58	19.44	19.44	21.00
		12	0	19.71	19.67	19.65	21.00
		12	6	19.59	19.48	19.58	21.00
		12	13	19.82	19.76	19.63	21.00
		25	0	19.65	19.65	19.58	21.00
	64QAM	1	0	19.76	19.74	19.72	21.00
		1	13	19.71	19.63	19.67	21.00
		1	24	19.51	19.43	19.47	21.00
		12	0	19.58	19.44	19.41	21.00
		12	6	19.55	19.53	19.45	21.00
		12	13	19.58	19.51	19.47	21.00
		25	0	19.51	19.47	19.43	21.00
	256QAM	1	0	17.74	17.97	18.08	19.50
		1	13	17.91	17.89	17.88	19.50
		1	24	17.84	17.74	18.07	19.50
12		0	17.90	17.95	18.21	19.50	
12		6	17.77	18.14	18.19	19.50	
12		13	17.96	17.88	18.05	19.50	
25		0	18.01	17.89	18.02	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
10MHz	QPSK	1	0	37800/2575	38000/2595	38200/2615	21.00
		1	25	19.44	19.49	19.45	21.00
		1	49	19.73	19.60	19.62	21.00
		25	0	19.58	19.47	19.54	21.00
		25	13	19.72	19.66	19.65	21.00
		25	25	19.62	19.58	19.59	21.00
		25	25	19.52	19.46	19.46	21.00
	50	0	19.57	19.50	19.52	21.00	
	16QAM	1	0	19.49	19.45	19.53	21.00
1		25	19.68	19.75	19.66	21.00	



		1	49	19.66	19.52	19.61	21.00	
		25	0	19.71	19.74	19.66	21.00	
		25	13	19.71	19.62	19.63	21.00	
		25	25	19.47	19.39	19.50	21.00	
		50	0	19.65	19.58	19.70	21.00	
	64QAM	1	0	19.50	19.50	19.41	21.00	
		1	25	19.66	19.66	19.66	21.00	
		1	49	19.56	19.46	19.49	21.00	
		25	0	19.69	19.76	19.74	21.00	
		25	13	19.52	19.57	19.55	21.00	
		25	25	19.49	19.56	19.47	21.00	
		50	0	19.55	19.49	19.59	21.00	
	256QAM	1	0	17.95	17.69	17.94	19.50	
		1	25	17.70	17.81	17.89	19.50	
		1	49	17.73	17.85	17.99	19.50	
		25	0	17.78	17.98	18.12	19.50	
		25	13	17.73	17.83	18.04	19.50	
		25	25	17.98	17.82	17.99	19.50	
		50	0	17.80	17.96	18.24	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	19.62	19.61	19.59	21.00	
		1	38	19.59	19.55	19.54	21.00	
		1	74	19.46	19.40	19.46	21.00	
		36	0	19.77	19.73	19.73	21.00	
		36	18	19.75	19.69	19.73	21.00	
		36	39	19.56	19.42	19.50	21.00	
		75	0	19.44	19.37	19.37	21.00	
	16QAM	1	0	19.50	19.44	19.54	21.00	
		1	38	19.52	19.44	19.49	21.00	
		1	74	19.40	19.48	19.37	21.00	
		36	0	19.67	19.56	19.52	21.00	
		36	18	19.57	19.42	19.45	21.00	
		36	39	19.74	19.71	19.74	21.00	
		75	0	19.51	19.40	19.40	21.00	
	64QAM	1	0	19.50	19.49	19.57	21.00	
		1	38	19.73	19.63	19.72	21.00	
		1	74	19.78	19.69	19.63	21.00	
		36	0	19.70	19.63	19.71	21.00	
		36	18	19.52	19.46	19.48	21.00	
		36	39	19.79	19.78	19.71	21.00	
		75	0	19.39	19.45	19.35	21.00	
	256QAM	1	0	17.82	17.81	17.88	19.50	



		1	38	17.53	17.83	17.83	19.50
		1	74	17.57	17.71	17.87	19.50
		36	0	17.69	17.96	18.04	19.50
		36	18	17.63	18.05	18.13	19.50
		36	39	17.88	17.93	17.86	19.50
		75	0	17.84	17.87	18.22	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	19.48	19.54	19.65	21.00
		1	50	19.92	19.86	19.86	21.00
		1	99	19.49	19.62	19.62	21.00
		50	0	19.66	19.71	19.66	21.00
		50	25	19.56	19.49	19.48	21.00
		50	50	19.50	19.35	19.48	21.00
		100	0	19.62	19.52	19.64	21.00
	16QAM	1	0	19.49	19.56	19.66	21.00
		1	50	19.80	19.78	19.70	21.00
		1	99	19.62	19.60	19.69	21.00
		50	0	19.58	19.49	19.49	21.00
		50	25	19.55	19.47	19.40	21.00
		50	50	19.56	19.47	19.52	21.00
		100	0	19.50	19.40	19.50	21.00
	64QAM	1	0	19.84	19.85	19.88	21.00
		1	50	19.75	19.77	19.68	21.00
		1	99	19.70	19.73	19.80	21.00
		50	0	19.51	19.45	19.48	21.00
		50	25	19.67	19.61	19.59	21.00
		50	50	19.54	19.53	19.42	21.00
		100	0	19.61	19.57	19.55	21.00
	256QAM	1	0	17.75	17.67	18.06	19.50
		1	50	17.70	17.92	17.87	19.50
		1	99	17.67	17.70	17.89	19.50
		50	0	17.90	17.83	17.95	19.50
		50	25	17.72	17.80	18.10	19.50
		50	50	17.87	17.94	17.78	19.50
		100	0	17.84	17.97	18.19	19.50

LTE TDD Band 38				Conducted Power(dBm)			Tune-up Limit
ANT 4 Full Power & Level1&2&3&4&5&6&7&8				Channel/Frequency (MHz)			
Bandwidth	Modulation	RB size	RB offset	37775/2572.5	38000/2595	38225/2617.5	
				5MHz	QPSK	1	0
		1	13	22.83	22.97	23.05	24.50



		1	24	22.78	22.90	23.01	24.50	
		12	0	21.93	21.95	22.06	23.50	
		12	6	21.92	21.93	22.04	23.50	
		12	13	21.90	21.98	22.08	23.50	
		25	0	21.88	21.92	22.08	23.50	
	16QAM	1	0	22.10	22.17	22.44	23.50	
		1	13	22.11	22.23	22.47	23.50	
		1	24	22.02	22.21	22.44	23.50	
		12	0	20.95	20.93	21.21	22.50	
		12	6	20.99	20.95	21.19	22.50	
		12	13	20.93	20.99	21.19	22.50	
		25	0	20.92	20.98	21.10	22.50	
	64QAM	1	0	21.13	21.13	21.57	22.50	
		1	13	21.18	21.33	21.50	22.50	
		1	24	20.97	21.15	21.58	22.50	
		12	0	20.04	19.97	20.26	21.50	
		12	6	20.03	20.07	20.27	21.50	
		12	13	19.90	20.08	20.31	21.50	
		25	0	20.01	20.02	20.16	21.50	
	256QAM	1	0	17.80	17.86	18.08	19.50	
		1	13	17.94	17.86	17.94	19.50	
		1	24	17.66	17.91	17.84	19.50	
		12	0	17.96	17.86	18.13	19.50	
		12	6	17.97	18.14	18.14	19.50	
		12	13	17.97	17.95	18.09	19.50	
		25	0	17.95	18.07	18.07	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.85	22.85	23.04	24.50	
		1	25	22.77	22.89	23.00	24.50	
		1	49	22.89	22.85	23.00	24.50	
		25	0	21.95	21.96	21.99	23.50	
		25	13	21.98	21.95	22.05	23.50	
		25	25	21.99	22.01	22.06	23.50	
		50	0	21.98	21.98	22.01	23.50	
	16QAM	1	0	22.22	22.33	22.40	23.50	
		1	25	22.14	22.32	22.31	23.50	
		1	49	22.20	22.33	22.36	23.50	
		25	0	21.04	20.98	21.08	22.50	
		25	13	21.00	20.97	21.16	22.50	
		25	25	21.01	21.02	21.10	22.50	
		50	0	20.95	21.02	21.07	22.50	
	64QAM	1	0	21.20	21.33	21.47	22.50	



		1	25	21.17	21.38	21.23	22.50	
		1	49	21.17	21.41	21.33	22.50	
		25	0	19.95	20.03	20.00	21.50	
		25	13	20.02	19.87	20.22	21.50	
		25	25	20.01	19.97	20.21	21.50	
		50	0	19.98	19.98	20.14	21.50	
	256QAM	1	0	17.72	17.75	17.97	19.50	
		1	25	17.69	17.89	17.93	19.50	
		1	49	17.89	17.71	18.01	19.50	
		25	0	17.94	17.81	18.03	19.50	
		25	13	17.95	18.07	18.08	19.50	
		25	25	17.85	17.88	18.09	19.50	
			50	0	17.99	17.94	18.08	19.50
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
37825/2577.5					38000/2595	38175/2612.5		
15MHz	QPSK	1	0	22.76	22.85	23.04	24.50	
		1	38	22.70	22.86	22.95	24.50	
		1	74	22.71	22.78	22.89	24.50	
		36	0	21.94	21.96	22.03	23.50	
		36	18	21.95	21.95	21.98	23.50	
		36	39	21.88	21.94	22.02	23.50	
		75	0	21.89	21.90	22.01	23.50	
	16QAM	1	0	22.08	22.33	22.28	23.50	
		1	38	22.09	22.29	22.30	23.50	
		1	74	22.03	22.27	22.19	23.50	
		36	0	20.97	20.97	21.07	22.50	
		36	18	20.93	20.93	21.03	22.50	
		36	39	20.93	20.97	21.05	22.50	
		75	0	20.95	20.96	21.00	22.50	
	64QAM	1	0	21.23	21.23	21.41	22.50	
		1	38	21.10	21.33	21.39	22.50	
		1	74	21.10	21.25	21.15	22.50	
		36	0	20.05	19.93	20.02	21.50	
		36	18	20.02	19.86	20.05	21.50	
		36	39	19.90	19.96	20.08	21.50	
		75	0	19.99	20.03	20.03	21.50	
	256QAM	1	0	17.82	17.86	18.14	19.50	
		1	38	17.77	17.93	17.82	19.50	
		1	74	17.75	17.72	17.85	19.50	
		36	0	17.96	17.96	18.02	19.50	
		36	18	17.78	17.90	18.13	19.50	
		36	39	17.90	17.77	17.91	19.50	
		75	0	17.88	18.02	18.05	19.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	22.76	22.84	23.00	24.50
		1	50	22.79	22.85	22.91	24.50
		1	99	22.75	22.78	22.86	24.50
		50	0	21.86	21.96	22.05	23.50
		50	25	21.91	21.93	22.06	23.50
		50	50	21.90	21.95	21.97	23.50
		100	0	21.92	21.92	21.95	23.50
	16QAM	1	0	22.10	22.15	22.37	23.50
		1	50	22.11	22.09	22.32	23.50
		1	99	22.12	22.04	22.23	23.50
		50	0	20.86	21.02	21.08	22.50
		50	25	20.92	20.97	21.13	22.50
		50	50	20.91	21.01	21.08	22.50
		100	0	20.91	20.95	20.99	22.50
	64QAM	1	0	21.04	21.26	21.31	22.50
		1	50	21.17	21.14	21.46	22.50
		1	99	21.12	20.97	21.37	22.50
		50	0	19.91	19.99	20.21	21.50
		50	25	19.84	19.96	20.08	21.50
		50	50	20.03	20.12	20.04	21.50
		100	0	19.95	19.99	20.03	21.50
	256QAM	1	0	17.85	17.83	17.99	19.50
		1	50	17.86	17.78	18.02	19.50
		1	99	17.69	17.76	17.78	19.50
		50	0	17.71	17.85	17.95	19.50
		50	25	17.81	17.94	17.94	19.50
		50	50	17.95	17.93	17.95	19.50
		100	0	17.81	17.96	18.18	19.50

LTE TDD Band 41 ANT 3 Level1				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/249	40148/254	40620/25	41093/264	41565/268	
5MHz	QPSK	1	0	8.5	5.8	93	0.3	7.5	17.00
		1	13	15.47	15.52	15.42	15.42	15.48	17.00
		1	24	15.59	15.52	15.58	15.44	15.46	17.00
		12	0	15.56	15.49	15.54	15.53	15.49	17.00
		12	6	15.59	15.63	15.62	15.66	15.65	17.00
		12	13	15.70	15.58	15.64	15.66	15.66	17.00
		12	13	15.75	15.60	15.62	15.64	15.69	17.00
		25	0	15.71	15.65	15.58	15.68	15.68	17.00



	16QAM	1	0	15.62	15.44	15.55	15.43	15.51	17.00
		1	13	15.70	15.59	15.63	15.59	15.69	17.00
		1	24	15.60	15.48	15.57	15.52	15.58	17.00
		12	0	15.60	15.66	15.55	15.52	15.66	17.00
		12	6	15.44	15.40	15.47	15.36	15.39	17.00
		12	13	15.53	15.59	15.54	15.60	15.53	17.00
		25	0	15.56	15.45	15.55	15.46	15.60	17.00
	64QAM	1	0	15.44	15.46	15.51	15.42	15.50	17.00
		1	13	15.57	15.46	15.54	15.46	15.52	17.00
		1	24	15.74	15.59	15.68	15.59	15.54	17.00
		12	0	15.66	15.60	15.57	15.52	15.62	17.00
		12	6	15.39	15.45	15.45	15.48	15.47	17.00
		12	13	15.53	15.38	15.51	15.53	15.38	17.00
		25	0	15.70	15.58	15.69	15.72	15.62	17.00
	256QAM	1	0	15.39	15.47	15.37	15.42	15.43	17.00
		1	13	15.56	15.47	15.52	15.42	15.40	17.00
		1	24	15.45	15.42	15.54	15.45	15.39	17.00
		12	0	15.59	15.62	15.55	15.60	15.65	17.00
		12	6	15.63	15.56	15.57	15.64	15.62	17.00
		12	13	15.69	15.53	15.61	15.57	15.61	17.00
		25	0	15.66	15.61	15.50	15.59	15.66	17.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/250	40160/254	40620/25	41080/263	41540/268	
10MHz	QPSK	1	0	15.58	15.50	15.50	15.47	15.62	17.00
		1	25	15.64	15.57	15.50	15.59	15.60	17.00
		1	49	15.66	15.55	15.59	15.64	15.67	17.00
		25	0	15.50	15.39	15.38	15.40	15.37	17.00
		25	13	15.71	15.65	15.60	15.70	15.74	17.00
		25	25	15.53	15.45	15.36	15.39	15.48	17.00
		50	0	15.47	15.41	15.48	15.37	15.36	17.00
	16QAM	1	0	15.59	15.62	15.58	15.51	15.55	17.00
		1	25	15.60	15.46	15.46	15.44	15.47	17.00
		1	49	15.66	15.58	15.48	15.61	15.61	17.00
		25	0	15.58	15.58	15.45	15.51	15.56	17.00
		25	13	15.52	15.45	15.43	15.43	15.50	17.00
		25	25	15.72	15.72	15.67	15.63	15.73	17.00
		50	0	15.56	15.54	15.60	15.57	15.51	17.00
	64QAM	1	0	15.62	15.56	15.56	15.55	15.56	17.00
		1	25	15.64	15.50	15.58	15.52	15.46	17.00
		1	49	15.74	15.60	15.74	15.68	15.62	17.00
		25	0	15.44	15.41	15.34	15.46	15.33	17.00
		25	13	15.71	15.67	15.64	15.63	15.69	17.00



		25	25	15.42	15.49	15.46	15.48	15.37	17.00
		50	0	15.75	15.69	15.69	15.74	15.61	17.00
	256QAM	1	0	15.50	15.49	15.50	15.40	15.56	17.00
		1	25	15.54	15.47	15.49	15.58	15.57	17.00
		1	49	15.64	15.54	15.57	15.61	15.58	17.00
		25	0	15.44	15.30	15.36	15.39	15.31	17.00
		25	13	15.60	15.65	15.59	15.59	15.66	17.00
		25	25	15.49	15.42	15.25	15.32	15.44	17.00
		50	0	15.46	15.40	15.37	15.33	15.31	17.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/250 3.5	40173/254 8.3	40620/25 93	41068/263 7.8	41515/268 2.5	
15MHz	QPSK	1	0	15.60	15.56	15.58	15.57	15.50	17.00
		1	38	15.68	15.64	15.63	15.68	15.54	17.00
		1	74	15.43	15.48	15.51	15.36	15.43	17.00
		36	0	15.54	15.60	15.49	15.53	15.45	17.00
		36	18	15.80	15.69	15.73	15.72	15.65	17.00
		36	39	15.63	15.65	15.61	15.67	15.59	17.00
		75	0	15.68	15.68	15.73	15.74	15.64	17.00
	16QAM	1	0	15.76	15.66	15.73	15.62	15.74	17.00
		1	38	15.81	15.65	15.72	15.78	15.68	17.00
		1	74	15.47	15.48	15.40	15.45	15.43	17.00
		36	0	15.63	15.57	15.58	15.68	15.57	17.00
		36	18	15.63	15.57	15.48	15.46	15.47	17.00
		36	39	15.57	15.43	15.44	15.45	15.45	17.00
		75	0	15.67	15.66	15.69	15.69	15.62	17.00
	64QAM	1	0	15.57	15.48	15.55	15.54	15.58	17.00
		1	38	15.53	15.52	15.58	15.43	15.52	17.00
		1	74	15.58	15.58	15.65	15.59	15.60	17.00
		36	0	15.73	15.78	15.70	15.71	15.68	17.00
		36	18	15.71	15.66	15.63	15.70	15.65	17.00
		36	39	15.57	15.54	15.41	15.47	15.48	17.00
		75	0	15.68	15.66	15.69	15.73	15.67	17.00
	256QAM	1	0	15.60	15.51	15.57	15.53	15.50	17.00
		1	38	15.58	15.57	15.58	15.64	15.44	17.00
		1	74	15.43	15.37	15.50	15.29	15.42	17.00
		36	0	15.45	15.57	15.45	15.47	15.38	17.00
		36	18	15.75	15.63	15.64	15.68	15.60	17.00
		36	39	15.62	15.55	15.52	15.62	15.48	17.00
		75	0	15.63	15.62	15.67	15.66	15.59	17.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/250 6	40185/254 9.5	40620/25 93	41055/263 6.5	41490/268 0	



20MHz	QPSK	1	0	15.50	15.52	15.53	15.48	15.53	17.00
		1	50	15.92	15.77	15.74	15.78	15.89	17.00
		1	99	15.97	15.95	15.78	15.77	15.91	17.00
		50	0	15.41	15.47	15.45	15.43	15.40	17.00
		50	25	15.56	15.48	15.48	15.57	15.50	17.00
		50	50	15.44	15.36	15.49	15.42	15.48	17.00
		100	0	15.68	15.66	15.60	15.56	15.55	17.00
	16QAM	1	0	15.87	15.86	15.73	15.77	15.66	17.00
		1	50	15.76	15.73	15.83	15.62	15.88	17.00
		1	99	15.95	15.76	15.91	15.78	15.88	17.00
		50	0	15.48	15.50	15.54	15.43	15.58	17.00
		50	25	15.55	15.50	15.46	15.39	15.38	17.00
		50	50	15.81	15.75	15.70	15.64	15.66	17.00
		100	0	15.65	15.67	15.53	15.66	15.55	17.00
	64QAM	1	0	15.82	15.90	15.86	15.89	15.87	17.00
		1	50	15.92	15.73	15.71	15.73	15.66	17.00
		1	99	15.58	15.80	15.69	15.56	15.73	17.00
		50	0	15.54	15.44	15.49	15.49	15.40	17.00
		50	25	15.62	15.58	15.60	15.69	15.59	17.00
		50	50	15.65	15.47	15.58	15.61	15.51	17.00
		100	0	15.55	15.64	15.53	15.57	15.61	17.00
	256QAM	1	0	15.41	15.47	15.44	15.41	15.46	17.00
		1	50	15.91	15.72	15.72	15.73	15.80	17.00
		1	99	15.93	15.92	15.75	15.68	15.83	17.00
		50	0	15.39	15.36	15.41	15.34	15.40	17.00
		50	25	15.48	15.46	15.47	15.47	15.46	17.00
		50	50	15.38	15.34	15.43	15.39	15.47	17.00
		100	0	15.60	15.65	15.58	15.50	15.53	17.00

LTE TDD Band 41 ANT 3 Level2&3&4				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/249 8.5	40148/254 5.8	40620/25 93	41093/264 0.3	41565/268 7.5	
5MHz	QPSK	1	0	14.46	14.45	14.45	14.41	14.38	16.00
		1	13	14.55	14.52	14.47	14.46	14.50	16.00
		1	24	14.72	14.64	14.64	14.56	14.54	16.00
		12	0	14.64	14.53	14.52	14.62	14.52	16.00
		12	6	14.44	14.48	14.43	14.49	14.50	16.00
		12	13	14.61	14.52	14.63	14.63	14.54	16.00
		25	0	14.53	14.58	14.58	14.51	14.45	16.00
	16QAM	1	0	14.52	14.46	14.56	14.50	14.48	16.00
		1	13	14.74	14.64	14.66	14.71	14.65	16.00



		1	24	14.60	14.64	14.58	14.55	14.51	16.00	
		12	0	14.67	14.61	14.57	14.68	14.60	16.00	
		12	6	14.57	14.56	14.60	14.57	14.48	16.00	
		12	13	14.42	14.38	14.39	14.43	14.48	16.00	
		25	0	14.69	14.51	14.62	14.65	14.54	16.00	
	64QAM	1	0	14.52	14.51	14.51	14.49	14.50	16.00	
		1	13	14.62	14.66	14.64	14.65	14.58	16.00	
		1	24	14.66	14.66	14.76	14.69	14.63	16.00	
		12	0	14.71	14.65	14.71	14.65	14.65	16.00	
		12	6	14.69	14.68	14.71	14.59	14.73	16.00	
		12	13	14.54	14.42	14.45	14.38	14.43	16.00	
		25	0	14.68	14.64	14.60	14.66	14.66	16.00	
	256QAM	1	0	14.43	14.42	14.42	14.31	14.29	16.00	
		1	13	14.48	14.41	14.42	14.46	14.47	16.00	
		1	24	14.62	14.56	14.59	14.51	14.46	16.00	
		12	0	14.63	14.48	14.49	14.61	14.50	16.00	
		12	6	14.40	14.40	14.38	14.38	14.43	16.00	
		12	13	14.60	14.45	14.57	14.58	14.51	16.00	
		25	0	14.49	14.57	14.54	14.40	14.40	16.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
					39700/250 1	40160/254 7	40620/25 93	41080/263 9	41540/268 5	
10MHz	QPSK	1	0	14.53	14.42	14.47	14.50	14.38	16.00	
		1	25	14.83	14.64	14.63	14.68	14.74	16.00	
		1	49	14.61	14.64	14.65	14.66	14.69	16.00	
		25	0	14.50	14.39	14.43	14.45	14.44	16.00	
		25	13	14.64	14.52	14.64	14.53	14.57	16.00	
		25	25	14.60	14.54	14.52	14.54	14.43	16.00	
		50	0	14.65	14.71	14.60	14.65	14.70	16.00	
	16QAM	1	0	14.61	14.49	14.55	14.50	14.58	16.00	
		1	25	14.50	14.39	14.39	14.40	14.35	16.00	
		1	49	14.55	14.62	14.57	14.60	14.53	16.00	
		25	0	14.60	14.55	14.53	14.58	14.60	16.00	
		25	13	14.81	14.67	14.70	14.66	14.66	16.00	
		25	25	14.77	14.58	14.61	14.72	14.69	16.00	
		50	0	14.67	14.63	14.57	14.54	14.64	16.00	
	64QAM	1	0	14.52	14.45	14.41	14.49	14.38	16.00	
		1	25	14.66	14.62	14.66	14.67	14.68	16.00	
		1	49	14.72	14.65	14.74	14.61	14.70	16.00	
		25	0	14.47	14.38	14.40	14.53	14.44	16.00	
		25	13	14.50	14.52	14.42	14.51	14.40	16.00	
		25	25	14.56	14.55	14.59	14.49	14.53	16.00	
		50	0	14.75	14.67	14.61	14.73	14.65	16.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/250 3.5	40173/254 8.3	40620/25 93	41068/263 7.8	41515/268 2.5	
15MHz	256QAM	1	0	14.50	14.32	14.41	14.42	14.29	16.00
		1	25	14.81	14.58	14.59	14.61	14.73	16.00
		1	49	14.61	14.64	14.61	14.64	14.58	16.00
		25	0	14.45	14.37	14.41	14.41	14.38	16.00
		25	13	14.60	14.50	14.59	14.50	14.47	16.00
		25	25	14.58	14.49	14.47	14.43	14.39	16.00
		50	0	14.60	14.71	14.51	14.63	14.68	16.00
15MHz	QPSK	1	0	14.68	14.74	14.61	14.63	14.71	16.00
		1	38	14.59	14.49	14.50	14.54	14.56	16.00
		1	74	14.45	14.46	14.51	14.53	14.52	16.00
		36	0	14.69	14.72	14.67	14.66	14.66	16.00
		36	18	14.56	14.60	14.51	14.49	14.54	16.00
		36	39	14.50	14.57	14.56	14.57	14.49	16.00
		75	0	14.79	14.62	14.70	14.59	14.72	16.00
	16QAM	1	0	14.62	14.58	14.61	14.71	14.65	16.00
		1	38	14.51	14.43	14.52	14.48	14.51	16.00
		1	74	14.65	14.58	14.62	14.57	14.52	16.00
		36	0	14.76	14.67	14.65	14.73	14.74	16.00
		36	18	14.45	14.36	14.42	14.39	14.39	16.00
		36	39	14.83	14.66	14.64	14.69	14.71	16.00
		75	0	14.57	14.56	14.52	14.60	14.51	16.00
	64QAM	1	0	14.59	14.50	14.63	14.56	14.56	16.00
		1	38	14.76	14.69	14.66	14.77	14.77	16.00
		1	74	14.67	14.67	14.66	14.64	14.61	16.00
		36	0	14.52	14.37	14.42	14.44	14.43	16.00
		36	18	14.43	14.45	14.39	14.45	14.52	16.00
		36	39	14.62	14.50	14.58	14.55	14.52	16.00
		75	0	14.61	14.52	14.62	14.55	14.54	16.00
	256QAM	1	0	14.62	14.64	14.57	14.54	14.68	16.00
		1	38	14.48	14.47	14.44	14.48	14.47	16.00
		1	74	14.43	14.45	14.42	14.51	14.51	16.00
		36	0	14.60	14.65	14.58	14.64	14.55	16.00
		36	18	14.55	14.54	14.46	14.40	14.50	16.00
		36	39	14.42	14.49	14.54	14.49	14.40	16.00
		75	0	14.69	14.53	14.66	14.51	14.69	16.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/250 6	40185/254 9.5	40620/25 93	41055/263 6.5	41490/268 0	
20MHz	QPSK	1	0	14.78	14.80	14.60	14.54	14.76	16.00



		1	50	14.64	14.76	14.68	14.89	14.82	16.00
		1	99	14.79	14.69	14.66	14.55	14.75	16.00
		50	0	14.66	14.68	14.61	14.65	14.62	16.00
		50	25	14.62	14.68	16.00	14.64	14.60	16.00
		50	50	14.55	14.52	14.49	14.53	14.49	16.00
		100	0	14.78	14.61	14.62	14.64	14.73	16.00
	16QAM	1	0	14.89	14.84	14.97	14.69	14.70	16.00
		1	50	14.80	14.88	14.73	14.86	14.72	16.00
		1	99	14.41	14.48	14.52	14.65	14.46	16.00
		50	0	14.72	14.78	14.73	14.64	14.75	16.00
		50	25	14.81	14.66	14.72	14.69	14.74	16.00
		50	50	14.54	14.53	14.54	14.53	14.52	16.00
	64QAM	100	0	14.72	14.54	14.52	14.61	14.61	16.00
		1	0	14.84	14.72	14.68	14.79	14.74	16.00
		1	50	14.59	14.65	14.79	14.65	14.89	16.00
		1	99	14.88	14.76	14.63	14.90	14.65	16.00
		50	0	14.40	14.47	14.48	14.38	14.45	16.00
		50	25	14.76	14.64	14.65	14.65	14.70	16.00
	256QAM	50	50	14.50	14.41	14.47	14.46	14.41	16.00
		100	0	14.46	14.44	14.48	14.55	14.42	16.00
		1	0	14.70	14.79	14.57	14.51	14.66	16.00
		1	50	14.63	14.75	14.66	14.80	14.76	16.00
		1	99	14.79	14.60	14.57	14.49	14.67	16.00
		50	0	14.60	14.62	14.52	14.61	14.60	16.00
		50	25	14.59	14.64	14.65	14.59	14.60	16.00
		50	50	14.48	14.51	14.44	14.45	14.47	16.00
		100	0	14.72	14.51	14.55	14.56	14.73	16.00

LTE TDD Band 41 ANT 3 Level5				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/249 8.5	40148/254 5.8	40620/25 93	41093/264 0.3	41565/268 7.5	
5MHz	QPSK	1	0	20.06	19.90	20.03	20.03	19.92	21.50
		1	13	20.20	20.22	20.09	20.13	20.16	21.50
		1	24	19.97	20.00	20.04	19.91	19.90	21.50
		12	0	20.13	20.05	20.05	20.07	20.02	21.50
		12	6	20.31	20.16	20.20	20.25	20.17	21.50
		12	13	19.96	20.01	19.98	19.97	20.00	21.50
	16QAM	25	0	20.22	20.09	20.06	20.15	20.06	21.50
		1	0	20.27	20.13	20.23	20.09	20.10	21.50
		1	13	20.19	20.15	20.01	20.14	20.12	21.50
		1	24	20.15	20.14	20.10	20.09	20.12	21.50



		12	0	20.02	20.03	19.95	20.04	20.02	21.50	
		12	6	20.29	20.21	20.15	20.21	20.28	21.50	
		12	13	20.24	20.17	20.11	20.25	20.15	21.50	
		25	0	20.06	19.86	19.96	19.98	19.98	21.50	
	64QAM	1	0	20.09	20.03	20.07	20.11	20.00	21.50	
		1	13	20.23	20.27	20.25	20.16	20.18	21.50	
		1	24	20.01	20.02	20.03	19.93	19.92	21.50	
		12	0	20.30	20.26	20.10	19.92	19.77	21.50	
		12	6	20.31	20.40	20.43	19.59	19.97	21.50	
		12	13	20.51	20.39	20.43	19.89	19.74	21.50	
		25	0	20.30	20.18	20.15	19.91	19.89	21.50	
	256QAM	1	0	18.03	18.09	18.09	17.84	17.60	19.50	
		1	13	18.19	18.24	18.19	18.02	17.65	19.50	
		1	24	18.03	18.17	17.87	18.05	17.53	19.50	
		12	0	18.20	18.11	18.13	17.98	17.79	19.50	
		12	6	18.33	18.13	18.18	18.34	17.91	19.50	
		12	13	18.11	18.14	18.03	18.37	17.76	19.50	
		25	0	18.07	18.35	18.09	18.02	17.66	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
					39700/250 1	40160/254 7	40620/25 93	41080/263 9	41540/268 5	
	10MHz	QPSK	1	0	20.10	20.08	20.02	20.01	20.06	21.50
1			25	20.08	20.08	19.93	20.07	20.05	21.50	
1			49	20.16	20.24	20.11	20.11	20.23	21.50	
25			0	20.16	20.08	20.08	20.18	20.08	21.50	
25			13	19.96	19.89	19.94	19.89	19.85	21.50	
25			25	19.97	19.87	19.94	19.98	19.91	21.50	
50			0	20.15	20.13	20.13	20.15	20.23	21.50	
16QAM		1	0	20.04	20.05	20.08	20.05	20.04	21.50	
		1	25	20.20	20.19	20.20	20.18	20.22	21.50	
		1	49	20.08	20.01	19.99	19.95	20.01	21.50	
		25	0	19.96	19.87	19.93	19.93	19.92	21.50	
		25	13	19.94	20.03	19.90	20.02	19.98	21.50	
		25	25	20.03	20.03	19.95	20.03	20.00	21.50	
		50	0	20.22	20.02	20.11	20.03	20.11	21.50	
64QAM		1	0	19.96	19.97	19.98	19.96	19.95	21.50	
		1	25	20.00	19.87	19.89	20.01	19.86	21.50	
		1	49	20.04	20.04	20.05	20.08	20.03	21.50	
		25	0	20.40	20.40	20.10	20.06	19.89	21.50	
		25	13	20.35	20.56	20.53	19.53	20.09	21.50	
		25	25	20.61	20.37	20.55	19.83	19.70	21.50	
		50	0	20.26	20.14	20.07	19.85	19.83	21.50	
256QAM	1	0	17.95	18.01	18.08	18.07	17.56	19.50		



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39725/250 3.5	40173/254 8.3	40620/25 93	41068/263 7.8	41515/268 2.5	
		1	25	18.01	17.98	17.89	17.97	17.67	19.50
		1	49	17.91	17.88	18.14	17.94	17.58	19.50
		25	0	18.07	18.20	18.22	18.12	17.86	19.50
		25	13	18.19	18.09	18.26	17.97	17.74	19.50
		25	25	18.22	17.99	18.07	17.99	17.60	19.50
		50	0	17.94	18.14	18.16	18.23	17.63	19.50
15MHz	QPSK	1	0	20.20	20.02	20.07	20.08	20.02	21.50
		1	38	20.03	20.01	19.97	20.08	20.12	21.50
		1	74	20.17	20.19	20.07	20.07	20.14	21.50
		36	0	20.02	20.01	19.94	19.93	19.97	21.50
		36	18	20.19	20.20	20.15	20.17	20.10	21.50
		36	39	20.13	20.07	20.11	20.08	20.13	21.50
		75	0	20.02	20.00	19.97	20.08	20.07	21.50
	16QAM	1	0	20.10	20.04	20.12	20.15	20.14	21.50
		1	38	19.98	20.06	20.06	19.94	20.00	21.50
		1	74	20.19	20.17	20.13	20.09	20.12	21.50
		36	0	19.89	19.93	19.98	19.97	19.92	21.50
		36	18	20.01	20.02	20.01	19.99	20.09	21.50
		36	39	20.05	19.98	20.00	20.02	19.91	21.50
		75	0	20.14	20.12	20.08	20.07	20.10	21.50
	64QAM	1	0	19.93	19.89	20.00	19.93	20.03	21.50
		1	38	20.16	20.06	20.07	20.14	20.13	21.50
		1	74	20.23	20.23	20.23	20.11	20.09	21.50
		36	0	20.34	20.42	20.04	19.96	19.83	21.50
		36	18	20.25	20.34	20.49	19.75	19.87	21.50
		36	39	20.61	20.53	20.55	20.05	19.86	21.50
		75	0	20.32	20.24	20.17	19.99	19.95	21.50
	256QAM	1	0	17.98	17.79	18.06	18.14	17.55	19.50
		1	38	17.85	17.98	17.79	18.11	17.67	19.50
		1	74	17.89	17.84	18.03	18.13	17.63	19.50
		36	0	18.15	18.02	17.99	18.34	17.69	19.50
		36	18	18.10	18.12	18.09	17.99	17.74	19.50
		36	39	17.99	17.94	18.00	18.13	17.82	19.50
		75	0	18.05	17.90	18.10	18.15	17.78	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/250 6	40185/254 9.5	40620/25 93	41055/263 6.5	41490/268 0	
20MHz	QPSK	1	0	20.17	19.93	20.10	19.92	20.10	21.50
		1	50	20.19	20.22	20.15	20.25	20.14	21.50



		1	99	19.96	20.09	19.99	20.18	20.12	21.50
		50	0	20.22	20.04	20.18	20.12	20.08	21.50
		50	25	19.93	19.90	19.91	20.00	19.97	21.50
		50	50	20.23	20.20	20.15	20.11	20.15	21.50
		100	0	19.98	19.94	19.91	19.96	19.94	21.50
	16QAM	1	0	20.19	20.38	20.19	20.37	20.41	21.50
		1	50	20.14	20.02	20.18	20.24	20.10	21.50
		1	99	20.35	20.32	20.27	20.30	20.21	21.50
		50	0	20.18	20.07	20.16	20.14	20.18	21.50
		50	25	20.01	20.01	20.00	19.91	19.95	21.50
		50	50	20.05	19.92	19.94	19.94	19.92	21.50
		100	0	20.31	20.14	20.23	20.18	20.12	21.50
	64QAM	1	0	20.30	20.28	20.28	20.43	20.40	21.50
		1	50	20.03	20.13	20.21	20.30	20.03	21.50
		1	99	20.09	20.19	20.28	20.10	20.07	21.50
		50	0	20.34	20.14	20.23	20.30	19.77	21.50
		50	25	20.14	20.24	20.42	20.29	19.89	21.50
		50	50	20.19	20.33	20.04	20.02	19.73	21.50
		100	0	20.06	20.13	20.18	20.22	19.81	21.50
	256QAM	1	0	18.01	17.98	18.19	17.62	17.68	19.50
		1	50	18.05	18.05	17.88	18.04	17.61	19.50
		1	99	18.01	17.78	17.88	18.02	17.79	19.50
		50	0	18.10	18.29	18.19	17.69	17.85	19.50
		50	25	18.05	17.97	18.04	18.17	17.72	19.50
		50	50	17.99	17.82	18.09	18.02	17.64	19.50
		100	0	18.07	18.19	18.20	17.61	17.85	19.50

LTE TDD Band 41 ANT 3 Level6&7&8				Conducted Power(dBm)					Tune-up p Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/249 8.5	40148/254 5.8	40620/25 93	41093/264 0.3	41565/268 7.5	
5MHz	QPSK	1	0	19.81	19.74	19.61	19.61	19.73	21.00
		1	13	19.67	19.59	19.64	19.53	19.52	21.00
		1	24	19.57	19.58	19.52	19.64	19.60	21.00
		12	0	19.59	19.57	19.50	19.60	19.54	21.00
		12	6	19.61	19.46	19.49	19.54	19.60	21.00
		12	13	19.49	19.43	19.45	19.42	19.46	21.00
		25	0	19.59	19.63	19.67	19.55	19.66	21.00
	16QAM	1	0	19.52	19.60	19.49	19.54	19.48	21.00
		1	13	19.54	19.47	19.36	19.42	19.39	21.00
		1	24	19.59	19.44	19.54	19.49	19.41	21.00
		12	0	19.60	19.61	19.49	19.61	19.58	21.00



		12	6	19.56	19.48	19.43	19.44	19.37	21.00
		12	13	19.58	19.59	19.60	19.56	19.62	21.00
		25	0	19.63	19.59	19.53	19.54	19.58	21.00
	64QAM	1	0	19.70	19.73	19.65	19.65	19.59	21.00
		1	13	19.58	19.57	19.58	19.59	19.55	21.00
		1	24	19.75	19.59	19.62	19.61	19.66	21.00
		12	0	19.50	19.58	19.54	19.57	19.53	21.00
		12	6	19.78	19.61	19.71	19.71	19.60	21.00
		12	13	19.63	19.57	19.57	19.59	19.60	21.00
		25	0	19.59	19.51	19.61	19.59	19.54	21.00
	256QAM	1	0	18.05	18.12	18.03	17.99	17.63	19.50
		1	13	18.08	18.04	18.21	17.98	17.65	19.50
		1	24	18.05	18.03	17.93	18.07	17.59	19.50
		12	0	18.20	18.17	18.11	17.98	17.83	19.50
12		6	18.12	18.17	18.30	18.32	17.80	19.50	
12		13	18.04	18.15	18.21	18.30	17.64	19.50	
25		0	18.19	18.23	18.25	18.10	17.70	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/250 1	40160/254 7	40620/25 93	41080/263 9	41540/268 5	
10MHz	QPSK	1	0	19.61	19.49	19.60	19.52	19.46	21.00
		1	25	19.62	19.58	19.48	19.47	19.55	21.00
		1	49	19.62	19.62	19.66	19.64	19.62	21.00
		25	0	19.75	19.70	19.69	19.74	19.62	21.00
		25	13	19.60	19.63	19.60	19.56	19.59	21.00
		25	25	19.55	19.60	19.60	19.56	19.46	21.00
		50	0	19.45	19.42	19.37	19.39	19.43	21.00
	16QAM	1	0	19.53	19.50	19.45	19.43	19.40	21.00
		1	25	19.50	19.51	19.41	19.46	19.47	21.00
		1	49	19.66	19.60	19.50	19.58	19.51	21.00
		25	0	19.62	19.47	19.56	19.52	19.58	21.00
		25	13	19.56	19.39	19.52	19.53	19.42	21.00
		25	25	19.78	19.70	19.77	19.65	19.75	21.00
		50	0	19.52	19.45	19.58	19.58	19.45	21.00
	64QAM	1	0	19.49	19.46	19.55	19.57	19.54	21.00
		1	25	19.75	19.78	19.76	19.66	19.64	21.00
		1	49	19.43	19.42	19.45	19.46	19.40	21.00
		25	0	19.56	19.51	19.61	19.60	19.52	21.00
		25	13	19.63	19.67	19.67	19.63	19.59	21.00
		25	25	19.66	19.64	19.55	19.52	19.58	21.00
		50	0	19.72	19.70	19.58	19.69	19.60	21.00
	256QAM	1	0	18.01	17.88	18.16	18.12	17.69	19.50
		1	25	18.07	17.77	18.04	18.00	17.72	19.50



		1	49	17.85	18.05	17.93	18.07	17.65	19.50
		25	0	18.11	17.99	18.11	17.98	17.68	19.50
		25	13	17.99	18.12	18.20	18.04	17.70	19.50
		25	25	18.22	18.13	18.09	18.05	17.81	19.50
		50	0	18.04	17.97	18.16	18.22	17.71	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/250 3.5	40173/254 8.3	40620/25 93	41068/263 7.8	41515/268 2.5	
15MHz	QPSK	1	0	19.53	19.45	19.57	19.49	19.46	21.00
		1	38	19.79	19.69	19.68	19.73	19.68	21.00
		1	74	19.64	19.53	19.51	19.59	19.53	21.00
		36	0	19.60	19.61	19.51	19.59	19.51	21.00
		36	18	19.61	19.62	19.69	19.57	19.57	21.00
		36	39	19.79	19.65	19.61	19.73	19.76	21.00
		75	0	19.47	19.41	19.53	19.55	19.45	21.00
	16QAM	1	0	19.77	19.62	19.71	19.70	19.67	21.00
		1	38	19.67	19.73	19.69	19.66	19.67	21.00
		1	74	19.46	19.41	19.41	19.46	19.48	21.00
		36	0	19.71	19.62	19.57	19.57	19.60	21.00
		36	18	19.75	19.67	19.71	19.67	19.70	21.00
		36	39	19.77	19.71	19.74	19.66	19.72	21.00
		75	0	19.67	19.65	19.60	19.59	19.59	21.00
	64QAM	1	0	19.46	19.53	19.54	19.51	19.49	21.00
		1	38	19.60	19.40	19.43	19.48	19.48	21.00
		1	74	19.52	19.43	19.44	19.46	19.40	21.00
		36	0	19.62	19.49	19.52	19.55	19.47	21.00
		36	18	19.59	19.47	19.55	19.50	19.61	21.00
		36	39	19.69	19.65	19.70	19.68	19.62	21.00
		75	0	19.60	19.57	19.63	19.52	19.61	21.00
	256QAM	1	0	17.86	18.00	18.05	18.15	17.74	19.50
		1	38	17.77	17.87	17.96	18.14	17.67	19.50
		1	74	17.92	17.76	17.89	18.02	17.77	19.50
		36	0	17.88	17.94	18.01	18.22	17.77	19.50
		36	18	18.10	18.12	18.00	17.97	17.68	19.50
		36	39	17.78	17.91	17.92	18.19	17.81	19.50
		75	0	18.00	17.90	18.00	18.19	17.80	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/250 6	40185/254 9.5	40620/25 93	41055/263 6.5	41490/268 0	
20MHz	QPSK	1	0	19.72	19.83	19.66	19.58	19.83	21.00
		1	50	19.91	19.82	19.93	19.71	19.64	21.00
		1	99	19.50	19.73	19.57	19.66	19.75	21.00



		50	0	19.52	19.50	19.49	19.45	19.55	21.00
		50	25	19.60	19.58	19.43	19.54	19.51	21.00
		50	50	19.50	19.35	19.42	19.35	19.43	21.00
		100	0	19.74	19.70	19.72	19.67	19.59	21.00
	16QAM	1	0	19.54	19.64	19.70	19.72	19.58	21.00
		1	50	19.70	19.50	19.69	19.50	19.70	21.00
		1	99	19.65	19.77	19.81	19.83	19.80	21.00
		50	0	19.52	19.51	19.46	19.43	19.48	21.00
		50	25	19.60	19.52	19.54	19.55	19.57	21.00
		50	50	19.79	19.73	19.62	19.65	19.62	21.00
		100	0	19.73	19.68	19.71	19.69	19.70	21.00
	64QAM	1	0	19.91	19.80	19.84	19.70	19.84	21.00
		1	50	19.60	19.43	19.68	19.44	19.43	21.00
		1	99	19.81	19.84	19.57	19.85	19.68	21.00
		50	0	19.59	19.55	19.52	19.53	19.54	21.00
		50	25	19.55	19.49	19.50	19.43	19.41	21.00
		50	50	19.57	19.59	19.58	19.48	19.58	21.00
		100	0	19.59	19.67	19.65	19.67	19.54	21.00
	256QAM	1	0	18.00	18.03	18.20	17.64	17.70	19.50
		1	50	17.96	18.03	18.06	17.94	17.59	19.50
		1	99	17.95	17.86	18.08	17.90	17.62	19.50
		50	0	18.03	18.17	18.09	17.70	17.95	19.50
		50	25	18.02	17.90	18.06	18.10	17.58	19.50
		50	50	18.05	17.97	18.07	18.02	17.81	19.50
		100	0	17.99	18.10	18.30	17.72	17.84	19.50

LTE TDD Band 41 ANT 4 Full Power &Level1&2&3&4&5&6&7&8				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/249 8.5	40148/254 5.8	40620/25 93	41093/264 0.3	41565/268 7.5	
5MHz	QPSK	1	0	23.15	23.15	23.05	22.98	22.65	24.50
		1	13	23.18	23.21	23.14	23.14	22.71	24.50
		1	24	23.11	23.15	23.03	23.18	22.66	24.50
		12	0	22.10	22.18	22.18	22.11	21.72	23.50
		12	6	22.17	22.22	22.23	22.18	21.71	23.50
		12	13	22.13	22.27	22.20	22.18	21.69	23.50
		25	0	22.12	22.24	22.19	22.16	21.73	23.50
	16QAM	1	0	22.50	22.41	22.36	22.32	21.98	23.50
		1	13	22.54	22.65	22.44	22.54	22.03	23.50
		1	24	22.64	22.67	22.33	22.32	21.99	23.50
		12	0	21.25	21.29	21.24	21.38	20.75	22.50



		12	6	21.26	21.27	21.24	21.19	20.76	22.50
		12	13	21.27	21.30	21.20	21.23	20.72	22.50
		25	0	21.15	21.10	21.15	21.18	20.78	22.50
	64QAM	1	0	21.47	21.44	21.36	21.13	21.12	22.50
		1	13	21.58	21.49	21.52	21.11	20.98	22.50
		1	24	21.75	21.64	21.43	21.07	21.14	22.50
		12	0	20.34	20.18	20.20	19.82	19.81	21.50
		12	6	20.25	20.24	20.31	19.69	19.83	21.50
		12	13	20.39	20.31	20.31	19.75	19.72	21.50
		25	0	20.18	20.18	20.13	19.93	19.91	21.50
	256QAM	1	0	18.23	18.17	18.16	18.05	17.64	19.50
		1	13	18.21	18.22	18.00	18.24	17.65	19.50
		1	24	18.18	18.01	17.90	18.05	17.76	19.50
		12	0	18.09	18.16	18.02	17.95	17.71	19.50
12		6	18.23	18.40	18.14	18.18	17.70	19.50	
12		13	18.29	18.33	18.03	18.24	17.63	19.50	
25		0	18.32	18.22	18.10	18.13	17.58	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/250 1	40160/254 7	40620/25 93	41080/263 9	41540/268 5	
10MHz	QPSK	1	0	22.98	23.03	23.08	23.04	22.70	24.50
		1	25	23.01	22.94	23.06	23.01	22.64	24.50
		1	49	23.02	23.04	23.05	23.02	22.66	24.50
		25	0	22.12	22.14	22.13	22.17	21.74	23.50
		25	13	22.15	22.10	22.23	22.21	21.73	23.50
		25	25	22.12	22.17	22.21	22.16	21.73	23.50
		50	0	22.12	22.17	22.19	22.13	21.74	23.50
	16QAM	1	0	22.34	22.39	22.61	22.55	22.07	23.50
		1	25	22.34	22.24	22.62	22.51	22.04	23.50
		1	49	22.31	22.25	22.59	22.55	22.06	23.50
		25	0	21.18	21.16	21.16	21.21	20.79	22.50
		25	13	21.15	21.14	21.22	21.20	20.82	22.50
		25	25	21.15	21.18	21.23	21.16	20.81	22.50
		50	0	21.11	21.04	21.25	21.24	20.79	22.50
	64QAM	1	0	21.48	21.42	21.75	21.74	21.20	22.50
		1	25	21.41	21.50	21.72	21.67	20.98	22.50
		1	49	21.39	21.34	21.72	21.71	21.02	22.50
		25	0	20.24	20.20	20.12	20.12	19.86	21.50
		25	13	20.07	20.07	20.14	20.12	19.83	21.50
		25	25	20.24	20.24	20.26	20.22	19.92	21.50
		50	0	20.19	20.16	20.39	20.37	19.81	21.50
	256QAM	1	0	17.87	18.04	18.12	18.10	17.72	19.50
		1	25	17.94	17.99	18.16	18.03	17.60	19.50



		1	49	17.89	18.11	18.04	17.90	17.58	19.50
		25	0	18.05	18.04	18.12	18.14	17.81	19.50
		25	13	17.97	18.14	18.08	17.96	17.76	19.50
		25	25	17.96	18.00	18.21	17.99	17.64	19.50
		50	0	18.11	18.22	18.15	18.15	17.76	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/250 3.5	40173/254 8.3	40620/25 93	41068/263 7.8	41515/268 2.5	
15MHz	QPSK	1	0	22.94	22.97	23.03	23.14	22.72	24.50
		1	38	22.89	23.02	22.94	23.03	22.64	24.50
		1	74	22.84	22.81	23.00	23.05	22.67	24.50
		36	0	22.12	22.20	22.10	22.05	21.73	23.50
		36	18	22.09	22.08	22.13	22.14	21.73	23.50
		36	39	22.05	22.01	22.14	22.13	21.69	23.50
		75	0	22.06	22.12	22.11	22.07	21.70	23.50
	16QAM	1	0	22.39	22.41	22.54	22.51	22.06	23.50
		1	38	22.17	22.21	22.44	22.47	21.96	23.50
		1	74	22.10	22.03	22.52	22.46	21.97	23.50
		36	0	21.12	21.16	21.08	21.04	20.80	22.50
		36	18	21.07	21.10	21.17	21.15	20.75	22.50
		36	39	21.04	21.07	21.11	21.17	20.75	22.50
		75	0	21.09	21.08	21.20	21.13	20.72	22.50
	64QAM	1	0	21.38	21.31	21.56	21.54	21.17	22.50
		1	38	21.11	21.12	21.42	21.49	21.06	22.50
		1	74	21.25	21.31	21.65	21.65	20.98	22.50
		36	0	20.08	20.21	20.13	20.07	19.77	21.50
		36	18	20.04	19.98	20.28	20.23	19.68	21.50
		36	39	20.16	20.11	20.14	20.13	19.80	21.50
		75	0	20.05	20.12	20.14	20.11	19.74	21.50
	256QAM	1	0	17.85	17.92	17.89	18.10	17.74	19.50
		1	38	17.97	18.10	17.93	18.05	17.79	19.50
		1	74	17.83	17.70	18.03	17.99	17.53	19.50
		36	0	18.10	17.93	18.16	18.19	17.72	19.50
		36	18	17.83	18.13	18.08	18.18	17.59	19.50
		36	39	17.93	17.78	17.93	18.25	17.65	19.50
		75	0	17.86	18.10	18.05	18.16	17.71	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/250 6	40185/254 9.5	40620/25 93	41055/263 6.5	41490/268 0	
20MHz	QPSK	1	0	23.02	23.10	23.13	22.12	22.80	24.50
		1	50	22.95	22.97	22.99	23.08	22.62	24.50
		1	99	22.93	22.87	23.04	22.97	22.69	24.50



		50	0	22.16	22.08	22.13	22.07	21.77	23.50
		50	25	22.10	22.09	22.17	22.16	21.78	23.50
		50	50	22.10	22.14	22.13	22.09	21.72	23.50
		100	0	22.14	22.07	22.17	22.07	21.76	23.50
	16QAM	1	0	22.30	22.20	22.39	22.33	22.20	23.50
		1	50	22.25	22.36	22.21	22.28	22.03	23.50
		1	99	22.26	22.30	22.24	22.16	22.11	23.50
		50	0	21.16	21.12	21.15	21.22	20.83	22.50
		50	25	21.13	21.12	21.23	21.21	20.84	22.50
		50	50	21.10	21.16	21.17	21.20	20.81	22.50
		100	0	21.09	21.10	21.19	21.10	20.77	22.50
	64QAM	1	0	21.36	21.28	21.48	21.45	21.19	22.50
		1	50	21.40	21.37	21.35	21.37	21.09	22.50
		1	99	21.30	21.30	21.30	21.40	21.12	22.50
		50	0	20.24	20.24	20.29	20.24	19.79	21.50
		50	25	20.14	20.16	20.26	20.23	19.85	21.50
		50	50	20.25	20.27	20.08	20.02	19.73	21.50
		100	0	20.14	20.15	20.28	20.24	19.81	21.50
	256QAM	1	0	17.85	18.10	18.02	17.65	17.68	19.50
		1	50	18.02	17.89	18.03	18.05	17.68	19.50
		1	99	17.88	17.71	18.08	18.07	17.67	19.50
		50	0	18.19	18.18	18.06	17.63	17.88	19.50
		50	25	18.15	17.92	18.16	18.03	17.81	19.50
		50	50	18.00	17.83	18.12	18.00	17.82	19.50
		100	0	18.08	18.16	18.07	17.62	17.80	19.50

LTE FDD Band 66 ANT 3 Level1				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	15.10	15.13	15.08	16.50
		1	2	15.08	14.99	14.94	16.50
		1	5	14.81	14.78	14.85	16.50
		3	0	14.97	14.90	14.92	16.50
		3	2	15.05	15.14	15.02	16.50
		3	3	14.85	14.77	14.76	16.50
		6	0	15.15	15.13	15.03	16.50
	16QAM	1	0	15.11	15.04	15.07	16.50
		1	2	14.95	14.94	15.00	16.50
		1	5	14.90	14.82	14.82	16.50
		3	0	14.96	14.87	14.98	16.50
		3	2	14.99	14.96	14.98	16.50
		3	3	14.97	14.94	14.81	16.50



	64QAM	6	0	14.83	14.88	14.81	16.50
		1	0	14.86	14.77	14.75	16.50
		1	2	14.98	14.94	14.95	16.50
		1	5	15.01	15.01	14.95	16.50
		3	0	15.08	14.94	14.94	16.50
		3	2	15.08	15.00	15.03	16.50
		3	3	15.12	15.03	15.14	16.50
		6	0	14.94	14.91	14.82	16.50
	256QAM	1	0	15.05	15.04	15.00	16.50
		1	2	15.08	14.93	14.90	16.50
		1	5	14.78	14.77	14.80	16.50
		3	0	14.90	14.89	14.86	16.50
		3	2	15.04	15.11	14.95	16.50
		3	3	14.81	14.68	14.65	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	15.10	15.07	15.05	16.50
		1	7	14.93	14.89	14.91	16.50
		1	14	15.01	15.01	14.91	16.50
		8	0	14.81	14.77	14.80	16.50
		8	4	15.12	15.03	15.08	16.50
		8	7	14.98	14.90	14.87	16.50
		15	0	15.23	15.14	15.05	16.50
	16QAM	1	0	15.14	14.98	14.99	16.50
		1	7	15.14	15.18	15.05	16.50
		1	14	14.90	14.89	14.81	16.50
		8	0	14.85	14.75	14.88	16.50
		8	4	14.94	14.90	14.93	16.50
		8	7	15.20	15.13	15.04	16.50
		15	0	15.01	15.03	15.00	16.50
	64QAM	1	0	14.93	14.89	14.92	16.50
		1	7	14.82	14.84	14.77	16.50
		1	14	14.84	14.77	14.79	16.50
		8	0	14.85	14.84	14.92	16.50
		8	4	15.11	15.06	14.95	16.50
		8	7	15.07	14.91	14.99	16.50
		15	0	15.05	14.95	14.85	16.50
	256QAM	1	0	15.04	15.04	14.97	16.50
		1	7	14.85	14.84	14.81	16.50
		1	14	14.99	14.93	14.86	16.50
		8	0	14.71	14.72	14.75	16.50
		8	4	15.05	14.98	15.02	16.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
		8	7	14.97	14.79	14.86	16.50
		15	0	15.17	15.11	14.96	16.50
5MHz	QPSK	1	0	14.85	14.89	14.77	16.50
		1	13	15.15	15.07	14.97	16.50
		1	24	14.97	14.87	14.98	16.50
		12	0	14.83	14.82	14.85	16.50
		12	6	14.89	14.81	14.89	16.50
		12	13	15.03	14.96	14.98	16.50
		25	0	14.97	14.91	14.89	16.50
	16QAM	1	0	15.00	14.97	15.08	16.50
		1	13	15.10	15.13	15.11	16.50
		1	24	15.00	15.03	14.91	16.50
		12	0	14.95	14.91	14.84	16.50
		12	6	15.12	15.02	14.97	16.50
		12	13	15.01	14.89	14.93	16.50
		25	0	14.83	14.90	14.86	16.50
	64QAM	1	0	14.86	14.93	14.89	16.50
		1	13	15.03	15.06	15.04	16.50
		1	24	14.99	14.96	14.87	16.50
		12	0	14.87	14.87	14.81	16.50
		12	6	15.19	15.06	15.00	16.50
		12	13	15.00	15.07	14.93	16.50
		25	0	15.01	14.92	15.00	16.50
	256QAM	1	0	14.75	14.79	14.75	16.50
		1	13	15.04	15.01	14.93	16.50
		1	24	14.96	14.84	14.90	16.50
		12	0	14.73	14.74	14.79	16.50
		12	6	14.82	14.71	14.79	16.50
		12	13	14.92	14.93	14.95	16.50
		25	0	14.95	14.84	14.79	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	14.96	14.89	14.95	16.50
		1	25	14.94	14.91	14.87	16.50
		1	49	15.08	15.03	14.98	16.50
		25	0	15.05	14.91	14.97	16.50
		25	13	14.94	14.88	14.87	16.50
		25	25	14.84	14.78	14.93	16.50
		50	0	15.00	15.01	14.94	16.50
	16QAM	1	0	14.91	14.79	14.87	16.50
		1	25	14.92	14.86	14.81	16.50



		1	49	15.05	15.08	15.05	16.50		
		25	0	15.12	15.04	14.96	16.50		
		25	13	14.81	14.83	14.79	16.50		
		25	25	15.01	15.08	15.09	16.50		
		50	0	15.23	15.14	15.03	16.50		
	64QAM	1	0	15.00	14.97	14.97	16.50		
		1	25	15.20	15.04	15.05	16.50		
		1	49	15.05	14.96	14.94	16.50		
		25	0	15.18	15.16	15.11	16.50		
		25	13	14.86	14.88	14.84	16.50		
		25	25	14.86	14.88	14.80	16.50		
	256QAM	50	0	15.01	14.96	15.04	16.50		
		1	0	14.96	14.86	14.89	16.50		
		1	25	14.85	14.86	14.81	16.50		
		1	49	15.03	14.94	14.93	16.50		
		25	0	14.97	14.90	14.89	16.50		
		25	13	14.83	14.85	14.79	16.50		
		25	25	14.79	14.74	14.87	16.50		
		50	0	14.94	15.01	14.83	16.50		
		Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
						132047/1717.5	132322/1745	132597/1772.5	
15MHz		QPSK	1	0	15.05	15.10	15.13	16.50	
			1	38	14.93	14.90	14.84	16.50	
	1		74	15.05	14.95	14.92	16.50		
	36		0	14.92	14.74	14.80	16.50		
	36		18	14.96	15.02	14.92	16.50		
	36		39	14.89	14.83	14.83	16.50		
	75		0	14.92	14.90	14.99	16.50		
	16QAM	1	0	14.95	14.91	14.92	16.50		
		1	38	15.05	15.07	15.04	16.50		
		1	74	14.79	14.82	14.81	16.50		
		36	0	14.91	14.79	14.76	16.50		
		36	18	15.16	15.15	15.16	16.50		
		36	39	14.96	14.87	15.00	16.50		
		75	0	15.07	15.06	15.05	16.50		
	64QAM	1	0	15.21	15.05	15.14	16.50		
		1	38	15.06	14.98	14.95	16.50		
		1	74	15.00	14.96	14.93	16.50		
		36	0	14.87	14.87	14.83	16.50		
		36	18	14.90	14.80	14.92	16.50		
		36	39	15.02	14.99	14.97	16.50		
		75	0	14.95	14.98	14.92	16.50		
256QAM	1	0	14.99	15.09	15.08	16.50			



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				132072/1720	132322/1745	132572/1770		
20MHz	QPSK	1	38	14.91	14.80	14.76	16.50	
		1	74	15.03	14.91	14.82	16.50	
		36	0	14.85	14.69	14.79	16.50	
		36	18	14.88	14.94	14.87	16.50	
		36	39	14.88	14.73	14.73	16.50	
		75	0	14.84	14.85	14.98	16.50	
	16QAM	QPSK	1	0	15.04	15.07	14.95	16.50
			1	50	15.16	15.04	15.08	16.50
			1	99	14.99	15.00	15.01	16.50
			50	0	14.99	14.89	14.90	16.50
			50	25	15.17	15.09	15.05	16.50
			50	50	15.10	15.08	15.01	16.50
		16QAM	1	0	15.11	15.01	15.14	16.50
			1	50	15.16	15.07	15.03	16.50
			1	99	15.05	15.01	14.95	16.50
			50	0	14.95	15.02	15.02	16.50
			50	25	15.05	14.92	14.93	16.50
			50	50	15.03	15.00	15.08	16.50
	64QAM	100	0	15.00	14.93	14.88	16.50	
		64QAM	1	0	15.15	15.03	15.07	16.50
			1	50	15.10	15.01	15.08	16.50
1			99	14.92	14.85	14.86	16.50	
50			0	15.00	14.97	14.88	16.50	
50			25	15.00	14.91	14.90	16.50	
50			50	14.90	14.97	14.84	16.50	
100	0		15.02	14.97	14.88	16.50		
256QAM	256QAM	1	0	15.01	15.05	14.95	16.50	
		1	50	15.12	14.98	15.03	16.50	
		1	99	14.92	14.96	14.94	16.50	
		50	0	14.88	14.87	14.87	16.50	
		50	25	15.13	15.06	14.96	16.50	
		50	50	15.05	15.08	14.98	16.50	
		100	0	15.09	15.00	14.91	16.50	

LTE FDD Band 66 ANT 3 Level2&3&4				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	14.45	14.31	14.41	16.00
		1	2	14.61	14.52	14.47	16.00



		1	5	14.48	14.55	14.50	16.00	
		3	0	14.55	14.64	14.53	16.00	
		3	2	14.47	14.46	14.45	16.00	
		3	3	14.37	14.34	14.40	16.00	
		6	0	14.55	14.43	14.39	16.00	
	16QAM	1	0	14.59	14.64	14.63	16.00	
		1	2	14.57	14.64	14.66	16.00	
		1	5	14.64	14.55	14.46	16.00	
		3	0	14.49	14.43	14.43	16.00	
		3	2	14.37	14.33	14.36	16.00	
		3	3	14.70	14.65	14.64	16.00	
		6	0	14.54	14.56	14.48	16.00	
	64QAM	1	0	14.57	14.52	14.46	16.00	
		1	2	14.69	14.54	14.53	16.00	
		1	5	14.58	14.60	14.49	16.00	
		3	0	14.69	14.64	14.66	16.00	
		3	2	14.39	14.37	14.31	16.00	
		3	3	14.61	14.44	14.48	16.00	
		6	0	14.73	14.64	14.57	16.00	
	256QAM	1	0	14.39	14.24	14.32	16.00	
		1	2	14.57	14.49	14.43	16.00	
		1	5	14.46	14.53	14.44	16.00	
		3	0	14.47	14.55	14.50	16.00	
		3	2	14.38	14.40	14.40	16.00	
		3	3	14.30	14.30	14.40	16.00	
		6	0	14.45	14.36	14.28	16.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	14.55	14.43	14.48	16.00	
		1	7	14.56	14.53	14.57	16.00	
		1	14	14.37	14.40	14.38	16.00	
		8	0	14.55	14.42	14.53	16.00	
		8	4	14.66	14.60	14.57	16.00	
		8	7	14.71	14.54	14.68	16.00	
		15	0	14.60	14.56	14.66	16.00	
	16QAM	1	0	14.41	14.26	14.30	16.00	
		1	7	14.44	14.42	14.40	16.00	
		1	14	14.33	14.29	14.27	16.00	
		8	0	14.59	14.52	14.53	16.00	
		8	4	14.55	14.46	14.56	16.00	
		8	7	14.50	14.42	14.57	16.00	
		15	0	14.60	14.54	14.64	16.00	
	64QAM	1	0	14.67	14.62	14.50	16.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				131997/1712.5	132322/1745	132647/1777.5		
5MHz	256QAM	1	7	14.53	14.41	14.46	16.00	
		1	14	14.31	14.27	14.35	16.00	
		8	0	14.48	14.41	14.45	16.00	
		8	4	14.37	14.35	14.30	16.00	
		8	7	14.50	14.51	14.47	16.00	
		15	0	14.56	14.50	14.46	16.00	
	256QAM	1	0	14.48	14.38	14.47	16.00	
		1	7	14.52	14.46	14.54	16.00	
		1	14	14.34	14.37	14.34	16.00	
		8	0	14.48	14.34	14.49	16.00	
		8	4	14.65	14.54	14.47	16.00	
		8	7	14.65	14.46	14.62	16.00	
	5MHz	QPSK	1	0	14.60	14.62	14.63	16.00
			1	13	14.48	14.28	14.42	16.00
			1	24	14.43	14.50	14.46	16.00
			12	0	14.67	14.55	14.55	16.00
			12	6	14.49	14.51	14.44	16.00
			12	13	14.51	14.45	14.48	16.00
			25	0	14.51	14.38	14.33	16.00
		16QAM	1	0	14.54	14.47	14.50	16.00
			1	13	14.62	14.51	14.62	16.00
1			24	14.53	14.57	14.46	16.00	
12			0	14.40	14.45	14.38	16.00	
12			6	14.54	14.47	14.55	16.00	
12			13	14.57	14.54	14.56	16.00	
25			0	14.49	14.43	14.37	16.00	
64QAM		1	0	14.47	14.37	14.37	16.00	
		1	13	14.62	14.55	14.51	16.00	
		1	24	14.58	14.53	14.53	16.00	
		12	0	14.68	14.58	14.51	16.00	
		12	6	14.41	14.37	14.41	16.00	
		12	13	14.61	14.50	14.54	16.00	
		25	0	14.48	14.53	14.55	16.00	
256QAM	1	0	14.58	14.51	14.61	16.00		
	1	13	14.44	14.20	14.41	16.00		
	1	24	14.36	14.48	14.36	16.00		
	12	0	14.64	14.54	14.49	16.00		
	12	6	14.42	14.41	14.43	16.00		
	12	13	14.42	14.37	14.40	16.00		
	25	0	14.45	14.34	14.25	16.00		



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	14.49	14.50	14.44	16.00
		1	25	14.61	14.47	14.55	16.00
		1	49	14.44	14.24	14.26	16.00
		25	0	14.44	14.32	14.31	16.00
		25	13	14.59	14.49	14.49	16.00
		25	25	14.51	14.47	14.37	16.00
		50	0	14.50	14.41	14.52	16.00
	16QAM	1	0	14.56	14.55	14.55	16.00
		1	25	14.30	14.35	14.25	16.00
		1	49	14.58	14.52	14.53	16.00
		25	0	14.63	14.59	14.53	16.00
		25	13	14.44	14.41	14.35	16.00
		25	25	14.54	14.63	14.57	16.00
		50	0	14.49	14.38	14.52	16.00
	64QAM	1	0	14.60	14.65	14.59	16.00
		1	25	14.43	14.28	14.31	16.00
		1	49	14.34	14.36	14.36	16.00
		25	0	14.36	14.31	14.40	16.00
		25	13	14.40	14.36	14.40	16.00
		25	25	14.55	14.43	14.57	16.00
		50	0	14.62	14.57	14.44	16.00
	256QAM	1	0	14.42	14.43	14.34	16.00
		1	25	14.53	14.45	14.52	16.00
		1	49	14.35	14.24	14.23	16.00
		25	0	14.41	14.28	14.27	16.00
		25	13	14.52	14.41	14.49	16.00
		25	25	14.45	14.38	14.31	16.00
		50	0	14.43	14.34	14.45	16.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
15MHz	QPSK	1	0	132047/1717.5	132322/1745	132597/1772.5	16.00
		1	38	14.37	14.30	14.29	16.00
		1	74	14.49	14.38	14.44	16.00
		36	0	14.43	14.41	14.34	16.00
		36	18	14.36	14.41	14.27	16.00
		36	39	14.53	14.39	14.45	16.00
		75	0	14.35	14.36	14.37	16.00
	16QAM	1	0	14.43	14.34	14.45	16.00
		1	38	14.44	14.43	14.40	16.00
		1	74	14.38	14.35	14.36	16.00
		36	0	14.59	14.58	14.48	16.00



		36	18	14.41	14.35	14.26	16.00
		36	39	14.62	14.53	14.53	16.00
		75	0	14.34	14.41	14.33	16.00
	64QAM	1	0	14.33	14.31	14.28	16.00
		1	38	14.61	14.49	14.55	16.00
		1	74	14.55	14.63	14.52	16.00
		36	0	14.39	14.35	14.36	16.00
		36	18	14.38	14.30	14.27	16.00
		36	39	14.45	14.40	14.52	16.00
		75	0	14.65	14.65	14.55	16.00
		256QAM	1	0	14.37	14.27	14.23
	1		38	14.29	14.25	14.21	16.00
	1		74	14.39	14.32	14.39	16.00
	36		0	14.33	14.40	14.27	16.00
	36		18	14.28	14.33	14.24	16.00
	36		39	14.46	14.35	14.43	16.00
	75		0	14.34	14.33	14.35	16.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	14.68	14.76	14.73	16.00
		1	50	14.80	14.55	14.61	16.00
		1	99	14.70	14.42	14.52	16.00
		50	0	14.55	14.55	14.50	16.00
		50	25	14.57	14.50	14.55	16.00
		50	50	14.58	14.53	14.42	16.00
		100	0	14.51	14.54	14.44	16.00
	16QAM	1	0	14.52	14.51	14.43	16.00
		1	50	14.43	14.30	14.26	16.00
		1	99	14.43	14.37	14.45	16.00
		50	0	14.68	14.65	14.56	16.00
		50	25	14.41	14.34	14.31	16.00
		50	50	14.35	14.36	14.29	16.00
		100	0	14.64	14.55	14.57	16.00
	64QAM	1	0	14.53	14.52	14.59	16.00
		1	50	14.59	14.55	14.53	16.00
		1	99	14.71	14.54	14.63	16.00
		50	0	14.40	14.40	14.30	16.00
		50	25	14.53	14.54	14.53	16.00
		50	50	14.41	14.41	14.49	16.00
		100	0	14.33	14.37	14.35	16.00
	256QAM	1	0	14.62	14.70	14.72	16.00
		1	50	14.74	14.49	14.52	16.00
		1	99	14.61	14.34	14.41	16.00



		50	0	14.47	14.50	14.44	16.00
		50	25	14.47	14.43	14.53	16.00
		50	50	14.52	14.45	14.42	16.00
		100	0	14.42	14.49	14.37	16.00

LTE FDD Band 66 ANT 3 Level 5				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	18.64	18.59	18.62	20.00
		1	2	18.61	18.51	18.64	20.00
		1	5	18.43	18.51	18.37	20.00
		3	0	18.36	18.28	18.24	20.00
		3	2	18.62	18.55	18.52	20.00
		3	3	18.50	18.58	18.50	20.00
		6	0	18.53	18.34	18.47	20.00
	16QAM	1	0	18.61	18.49	18.49	20.00
		1	2	18.65	18.52	18.61	20.00
		1	5	18.69	18.65	18.62	20.00
		3	0	18.43	18.24	18.35	20.00
		3	2	18.59	18.44	18.40	20.00
		3	3	18.38	18.43	18.37	20.00
		6	0	18.48	18.46	18.55	20.00
	64QAM	1	0	18.64	18.64	18.57	20.00
		1	2	18.55	18.52	18.45	20.00
		1	5	18.48	18.33	18.45	20.00
		3	0	18.49	18.30	18.30	20.00
		3	2	18.52	18.50	18.48	20.00
		3	3	18.40	18.26	18.36	20.00
		6	0	18.52	18.39	18.48	20.00
	256QAM	1	0	18.01	17.87	17.78	19.50
		1	2	17.94	18.08	18.02	19.50
		1	5	17.81	17.98	17.92	19.50
		3	0	17.96	17.85	18.00	19.50
		3	2	18.13	17.97	17.99	19.50
		3	3	18.08	18.01	18.03	19.50
		6	0	17.92	17.87	17.87	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.30	18.37	18.37	20.00
		1	7	18.35	18.31	18.36	20.00
		1	14	18.52	18.49	18.37	20.00
		8	0	18.38	18.47	18.33	20.00



		8	4	18.45	18.46	18.42	20.00	
		8	7	18.65	18.55	18.67	20.00	
		15	0	18.46	18.37	18.40	20.00	
	16QAM	1	0	18.56	18.44	18.51	20.00	
		1	7	18.40	18.42	18.37	20.00	
		1	14	18.43	18.36	18.34	20.00	
		8	0	18.56	18.49	18.52	20.00	
		8	4	18.55	18.54	18.59	20.00	
		8	7	18.67	18.52	18.55	20.00	
		15	0	18.56	18.44	18.54	20.00	
		64QAM	1	0	18.40	18.31	18.31	20.00
	1		7	18.49	18.45	18.50	20.00	
	1		14	18.73	18.62	18.66	20.00	
	8		0	18.37	18.42	18.39	20.00	
	8		4	18.61	18.50	18.51	20.00	
	8		7	18.43	18.42	18.47	20.00	
	15		0	18.48	18.47	18.47	20.00	
	256QAM	1	0	17.98	17.81	17.84	19.50	
		1	7	18.08	18.12	17.84	19.50	
		1	14	18.01	17.85	17.89	19.50	
		8	0	17.96	17.90	17.80	19.50	
		8	4	18.03	17.96	17.91	19.50	
		8	7	17.94	18.08	17.85	19.50	
		15	0	17.99	17.89	17.78	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					131997/1712.5	132322/1745	132647/1777.5	
	5MHz	QPSK	1	0	18.51	18.49	18.38	20.00
			1	13	18.53	18.56	18.51	20.00
1			24	18.34	18.36	18.32	20.00	
12			0	18.55	18.58	18.59	20.00	
12			6	18.52	18.50	18.45	20.00	
12			13	18.49	18.39	18.40	20.00	
25			0	18.58	18.55	18.49	20.00	
16QAM		1	0	18.71	18.68	18.60	20.00	
		1	13	18.70	18.57	18.63	20.00	
		1	24	18.31	18.33	18.40	20.00	
		12	0	18.58	18.50	18.53	20.00	
		12	6	18.33	18.31	18.31	20.00	
		12	13	18.48	18.28	18.29	20.00	
		25	0	18.47	18.38	18.48	20.00	
64QAM		1	0	18.60	18.63	18.61	20.00	
		1	13	18.51	18.46	18.44	20.00	
		1	24	18.53	18.56	18.48	20.00	



		12	0	18.63	18.61	18.57	20.00	
		12	6	18.52	18.48	18.47	20.00	
		12	13	18.59	18.47	18.53	20.00	
		25	0	18.70	18.54	18.52	20.00	
	256QAM	1	0	17.91	17.79	17.83	19.50	
		1	13	17.86	17.89	18.04	19.50	
		1	24	17.72	18.01	17.82	19.50	
		12	0	17.98	17.87	17.93	19.50	
		12	6	17.97	18.09	18.01	19.50	
		12	13	17.83	18.13	18.05	19.50	
		25	0	18.19	17.95	18.11	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				132022/1715	132322/1745	132622/1775		
10MHz	QPSK	1	0	18.46	18.40	18.52	20.00	
		1	25	18.57	18.44	18.49	20.00	
		1	49	18.45	18.44	18.36	20.00	
		25	0	18.47	18.39	18.42	20.00	
		25	13	18.46	18.29	18.29	20.00	
		25	25	18.50	18.38	18.33	20.00	
		50	0	18.52	18.54	18.58	20.00	
	16QAM	1	0	18.58	18.46	18.53	20.00	
		1	25	18.63	18.58	18.55	20.00	
		1	49	18.35	18.34	18.35	20.00	
		25	0	18.50	18.30	18.30	20.00	
		25	13	18.42	18.30	18.43	20.00	
		25	25	18.67	18.57	18.52	20.00	
		50	0	18.53	18.47	18.44	20.00	
	64QAM	1	0	18.59	18.46	18.47	20.00	
		1	25	18.39	18.34	18.40	20.00	
		1	49	18.35	18.33	18.36	20.00	
		25	0	18.36	18.39	18.30	20.00	
		25	13	18.30	18.35	18.37	20.00	
		25	25	18.50	18.45	18.49	20.00	
		50	0	18.60	18.47	18.55	20.00	
	256QAM	1	0	17.97	17.92	17.98	19.50	
		1	25	18.02	17.77	17.98	19.50	
		1	49	17.85	17.99	17.89	19.50	
		25	0	18.22	18.05	17.92	19.50	
		25	13	18.04	17.91	17.99	19.50	
		25	25	18.05	18.11	17.90	19.50	
		50	0	18.20	18.00	18.12	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					132047/1717.5	132322/1745	132597/1772.5	



15MHz	QPSK	1	0	18.57	18.57	18.54	20.00
		1	38	18.57	18.60	18.53	20.00
		1	74	18.43	18.50	18.46	20.00
		36	0	18.58	18.59	18.53	20.00
		36	18	18.45	18.47	18.43	20.00
		36	39	18.47	18.42	18.50	20.00
		75	0	18.44	18.36	18.29	20.00
	16QAM	1	0	18.50	18.39	18.47	20.00
		1	38	18.60	18.62	18.47	20.00
		1	74	18.52	18.61	18.56	20.00
		36	0	18.50	18.30	18.41	20.00
		36	18	18.52	18.33	18.39	20.00
		36	39	18.49	18.48	18.37	20.00
		75	0	18.64	18.54	18.66	20.00
	64QAM	1	0	18.54	18.46	18.39	20.00
		1	38	18.38	18.41	18.30	20.00
		1	74	18.42	18.29	18.35	20.00
		36	0	18.61	18.53	18.45	20.00
		36	18	18.57	18.41	18.48	20.00
		36	39	18.39	18.44	18.33	20.00
		75	0	18.62	18.51	18.52	20.00
256QAM	1	0	18.07	18.03	17.85	19.50	
	1	38	18.00	17.97	17.83	19.50	
	1	74	18.01	17.76	17.73	19.50	
	36	0	17.95	18.12	17.96	19.50	
	36	18	18.05	17.92	18.10	19.50	
	36	39	18.08	17.95	17.78	19.50	
	75	0	18.17	18.01	18.12	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	18.77	18.54	18.72	20.00
		1	50	18.60	18.64	18.67	20.00
		1	99	18.45	18.43	18.39	20.00
		50	0	18.63	18.65	18.65	20.00
		50	25	18.47	18.45	18.40	20.00
		50	50	18.59	18.67	18.60	20.00
		100	0	18.40	18.48	18.50	20.00
	16QAM	1	0	18.51	18.39	18.41	20.00
		1	50	18.49	18.52	18.47	20.00
		1	99	18.34	18.30	18.34	20.00
		50	0	18.48	18.42	18.29	20.00
		50	25	18.38	18.31	18.34	20.00
		50	50	18.41	18.25	18.34	20.00



	64QAM	100	0	18.59	18.49	18.44	20.00
		1	0	18.39	18.43	18.34	20.00
		1	50	18.62	18.65	18.59	20.00
		1	99	18.48	18.45	18.46	20.00
		50	0	18.39	18.36	18.31	20.00
		50	25	18.42	18.26	18.39	20.00
		50	50	18.53	18.47	18.46	20.00
		100	0	18.64	18.53	18.61	20.00
	256QAM	1	0	18.03	17.89	17.81	19.50
		1	50	18.05	17.95	17.67	19.50
		1	99	17.78	18.07	17.85	19.50
		50	0	18.19	18.26	17.93	19.50
		50	25	18.07	18.14	17.94	19.50
		50	50	17.99	18.19	17.73	19.50
		100	0	18.13	18.10	18.15	19.50

LTE FDD Band 66 ANT 3 Level 6&7&8				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	18.00	18.04	17.93	19.50
		1	2	17.92	17.98	17.87	19.50
		1	5	17.85	17.76	17.78	19.50
		3	0	18.12	18.00	17.92	19.50
		3	2	17.98	17.94	17.86	19.50
		3	3	18.00	17.89	17.87	19.50
		6	0	17.82	17.84	17.80	19.50
	16QAM	1	0	18.08	17.96	17.93	19.50
		1	2	18.06	18.01	17.99	19.50
		1	5	18.12	18.10	18.01	19.50
		3	0	18.19	18.09	18.07	19.50
		3	2	17.92	17.88	17.86	19.50
		3	3	18.12	18.13	18.08	19.50
		6	0	17.97	18.05	17.97	19.50
	64QAM	1	0	18.09	18.12	18.12	19.50
		1	2	17.83	17.78	17.78	19.50
		1	5	18.06	17.99	17.99	19.50
		3	0	18.03	18.06	17.98	19.50
		3	2	17.96	17.89	17.84	19.50
		3	3	17.95	18.02	17.97	19.50
		6	0	18.07	18.11	18.12	19.50
	256QAM	1	0	17.89	18.00	17.85	19.50
		1	2	17.84	17.94	17.85	19.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				1319871711.5	132322/1745	132657/1778.5		
		1	5	17.77	17.70	17.74	19.50	
		3	0	18.09	17.94	17.87	19.50	
		3	2	17.92	17.87	17.77	19.50	
		3	3	17.91	17.86	17.85	19.50	
		6	0	17.73	17.73	17.76	19.50	
3MHz	QPSK	1	0	17.93	17.77	17.85	19.50	
		1	7	17.96	17.87	17.84	19.50	
		1	14	17.92	17.90	17.88	19.50	
		8	0	18.17	18.06	18.06	19.50	
		8	4	17.97	17.98	17.88	19.50	
		8	7	18.02	17.93	18.01	19.50	
		15	0	18.01	18.07	17.92	19.50	
	16QAM	1	0	18.07	18.10	18.07	19.50	
		1	7	17.98	17.89	18.01	19.50	
		1	14	17.81	17.79	17.87	19.50	
		8	0	18.00	17.87	17.88	19.50	
		8	4	18.15	17.99	18.14	19.50	
		8	7	17.93	17.90	17.80	19.50	
		15	0	17.90	17.93	17.91	19.50	
	64QAM	1	0	18.08	18.03	18.10	19.50	
		1	7	18.19	18.15	18.17	19.50	
		1	14	18.03	17.96	17.93	19.50	
		8	0	18.15	18.02	18.06	19.50	
		8	4	18.07	17.98	17.91	19.50	
		8	7	18.03	17.94	17.83	19.50	
		15	0	17.99	17.87	17.91	19.50	
	256QAM	1	0	17.91	17.68	17.76	19.50	
		1	7	17.94	17.79	17.78	19.50	
		1	14	17.91	17.81	17.83	19.50	
		8	0	18.07	18.00	18.01	19.50	
		8	4	17.90	17.90	17.80	19.50	
		8	7	17.94	17.83	17.91	19.50	
		15	0	18.00	17.98	17.84	19.50	
	5MHz	QPSK	1	0	18.19	18.03	18.17	19.50
			1	13	18.03	18.01	18.07	19.50
		1	24	18.19	18.04	18.13	19.50	
		12	0	18.08	18.04	18.04	19.50	
		12	6	18.06	17.99	17.99	19.50	
		12	13	18.13	17.97	18.04	19.50	
		12	13	18.13	17.97	18.04	19.50	



	16QAM	25	0	17.97	17.99	18.01	19.50	
		1	0	17.97	17.89	17.95	19.50	
		1	13	18.19	18.04	18.06	19.50	
		1	24	18.17	18.11	17.98	19.50	
		12	0	17.97	17.86	17.85	19.50	
		12	6	18.07	18.00	17.98	19.50	
		12	13	17.95	17.93	17.86	19.50	
		25	0	18.00	17.94	17.96	19.50	
	64QAM	1	0	17.87	17.89	17.90	19.50	
		1	13	18.03	18.01	18.01	19.50	
		1	24	18.11	18.02	18.12	19.50	
		12	0	18.00	18.04	18.05	19.50	
		12	6	18.05	18.02	18.02	19.50	
		12	13	18.21	18.04	18.11	19.50	
		25	0	18.09	18.10	18.05	19.50	
	256QAM	1	0	18.11	18.02	18.15	19.50	
		1	13	17.97	17.91	17.99	19.50	
		1	24	18.18	18.02	18.08	19.50	
		12	0	18.01	18.02	18.01	19.50	
		12	6	18.02	17.89	17.90	19.50	
		12	13	18.05	17.86	17.99	19.50	
		25	0	17.87	17.88	18.01	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					132022/1715	132322/1745	132622/1775	
	10MHz	QPSK	1	0	17.84	17.87	17.76	19.50
			1	25	18.07	18.06	18.16	19.50
			1	49	18.05	17.88	17.92	19.50
			25	0	18.03	17.99	17.88	19.50
25			13	18.14	17.98	18.03	19.50	
25			25	17.87	17.76	17.86	19.50	
50			0	17.86	17.85	17.94	19.50	
16QAM		1	0	18.09	18.09	18.05	19.50	
		1	25	18.06	17.87	17.97	19.50	
		1	49	18.09	17.93	17.91	19.50	
		25	0	17.98	17.86	17.85	19.50	
		25	13	18.10	17.99	17.92	19.50	
		25	25	17.86	17.90	17.88	19.50	
		50	0	18.06	17.95	18.00	19.50	
64QAM		1	0	18.09	18.01	18.05	19.50	
		1	25	17.81	17.81	17.80	19.50	
		1	49	17.99	17.84	17.94	19.50	
		25	0	18.13	18.02	18.12	19.50	
		25	13	17.85	17.76	17.77	19.50	



		25	25	17.86	17.88	17.84	19.50
		50	0	17.87	17.86	17.84	19.50
	256QAM	1	0	17.78	17.81	17.74	19.50
		1	25	17.96	18.00	18.06	19.50
		1	49	18.02	17.84	17.86	19.50
		25	0	17.93	17.99	17.77	19.50
		25	13	18.09	17.88	17.92	19.50
		25	25	17.80	17.76	17.81	19.50
		50	0	17.81	17.75	17.91	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	17.92	17.84	17.83	19.50
		1	38	18.15	18.07	18.09	19.50
		1	74	17.93	17.88	17.89	19.50
		36	0	17.92	17.75	17.89	19.50
		36	18	18.02	18.00	18.09	19.50
		36	39	18.14	18.11	18.06	19.50
		75	0	18.12	18.13	18.06	19.50
	16QAM	1	0	17.90	17.89	17.82	19.50
		1	38	18.05	17.89	17.87	19.50
		1	74	18.02	17.94	17.96	19.50
		36	0	17.79	17.77	17.85	19.50
		36	18	18.04	18.00	17.98	19.50
		36	39	17.94	17.93	17.87	19.50
		75	0	18.07	18.08	18.04	19.50
	64QAM	1	0	18.09	17.92	17.90	19.50
		1	38	17.99	17.95	17.95	19.50
		1	74	17.92	17.80	17.80	19.50
		36	0	17.95	18.00	18.01	19.50
		36	18	17.92	17.91	17.89	19.50
		36	39	17.92	17.93	17.87	19.50
		75	0	18.14	18.10	18.14	19.50
	256QAM	1	0	17.85	17.73	17.73	19.50
		1	38	18.08	18.01	18.01	19.50
		1	74	17.85	17.78	17.79	19.50
		36	0	17.90	17.72	17.88	19.50
		36	18	17.98	17.94	17.99	19.50
		36	39	18.06	18.08	18.03	19.50
		75	0	18.10	18.08	18.01	19.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	18.21	18.19	18.04	19.50
		1	50	18.19	18.24	18.05	19.50



		1	99	18.23	18.07	18.22	19.50
		50	0	17.83	17.86	17.84	19.50
		50	25	17.83	17.74	17.78	19.50
		50	50	17.79	17.76	17.77	19.50
		100	0	17.95	17.89	17.91	19.50
	16QAM	1	0	17.93	17.80	17.81	19.50
		1	50	18.09	18.05	17.99	19.50
		1	99	17.90	17.83	17.81	19.50
		50	0	18.14	18.08	18.03	19.50
		50	25	18.04	17.92	17.99	19.50
		50	50	18.03	17.88	17.86	19.50
		100	0	18.14	17.99	18.08	19.50
	64QAM	1	0	17.83	17.77	17.86	19.50
		1	50	18.00	17.90	18.01	19.50
		1	99	18.11	18.12	18.08	19.50
		50	0	17.93	17.91	17.84	19.50
		50	25	18.03	18.02	18.04	19.50
		50	50	18.15	18.01	17.99	19.50
		100	0	18.00	18.01	17.98	19.50
	256QAM	1	0	18.20	18.12	17.96	19.50
		1	50	18.11	18.17	18.00	19.50
		1	99	18.18	18.06	18.16	19.50
		50	0	17.80	17.85	17.81	19.50
		50	25	17.79	17.67	17.77	19.50
		50	50	17.77	17.75	17.71	19.50
		100	0	17.88	17.78	17.86	19.50

LTE FDD Band 66				Conducted Power(dBm)			Tune-up Limit
ANT 4 Full Power &Level1&2&3&4&5&6&7&8				Channel/Frequency (MHz)			
Bandwidth	Modulation	RB size	RB offset	131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	22.87	22.88	22.76	24.50
		1	2	22.94	22.95	22.85	24.50
		1	5	22.88	22.88	22.76	24.50
		3	0	22.93	22.90	22.77	24.50
		3	2	22.97	22.93	22.86	24.50
		3	3	22.90	22.86	22.80	24.50
		6	0	21.99	21.93	21.82	23.50
	16QAM	1	0	22.11	22.37	21.85	23.50
		1	2	22.18	22.38	21.94	23.50
		1	5	22.11	22.33	21.88	23.50
		3	0	22.07	22.13	22.01	23.50
		3	2	22.10	22.20	22.07	23.50



		3	3	22.05	22.13	22.02	23.50
		6	0	21.16	20.87	21.03	22.50
	64QAM	1	0	21.09	21.43	20.98	22.50
		1	2	21.10	21.51	21.04	22.50
		1	5	21.20	21.27	21.01	22.50
		3	0	21.11	21.03	21.00	22.50
		3	2	21.04	21.14	21.13	22.50
		3	3	21.09	21.28	21.02	22.50
		6	0	20.11	19.96	20.13	21.50
	256QAM	1	0	17.73	17.73	17.74	19.50
		1	2	18.05	17.81	17.93	19.50
		1	5	17.79	17.77	17.60	19.50
		3	0	17.91	18.00	17.97	19.50
		3	2	18.08	18.09	17.91	19.50
3		3	18.01	18.07	17.87	19.50	
6		0	18.01	17.93	17.81	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	22.98	22.88	22.83	24.50
		1	7	23.05	23.03	22.95	24.50
		1	14	22.98	22.93	22.85	24.50
		8	0	22.09	21.95	21.91	23.50
		8	4	22.14	22.01	21.98	23.50
		8	7	22.05	21.98	21.90	23.50
		15	0	22.09	21.99	21.93	23.50
	16QAM	1	0	22.04	22.39	21.99	23.50
		1	7	22.12	22.49	22.01	23.50
		1	14	22.00	22.41	21.90	23.50
		8	0	21.18	21.03	20.98	22.50
		8	4	21.19	21.14	20.99	22.50
		8	7	21.18	21.10	20.99	22.50
		15	0	21.09	21.00	20.88	22.50
	64QAM	1	0	21.00	21.49	21.01	22.50
		1	7	21.18	21.52	20.96	22.50
		1	14	20.98	21.52	20.94	22.50
		8	0	20.26	20.02	20.03	21.50
		8	4	20.14	20.15	19.91	21.50
		8	7	20.28	20.01	19.99	21.50
		15	0	20.15	19.97	19.87	21.50
	256QAM	1	0	17.84	17.71	17.80	19.50
		1	7	17.95	18.12	18.03	19.50
		1	14	17.84	17.88	17.68	19.50
		8	0	18.01	18.04	17.95	19.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				131997/1712.5	132322/1745	132647/1777.5		
5MHz		8	4	18.08	18.07	17.98	19.50	
		8	7	18.06	17.90	17.89	19.50	
		15	0	18.05	17.86	18.02	19.50	
	QPSK	1	0	23.01	22.91	22.92	24.50	
		1	13	22.99	23.02	22.94	24.50	
		1	24	22.87	22.93	22.87	24.50	
		12	0	22.06	21.95	21.97	23.50	
		12	6	22.08	22.03	22.01	23.50	
		12	13	22.04	21.98	21.94	23.50	
		25	0	22.03	21.96	21.99	23.50	
		16QAM	1	0	22.25	22.49	22.16	23.50
			1	13	22.31	22.60	22.18	23.50
			1	24	22.23	22.50	22.03	23.50
			12	0	21.18	21.11	21.04	22.50
			12	6	21.19	21.18	21.07	22.50
			12	13	21.11	21.17	20.97	22.50
		64QAM	25	0	21.11	21.06	20.92	22.50
			1	0	21.38	21.56	21.06	22.50
			1	13	21.44	21.61	21.09	22.50
			1	24	21.33	21.60	21.11	22.50
			12	0	20.09	20.17	19.98	21.50
			12	6	20.16	20.10	19.98	21.50
		256QAM	12	13	20.25	20.13	20.09	21.50
			25	0	20.24	20.14	20.02	21.50
	1		0	17.99	17.90	17.87	19.50	
	1		13	17.83	17.93	17.82	19.50	
	1		24	17.75	17.80	17.81	19.50	
12	0		18.05	18.06	18.08	19.50		
12	6		17.93	18.13	17.89	19.50		
12	13	17.90	17.91	17.96	19.50			
25	0	18.08	17.94	18.02	19.50			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				132022/1715	132322/1745	132622/1775		
10MHz	QPSK	1	0	23.03	22.96	22.94	24.50	
		1	25	22.99	22.91	22.92	24.50	
		1	49	22.89	22.94	22.89	24.50	
		25	0	22.12	21.96	21.95	23.50	
		25	13	22.12	22.09	21.88	23.50	
		25	25	22.05	22.06	21.96	23.50	
		50	0	22.06	21.98	21.92	23.50	
	16QAM	1	0	22.17	22.42	22.03	23.50	



		1	25	21.95	22.44	21.93	23.50	
		1	49	21.98	22.33	21.90	23.50	
		25	0	21.15	21.09	21.06	22.50	
		25	13	21.14	21.15	21.07	22.50	
		25	25	21.04	21.07	21.07	22.50	
		50	0	21.08	21.01	20.96	22.50	
	64QAM	1	0	21.29	21.51	20.99	22.50	
		1	25	21.09	21.39	21.04	22.50	
		1	49	21.12	21.47	20.91	22.50	
		25	0	20.10	20.05	20.08	21.50	
		25	13	20.20	20.20	20.06	21.50	
		25	25	20.07	20.09	20.01	21.50	
	256QAM	50	0	20.04	20.03	19.89	21.50	
		1	0	18.11	17.89	17.94	19.50	
		1	25	17.99	17.73	18.01	19.50	
		1	49	17.88	17.84	17.84	19.50	
		25	0	18.15	17.99	17.94	19.50	
		25	13	17.93	17.92	18.01	19.50	
		25	25	17.99	17.93	17.91	19.50	
		50	0	18.09	18.03	18.06	19.50	
		Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
132047/1717.5						132322/1745	132597/1772.5	
15MHz		QPSK	1	0	22.97	22.94	23.01	24.50
			1	38	22.97	22.92	22.90	24.50
	1		74	22.93	22.85	22.82	24.50	
	36		0	21.99	21.99	21.95	23.50	
	36		18	22.09	22.00	22.08	23.50	
	36		39	22.02	21.99	21.99	23.50	
	75		0	22.01	21.91	21.94	23.50	
	16QAM	1	0	22.10	22.37	22.52	23.50	
		1	38	21.97	22.38	22.46	23.50	
		1	74	21.91	22.32	22.32	23.50	
		36	0	20.98	21.01	20.96	22.50	
		36	18	21.10	21.04	21.02	22.50	
		36	39	21.04	21.05	20.97	22.50	
		75	0	21.07	20.97	20.91	22.50	
	64QAM	1	0	21.04	21.47	21.62	22.50	
		1	38	20.88	21.34	21.51	22.50	
		1	74	21.04	21.44	21.24	22.50	
		36	0	20.11	20.02	19.94	21.50	
		36	18	20.22	19.94	20.10	21.50	
		36	39	20.04	20.06	19.96	21.50	
		75	0	19.99	20.00	19.86	21.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				132072/1720	132322/1745	132572/1770		
20MHz	256QAM	1	0	17.81	17.90	17.93	19.50	
		1	38	17.81	17.78	17.72	19.50	
		1	74	17.98	17.82	17.83	19.50	
		36	0	17.95	17.95	18.05	19.50	
		36	18	18.00	17.88	18.00	19.50	
		36	39	17.85	17.84	17.77	19.50	
		75	0	17.92	17.87	18.03	19.50	
	20MHz	QPSK	1	0	23.09	23.05	22.95	24.50
			1	50	22.98	22.98	22.83	24.50
			1	99	22.95	22.99	22.76	24.50
			50	0	22.03	22.02	21.98	23.50
			50	25	22.12	22.00	22.04	23.50
			50	50	22.05	21.99	21.96	23.50
			100	0	22.08	21.96	21.93	23.50
		16QAM	1	0	22.70	22.52	22.43	23.50
			1	50	22.52	22.61	22.35	23.50
			1	99	22.55	22.41	22.28	23.50
			50	0	21.11	21.05	20.96	22.50
			50	25	21.17	21.01	21.03	22.50
			50	50	21.09	21.03	20.94	22.50
			100	0	21.15	20.95	20.95	22.50
		64QAM	1	0	21.72	21.44	21.53	22.50
			1	50	21.50	21.73	21.48	22.50
			1	99	21.51	21.40	21.27	22.50
			50	0	20.11	20.06	20.08	21.50
			50	25	20.20	19.92	20.01	21.50
			50	50	20.07	19.93	20.02	21.50
			100	0	20.17	20.03	19.93	21.50
256QAM		1	0	17.91	18.01	17.90	19.50	
		1	50	17.91	18.01	17.91	19.50	
		1	99	17.93	18.01	17.85	19.50	
		50	0	18.23	18.02	18.12	19.50	
		50	25	17.93	18.09	17.79	19.50	
		50	50	17.98	18.05	17.91	19.50	
		100	0	18.19	18.21	18.06	19.50	



9.1.2 LTE CA

LTE Uplink 2CA_ Band 7-ANT4										
Full Power & Level1&2&3&4&5&6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	21.98	23.5
21100	21298	20	QPSK	1	99	1	0	2	21.93	23.5
21350	21152	20	QPSK	1	0	1	99	2	21.91	23.5
LTE Uplink 2CA_ Band 7-ANT3										
Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	13.21	14.5
21100	21298	20	QPSK	1	99	1	0	2	13.28	14.5
21350	21152	20	QPSK	1	0	1	99	2	13.19	14.5
LTE Uplink 2CA_ Band 7-ANT3										
Level2&3&4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	11.13	12.5
21100	21298	20	QPSK	1	99	1	0	2	11.17	12.5
21350	21152	20	QPSK	1	0	1	99	2	11.24	12.5
LTE Uplink 2CA_ Band 7-ANT3										
Level5										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	18.1	19.5
21100	21298	20	QPSK	1	99	1	0	2	17.91	19.5
21350	21152	20	QPSK	1	0	1	99	2	17.98	19.5



LTE Uplink 2CA_ Band 7-ANT3 Level6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	17.24	18.5
21100	21298	20	QPSK	1	99	1	0	2	17.31	18.5
21350	21152	20	QPSK	1	0	1	99	2	17.29	18.5
LTE Uplink 2CA_ Band 38-ANT4 Full Power & Level1&2&3&4&5&6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
38048	37850	20	QPSK	1	0	1	99	2	22.51	24
38099	37901	20	QPSK	1	0	1	99	2	22.42	24
37952	38150	20	QPSK	1	99	1	0	2	22.50	24
LTE Uplink 2CA_ Band 38-ANT3 Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
38048	37850	20	QPSK	1	0	1	99	2	15.91	17.00
38099	37901	20	QPSK	1	0	1	99	2	16.01	17.00
37952	38150	20	QPSK	1	99	1	0	2	15.96	17.00
LTE Uplink 2CA_ Band 38-ANT3 Level2&3&4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
38048	37850	20	QPSK	1	0	1	99	2	14.31	15.50
38099	37901	20	QPSK	1	0	1	99	2	14.35	15.50
37952	38150	20	QPSK	1	99	1	0	2	14.40	15.50



LTE Uplink 2CA_ Band 38-ANT3										
Level5										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
38048	37850	20	QPSK	1	0	1	99	2	19.88	21.00
38099	37901	20	QPSK	1	0	1	99	2	19.72	21.00
37952	38150	20	QPSK	1	99	1	0	2	19.85	21.00
LTE Uplink 2CA_ Band 38-ANT3										
Level6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
38048	37850	20	QPSK	1	0	1	99	2	19.40	20.50
38099	37901	20	QPSK	1	0	1	99	2	19.36	20.50
37952	38150	20	QPSK	1	99	1	0	2	19.39	20.50
LTE Uplink 2CA_ Band 41-ANT4										
Full Power & Level1&2&3&4&5&6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.76	24
40185	40383	20	QPSK	1	99	1	0	2	22.68	24
40620	40818	20	QPSK	1	99	1	0	2	22.61	24
41055	40857	20	QPSK	1	0	1	99	2	22.65	24
41490	41292	20	QPSK	1	0	1	99	2	22.76	24
LTE Uplink 2CA_ Band 41-ANT3										
Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
39750	39948	20	QPSK	1	99	1	0	2	15.48	16.5
40185	40383	20	QPSK	1	99	1	0	2	15.37	16.5
40620	40818	20	QPSK	1	99	1	0	2	15.44	16.5
41055	40857	20	QPSK	1	0	1	99	2	15.41	16.5
41490	41292	20	QPSK	1	0	1	99	2	15.39	16.5



LTE Uplink 2CA_ Band 41-ANT3 Level2&3&4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
39750	39948	20	QPSK	1	99	1	0	2	14.31	15.5
40185	40383	20	QPSK	1	99	1	0	2	14.28	15.5
40620	40818	20	QPSK	1	99	1	0	2	14.33	15.5
41055	40857	20	QPSK	1	0	1	99	2	14.3	15.5
41490	41292	20	QPSK	1	0	1	99	2	14.29	15.5
LTE Uplink 2CA_ Band 41-ANT3 Level5										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
39750	39948	20	QPSK	1	99	1	0	2	19.83	21
40185	40383	20	QPSK	1	99	1	0	2	19.73	21
40620	40818	20	QPSK	1	99	1	0	2	19.77	21
41055	40857	20	QPSK	1	0	1	99	2	19.75	21
41490	41292	20	QPSK	1	0	1	99	2	19.81	21
LTE Uplink 2CA_ Band 41-ANT3 Level6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
39750	39948	20	QPSK	1	99	1	0	2	19.42	20.5
40185	40383	20	QPSK	1	99	1	0	2	19.38	20.5
40620	40818	20	QPSK	1	99	1	0	2	19.43	20.5
41055	40857	20	QPSK	1	0	1	99	2	19.38	20.5
41490	41292	20	QPSK	1	0	1	99	2	19.39	20.5

9.4 EN-DC Mode

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

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 TS138.521-1.

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM		≤ 2.5	
DFT-s-OFDM 256 QAM		≤ 4.5	
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM		≤ 3.5	
CP-OFDM 256 QAM		≤ 6.5	

NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

EN-DC Antenna Configuration

	Band	LTE Band	NR Band	Ant 0	Ant 1	Ant 3	Ant 5
	EN-DC	EN-DC_7A_n5A	LTE 7	n5	NR	--	LTE
EN-DC_7A_n5A		LTE 7	n5	NR	--	--	LTE
EN-DC_5A_n7A		LTE 5	n7	LTE	--	NR	--
EN-DC_5A_n7A		LTE 5	n7	--	LTE	NR	--
EN-DC_7A_n5A		LTE 7	n5	--	NR	--	LTE
EN-DC_7A_n5A		LTE 7	n5	--	NR	LTE	--
EN-DC_5A_n7A		LTE 5	n7	LTE	--	--	NR
EN-DC_5A_n7A		LTE 5	n7	--	LTE	--	NR



9.1.3 LTE (EN-DC)

LTE FDD Band 7 ANT 5 Level 1				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	15.98	16.00	15.85	16.50
		1	13	16.22	16.07	16.07	16.50
		1	24	15.91	15.83	15.98	16.50
		12	0	16.07	16.11	16.09	16.50
		12	6	15.91	15.89	15.88	16.50
		12	13	16.13	16.18	16.12	16.50
		25	0	16.05	16.07	16.10	16.50
	16QAM	1	0	16.04	15.93	16.04	16.50
		1	13	16.06	15.93	15.90	16.50
		1	24	15.97	15.99	15.90	16.50
		12	0	16.06	16.07	16.02	16.50
		12	6	15.97	15.86	15.98	16.50
		12	13	15.98	15.87	15.84	16.50
		25	0	16.02	16.10	16.10	16.50
	64QAM	1	0	16.02	15.96	16.02	16.50
		1	13	15.99	15.96	15.91	16.50
		1	24	15.90	15.76	15.90	16.50
		12	0	15.92	15.91	15.87	16.50
		12	6	15.97	15.88	15.91	16.50
		12	13	15.97	15.83	15.94	16.50
		25	0	16.09	16.13	16.10	16.50
	256QAM	1	0	15.89	15.89	15.85	16.50
		1	13	16.16	16.05	16.06	16.50
		1	24	15.90	15.82	15.97	16.50
		12	0	16.04	16.06	16.06	16.50
		12	6	15.88	15.81	15.86	16.50
		12	13	16.12	16.08	16.09	16.50
		25	0	15.98	16.06	16.00	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	16.14	16.01	16.09	16.50
		1	25	15.90	15.78	15.88	16.50
		1	49	16.14	16.12	16.00	16.50
		25	0	15.99	15.96	15.89	16.50
		25	13	15.89	15.76	15.81	16.50
		25	25	16.03	15.98	15.97	16.50
		50	0	16.12	15.98	15.93	16.50
	16QAM	1	0	15.99	15.91	15.91	16.50



		1	25	15.85	15.75	15.87	16.50	
		1	49	15.86	15.75	15.86	16.50	
		25	0	15.86	15.88	15.87	16.50	
		25	13	15.81	15.81	15.82	16.50	
		25	25	15.88	15.78	15.79	16.50	
		50	0	15.98	16.02	16.04	16.50	
	64QAM	1	0	15.96	15.97	16.02	16.50	
		1	25	16.04	15.87	16.13	16.50	
		1	49	15.85	15.75	15.85	16.50	
		25	0	16.05	15.99	16.02	16.50	
		25	13	15.98	16.04	16.03	16.50	
		25	25	16.10	16.03	15.90	16.50	
	256QAM	50	0	15.93	15.95	15.81	16.50	
		1	0	16.13	16.00	15.99	16.50	
		1	25	15.87	15.71	15.82	16.50	
		1	49	16.04	16.06	15.95	16.50	
		25	0	15.97	15.89	15.84	16.50	
		25	13	15.82	15.75	15.72	16.50	
	15MHz	QPSK	25	25	15.97	15.96	15.91	16.50
			50	0	16.07	15.88	15.91	16.50
			1	0	16.19	16.17	16.11	16.50
1			38	16.08	15.98	16.04	16.50	
1			74	15.93	15.86	15.84	16.50	
36			0	16.02	15.96	15.95	16.50	
36			18	15.83	15.87	15.88	16.50	
16QAM	36	39	16.16	16.06	16.00	16.50		
	75	0	15.85	15.79	15.80	16.50		
	64QAM	1	0	16.09	15.96	16.02	16.50	
		1	38	16.03	16.01	15.99	16.50	
		1	74	16.09	15.95	15.92	16.50	
		36	0	16.16	15.97	16.03	16.50	
		36	18	16.13	16.16	16.05	16.50	
36		39	15.93	15.88	15.77	16.50		
75		0	16.18	16.06	16.05	16.50		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20825/2507.5	21100/2535	21375/2562.5		



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	256QAM	1	0	15.95	15.86	15.82	16.50
		1	38	16.05	16.04	15.98	16.50
		1	74	16.21	16.07	16.01	16.50
		36	0	15.92	15.83	15.87	16.50
		36	18	15.86	15.85	15.77	16.50
		36	39	16.00	15.97	16.06	16.50
		75	0	15.91	15.86	15.82	16.50
20MHz	QPSK	1	0	16.18	16.19	16.04	16.50
		1	50	15.97	15.95	15.91	16.50
		1	99	16.37	16.33	16.17	16.50
		50	0	15.98	15.91	15.82	16.50
		50	25	15.95	15.85	15.98	16.50
		50	50	16.13	16.13	16.01	16.50
		100	0	16.11	16.07	15.96	16.50
	16QAM	1	0	16.10	15.92	16.13	16.50
		1	50	16.03	15.85	16.06	16.50
		1	99	15.91	15.80	15.83	16.50
		50	0	15.86	15.84	15.80	16.50
		50	25	16.06	15.99	15.97	16.50
		50	50	15.87	15.85	15.79	16.50
		100	0	16.05	16.09	16.10	16.50
	64QAM	1	0	15.96	15.90	16.06	16.50
		1	50	16.10	16.11	16.25	16.50
		1	99	16.03	15.97	15.88	16.50
		50	0	15.92	15.89	15.88	16.50
		50	25	15.98	15.90	16.00	16.50
		50	50	15.83	15.84	15.85	16.50
		100	0	16.17	16.09	16.03	16.50
	256QAM	1	0	16.07	16.11	15.95	16.50
		1	50	15.90	15.94	15.82	16.50
		1	99	16.29	16.28	16.10	16.50
		50	0	15.95	15.81	15.77	16.50
		50	25	15.93	15.85	15.89	16.50
		50	50	16.10	16.10	15.98	16.50
		100	0	16.05	15.99	15.89	16.50

LTE FDD Band 7 ANT 5 Level 2&3&4				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	14.27	14.25	14.25	14.50



		1	13	14.10	14.05	14.07	14.50	
		1	24	14.24	14.20	14.15	14.50	
		12	0	14.17	14.11	14.20	14.50	
		12	6	14.26	14.22	14.24	14.50	
		12	13	14.19	14.10	14.10	14.50	
		25	0	14.12	14.05	14.17	14.50	
	16QAM	1	0	14.18	14.26	14.21	14.50	
		1	13	14.25	14.23	14.26	14.50	
		1	24	14.20	14.19	14.20	14.50	
		12	0	14.01	14.00	14.06	14.50	
		12	6	13.98	13.93	14.05	14.50	
		12	13	14.09	13.96	14.02	14.50	
	64QAM	25	0	14.26	14.22	14.16	14.50	
		1	0	14.05	14.07	14.13	14.50	
		1	13	14.25	14.16	14.26	14.50	
		1	24	14.27	14.13	14.24	14.50	
		12	0	14.15	14.08	14.12	14.50	
		12	6	14.06	14.14	14.14	14.50	
	256QAM	12	13	14.08	13.99	14.04	14.50	
		25	0	14.20	14.22	14.14	14.50	
		1	0	14.27	14.20	14.23	14.50	
		1	13	13.99	13.95	14.04	14.50	
		1	24	14.20	14.18	14.09	14.50	
		12	0	14.15	14.05	14.16	14.50	
	10MHz	QPSK	12	6	14.16	14.17	14.20	14.50
			12	13	14.18	14.09	14.06	14.50
			25	0	14.06	13.96	14.06	14.50
			1	0	14.12	14.10	14.11	14.50
1			25	14.22	14.14	14.08	14.50	
1			49	14.43	14.38	14.33	14.50	
25			0	14.05	14.02	14.07	14.50	
16QAM		25	13	14.21	14.25	14.13	14.50	
		25	25	14.29	14.18	14.14	14.50	
		50	0	14.27	14.14	14.21	14.50	
		1	0	14.35	14.24	14.23	14.50	
		1	25	14.14	14.16	14.15	14.50	
		1	49	14.30	14.30	14.32	14.50	
		25	0	14.06	13.96	13.96	14.50	
		25	13	14.26	14.12	14.24	14.50	
		25	25	14.07	14.08	14.08	14.50	
		50	0	14.09	14.07	14.01	14.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20800/2505	21100/2535	21400/2565		



	64QAM	1	0	14.09	14.02	14.11	14.50
		1	25	14.25	14.22	14.25	14.50
		1	49	14.27	14.30	14.19	14.50
		25	0	14.30	14.26	14.25	14.50
		25	13	14.17	14.11	14.09	14.50
		25	25	14.17	14.08	14.10	14.50
		50	0	14.27	14.19	14.10	14.50
	256QAM	1	0	14.05	14.01	14.06	14.50
		1	13	14.14	14.07	14.07	14.50
		1	24	14.34	14.32	14.30	14.50
		12	0	14.05	13.99	13.96	14.50
		12	6	14.11	14.15	14.06	14.50
		12	13	14.24	14.14	14.06	14.50
		25	0	14.22	14.06	14.10	14.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	14.39	14.27	14.33	14.50
		1	38	14.42	14.29	14.37	14.50
		1	74	14.17	14.12	14.25	14.50
		36	0	14.18	14.19	14.19	14.50
		36	18	13.99	14.05	14.02	14.50
		36	39	14.33	14.24	14.25	14.50
		75	0	14.24	14.16	14.18	14.50
	16QAM	1	0	14.40	14.25	14.28	14.50
		1	38	14.13	14.04	14.07	14.50
		1	74	14.28	14.27	14.19	14.50
		36	0	14.32	14.33	14.28	14.50
		36	18	14.33	14.23	14.16	14.50
		36	39	14.21	14.11	14.22	14.50
		75	0	14.29	14.27	14.17	14.50
	64QAM	1	0	14.18	14.09	14.22	14.50
		1	38	14.09	14.16	14.18	14.50
		1	74	14.01	14.04	14.10	14.50
		36	0	14.30	14.15	14.24	14.50
		36	18	14.10	14.11	13.97	14.50
		36	39	14.13	14.15	14.12	14.50
		75	0	14.33	14.34	14.30	14.50
	256QAM	1	0	14.37	14.18	14.23	14.50
		1	38	14.33	14.28	14.37	14.50
		1	74	14.13	14.09	14.22	14.50
		36	0	14.17	14.11	14.11	14.50
		36	18	13.92	13.97	13.93	14.50
		36	39	14.31	14.20	14.24	14.50



Bandwidth	Modulation	75	0	14.20	14.13	14.18	14.50
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	14.32	14.17	14.21	14.50
		1	50	14.45	14.37	14.28	14.50
		1	99	14.30	14.34	14.47	14.50
		50	0	14.42	14.39	14.30	14.50
		50	25	14.20	14.17	14.08	14.50
		50	50	14.27	14.28	14.27	14.50
		100	0	14.23	14.03	14.10	14.50
	16QAM	1	0	14.35	14.35	14.15	14.50
		1	50	14.19	14.30	14.20	14.50
		1	99	14.35	14.27	14.32	14.50
		50	0	14.12	14.06	13.99	14.50
		50	25	14.10	14.13	14.15	14.50
		50	50	14.09	14.05	14.08	14.50
		100	0	14.11	14.05	14.03	14.50
	64QAM	1	0	14.27	14.44	14.42	14.50
		1	50	14.15	14.17	14.06	14.50
		1	99	14.04	14.02	14.15	14.50
		50	0	14.38	14.25	14.32	14.50
		50	25	14.10	14.02	14.00	14.50
		50	50	14.09	14.12	14.03	14.50
		100	0	14.35	14.28	14.39	14.50
	256QAM	1	0	14.28	14.09	14.13	14.50
		1	50	14.35	14.36	14.21	14.50
		1	99	14.24	14.30	14.43	14.50
		50	0	14.38	14.31	14.28	14.50
		50	25	14.16	14.13	14.02	14.50
		50	50	14.21	14.19	14.24	14.50
		100	0	14.20	14.02	14.00	14.50

LTE FDD Band 7 ANT 5 Level 5				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	19.38	19.35	19.36	20.00
		1	13	19.65	19.69	19.57	20.00
		1	24	19.49	19.49	19.41	20.00
		12	0	19.50	19.50	19.55	20.00
		12	6	19.43	19.37	19.41	20.00
		12	13	19.44	19.36	19.34	20.00
		25	0	19.56	19.53	19.50	20.00



	16QAM	1	0	19.37	19.32	19.44	20.00
		1	13	19.43	19.39	19.35	20.00
		1	24	19.53	19.57	19.47	20.00
		12	0	19.37	19.32	19.32	20.00
		12	6	19.31	19.37	19.36	20.00
		12	13	19.58	19.65	19.64	20.00
		25	0	19.62	19.65	19.67	20.00
	64QAM	1	0	19.65	19.47	19.59	20.00
		1	13	19.50	19.41	19.42	20.00
		1	24	19.55	19.52	19.51	20.00
		12	0	19.62	19.52	19.56	20.00
		12	6	19.35	19.28	19.30	20.00
		12	13	19.44	19.27	19.31	20.00
		25	0	19.58	19.44	19.54	20.00
	256QAM	1	0	18.37	18.40	18.26	19.00
		1	13	18.26	18.26	18.31	19.00
		1	24	18.59	18.44	18.55	19.00
		12	0	18.30	18.20	18.09	19.00
		12	6	18.45	18.44	18.32	19.00
		12	13	18.24	18.21	18.24	19.00
		25	0	18.45	18.46	18.46	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.62	19.55	19.46	20.00
		1	25	19.56	19.42	19.50	20.00
		1	49	19.68	19.63	19.55	20.00
		25	0	19.66	19.62	19.63	20.00
		25	13	19.48	19.31	19.36	20.00
		25	25	19.47	19.45	19.37	20.00
		50	0	19.57	19.66	19.60	20.00
	16QAM	1	0	19.52	19.35	19.50	20.00
		1	25	19.49	19.50	19.57	20.00
		1	49	19.60	19.55	19.44	20.00
		25	0	19.63	19.57	19.56	20.00
		25	13	19.39	19.39	19.36	20.00
		25	25	19.47	19.45	19.47	20.00
		50	0	19.50	19.45	19.50	20.00
	64QAM	1	0	19.36	19.33	19.31	20.00
		1	25	19.61	19.43	19.56	20.00
		1	49	19.60	19.53	19.48	20.00
		25	0	19.49	19.46	19.50	20.00
		25	13	19.51	19.49	19.50	20.00
		25	25	19.37	19.35	19.41	20.00



	256QAM	50	0	19.40	19.35	19.31	20.00
		1	0	18.12	18.08	18.15	19.00
		1	25	18.46	18.40	18.36	19.00
		1	49	18.56	18.40	18.42	19.00
		25	0	18.15	18.16	18.15	19.00
		25	13	18.51	18.50	18.51	19.00
		25	25	18.14	18.10	18.12	19.00
		50	0	18.38	18.28	18.30	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.48	19.50	19.40	20.00
		1	38	19.62	19.65	19.67	20.00
		1	74	19.50	19.37	19.37	20.00
		36	0	19.60	19.58	19.57	20.00
		36	18	19.59	19.59	19.44	20.00
		36	39	19.57	19.54	19.61	20.00
		75	0	19.49	19.44	19.54	20.00
	16QAM	1	0	19.41	19.28	19.27	20.00
		1	38	19.55	19.46	19.46	20.00
		1	74	19.42	19.57	19.49	20.00
		36	0	19.58	19.61	19.46	20.00
		36	18	19.40	19.43	19.56	20.00
		36	39	19.44	19.51	19.49	20.00
		75	0	19.52	19.54	19.47	20.00
	64QAM	1	0	19.56	19.42	19.52	20.00
		1	38	19.28	19.36	19.29	20.00
		1	74	19.40	19.61	19.53	20.00
		36	0	19.49	19.40	19.53	20.00
		36	18	19.50	19.45	19.36	20.00
		36	39	19.43	19.36	19.38	20.00
		75	0	19.45	19.40	19.43	20.00
	256QAM	1	0	18.56	18.43	18.43	19.00
		1	38	18.21	18.15	18.14	19.00
		1	74	18.50	18.48	18.49	19.00
		36	0	18.51	18.37	18.40	19.00
		36	18	18.14	18.14	18.11	19.00
		36	39	18.26	18.12	18.28	19.00
		75	0	18.49	18.47	18.42	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.54	19.55	19.59	20.00
		1	50	19.66	19.62	19.48	20.00
		1	99	19.81	19.67	19.62	20.00



		50	0	19.59	19.54	19.60	20.00
		50	25	19.46	19.36	19.43	20.00
		50	50	19.40	19.35	19.36	20.00
		100	0	19.41	19.46	19.37	20.00
	16QAM	1	0	19.58	19.62	19.81	20.00
		1	50	19.47	19.60	19.50	20.00
		1	99	19.79	19.56	19.64	20.00
		50	0	19.34	19.40	19.28	20.00
		50	25	19.65	19.58	19.57	20.00
		50	50	19.58	19.48	19.49	20.00
		100	0	19.46	19.48	19.51	20.00
	64QAM	1	0	19.63	19.60	19.46	20.00
		1	50	19.54	19.81	19.65	20.00
		1	99	19.41	19.60	19.58	20.00
		50	0	19.43	19.40	19.33	20.00
		50	25	19.57	19.47	19.43	20.00
		50	50	19.68	19.62	19.54	20.00
		100	0	19.50	19.50	19.47	20.00
	256QAM	1	0	18.41	18.23	18.29	19.00
		1	50	18.60	18.32	18.37	19.00
		1	99	18.37	18.26	18.50	19.00
		50	0	18.25	18.28	18.19	19.00
		50	25	18.43	18.34	18.44	19.00
		50	50	18.39	18.39	18.48	19.00
		100	0	18.50	18.46	18.53	19.00

LTE FDD Band 7 ANT 5 Level 6&7&8				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	16.97	17.04	17.01	17.50
		1	13	16.94	16.86	17.08	17.50
		1	24	17.19	17.03	17.13	17.50
		12	0	16.92	16.81	16.74	17.50
		12	6	17.19	17.03	17.01	17.50
		12	13	16.80	16.88	16.80	17.50
		25	0	17.26	17.07	17.15	17.50
	16QAM	1	0	17.05	17.00	16.91	17.50
		1	13	17.00	16.93	16.91	17.50
		1	24	17.11	16.91	16.87	17.50
		12	0	17.10	16.98	17.14	17.50
		12	6	17.08	17.07	17.14	17.50
		12	13	16.88	16.95	16.85	17.50



	64QAM	25	0	17.08	16.87	16.98	17.50
		1	0	17.04	17.09	17.10	17.50
		1	13	17.19	17.11	17.23	17.50
		1	24	17.14	16.89	16.82	17.50
		12	0	16.71	16.98	16.89	17.50
		12	6	16.79	16.93	16.87	17.50
		12	13	17.06	16.84	16.85	17.50
		25	0	17.10	17.02	16.93	17.50
	256QAM	1	0	17.01	16.91	17.01	17.50
		1	13	16.84	16.93	16.95	17.50
		1	24	17.09	17.13	17.26	17.50
		12	0	16.97	16.93	16.77	17.50
		12	6	17.10	17.03	16.84	17.50
		12	13	16.79	16.88	16.94	17.50
25		0	17.10	17.09	17.08	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	16.85	16.71	16.93	17.50
		1	25	17.05	17.12	16.95	17.50
		1	49	17.26	17.08	17.22	17.50
		25	0	16.86	16.83	16.87	17.50
		25	13	17.12	17.14	17.07	17.50
		25	25	16.87	16.73	16.84	17.50
		50	0	17.08	17.03	17.05	17.50
	16QAM	1	0	16.90	17.03	17.07	17.50
		1	25	16.96	16.90	16.93	17.50
		1	49	17.01	16.88	17.11	17.50
		25	0	16.81	16.89	16.95	17.50
		25	13	16.95	16.99	16.88	17.50
		25	25	17.01	17.10	17.03	17.50
		50	0	16.91	16.74	16.85	17.50
	64QAM	1	0	16.84	16.90	16.79	17.50
		1	25	17.00	16.97	16.90	17.50
		1	49	17.17	17.09	16.97	17.50
		25	0	17.05	17.04	17.10	17.50
		25	13	17.15	17.06	17.13	17.50
		25	25	17.07	17.13	17.12	17.50
		50	0	17.08	16.97	16.99	17.50
	256QAM	1	0	16.74	16.85	16.69	17.50
		1	25	17.07	17.02	16.90	17.50
		1	49	17.04	16.87	16.97	17.50
		25	0	16.93	16.82	16.74	17.50
		25	13	17.08	17.16	17.02	17.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	25	25	16.81	16.73	16.72	17.50
		50	0	16.92	16.97	16.87	17.50
		1	0	17.15	17.04	17.07	17.50
		1	38	16.91	16.90	16.76	17.50
		1	74	17.09	17.20	17.22	17.50
		36	0	17.09	17.08	17.13	17.50
		36	18	16.87	16.87	16.84	17.50
	36	39	17.03	16.76	16.90	17.50	
	75	0	17.27	17.18	17.17	17.50	
	16QAM	1	0	16.89	16.86	16.92	17.50
		1	38	17.01	17.00	16.98	17.50
		1	74	16.86	16.77	16.81	17.50
		36	0	16.89	16.94	16.98	17.50
		36	18	16.93	16.80	16.76	17.50
		36	39	17.22	17.18	17.19	17.50
		75	0	16.90	16.83	16.82	17.50
	64QAM	1	0	16.89	16.84	16.88	17.50
		1	38	16.77	16.83	16.86	17.50
		1	74	17.07	16.97	16.96	17.50
		36	0	16.80	16.78	16.92	17.50
		36	18	17.07	17.09	17.05	17.50
		36	39	16.92	16.99	17.09	17.50
		75	0	16.95	16.93	16.86	17.50
	256QAM	1	0	17.12	17.12	16.98	17.50
		1	38	16.89	16.88	16.73	17.50
		1	74	17.12	17.15	16.98	17.50
		36	0	16.95	17.01	17.01	17.50
		36	18	16.89	16.87	16.90	17.50
36		39	16.83	16.72	16.93	17.50	
75		0	17.23	16.97	16.99	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	16.96	16.90	16.87	17.50
		1	50	17.31	16.89	17.05	17.50
		1	99	17.07	16.94	17.04	17.50
		50	0	16.99	16.80	16.77	17.50
		50	25	17.12	17.04	17.09	17.50
		50	50	17.01	16.98	17.13	17.50
		100	0	17.10	17.12	17.17	17.50
	16QAM	1	0	16.80	17.04	16.93	17.50
		1	50	16.91	17.06	16.89	17.50



		1	99	17.13	16.88	16.98	17.50
		50	0	16.91	16.92	16.93	17.50
		50	25	17.02	16.96	16.95	17.50
		50	50	17.05	16.83	16.89	17.50
		100	0	17.04	17.08	17.15	17.50
	64QAM	1	0	16.83	17.29	17.08	17.50
		1	50	16.80	16.95	16.94	17.50
		1	99	16.95	16.87	16.95	17.50
		50	0	16.78	16.75	16.69	17.50
		50	25	16.92	16.85	16.98	17.50
		50	50	17.08	17.14	16.93	17.50
		100	0	17.06	17.08	17.03	17.50
	256QAM	1	0	16.98	16.79	16.95	17.50
		1	50	17.07	16.91	16.96	17.50
		1	99	16.94	16.77	17.00	17.50
		50	0	16.90	16.79	16.84	17.50
		50	25	17.00	16.99	16.93	17.50
		50	50	16.87	16.95	17.14	17.50
		100	0	17.16	17.03	17.20	17.50

LTE FDD Band 7 ANT 3 Level 1&2&3&4				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	11.62	11.61	11.64	13.00
		1	13	11.45	11.35	11.33	13.00
		1	24	11.49	11.40	11.41	13.00
		12	0	11.54	11.51	11.54	13.00
		12	6	11.37	11.38	11.29	13.00
		12	13	11.43	11.42	11.45	13.00
		25	0	11.43	11.33	11.41	13.00
	16QAM	1	0	11.39	11.36	11.32	13.00
		1	13	11.45	11.44	11.46	13.00
		1	24	11.39	11.37	11.34	13.00
		12	0	11.52	11.57	11.52	13.00
		12	6	11.51	11.45	11.50	13.00
		12	13	11.67	11.54	11.65	13.00
		25	0	11.55	11.49	11.44	13.00
	64QAM	1	0	11.69	11.63	11.57	13.00
		1	13	11.63	11.65	11.58	13.00
		1	24	11.36	11.34	11.24	13.00
		12	0	11.43	11.28	11.33	13.00



		12	6	11.67	11.51	11.49	13.00
		12	13	11.47	11.35	11.48	13.00
		25	0	11.56	11.60	11.50	13.00
	256QAM	1	0	11.57	11.59	11.63	13.00
		1	13	11.41	11.24	11.27	13.00
		1	24	11.44	11.37	11.35	13.00
		12	0	11.45	11.44	11.46	13.00
		12	6	11.27	11.31	11.22	13.00
		12	13	11.42	11.34	11.35	13.00
25	0	11.38	11.32	11.32	13.00		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	11.57	11.43	11.42	13.00
		1	25	11.39	11.33	11.38	13.00
		1	49	11.46	11.43	11.48	13.00
		25	0	11.42	11.34	11.38	13.00
		25	13	11.51	11.45	11.57	13.00
		25	25	11.57	11.58	11.55	13.00
		50	0	11.54	11.53	11.53	13.00
	16QAM	1	0	11.58	11.52	11.57	13.00
		1	25	11.38	11.28	11.34	13.00
		1	49	11.46	11.41	11.42	13.00
		25	0	11.60	11.52	11.62	13.00
		25	13	11.49	11.48	11.45	13.00
		25	25	11.53	11.59	11.60	13.00
		50	0	11.56	11.38	11.51	13.00
	64QAM	1	0	11.52	11.42	11.57	13.00
		1	25	11.47	11.39	11.32	13.00
		1	49	11.51	11.44	11.52	13.00
		25	0	11.41	11.47	11.41	13.00
		25	13	11.59	11.56	11.57	13.00
		25	25	11.57	11.58	11.55	13.00
		50	0	11.32	11.29	11.38	13.00
	256QAM	1	0	11.47	11.41	11.34	13.00
		1	25	11.38	11.24	11.37	13.00
		1	49	11.42	11.43	11.41	13.00
		25	0	11.32	11.32	11.32	13.00
		25	13	11.45	11.42	11.56	13.00
		25	25	11.53	11.49	11.52	13.00
		50	0	11.49	11.45	11.44	13.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	11.34	11.42	11.34	13.00



		1	38	11.51	11.37	11.46	13.00
		1	74	11.55	11.49	11.42	13.00
		36	0	11.58	11.57	11.50	13.00
		36	18	11.49	11.45	11.43	13.00
		36	39	11.45	11.45	11.55	13.00
		75	0	11.52	11.40	11.39	13.00
		1	0	11.39	11.44	11.43	13.00
	16QAM	1	38	11.36	11.28	11.28	13.00
		1	74	11.57	11.46	11.54	13.00
		36	0	11.45	11.42	11.42	13.00
		36	18	11.53	11.35	11.35	13.00
		36	39	11.55	11.47	11.35	13.00
		75	0	11.48	11.46	11.55	13.00
		1	0	11.35	11.38	11.33	13.00
	64QAM	1	38	11.42	11.30	11.31	13.00
		1	74	11.73	11.60	11.62	13.00
		36	0	11.63	11.60	11.57	13.00
		36	18	11.37	11.26	11.33	13.00
		36	39	11.67	11.62	11.53	13.00
		75	0	11.45	11.40	11.48	13.00
		1	0	11.33	11.34	11.31	13.00
	256QAM	1	38	11.49	11.28	11.41	13.00
		1	74	11.48	11.47	11.33	13.00
		36	0	11.53	11.50	11.50	13.00
		36	18	11.41	11.37	11.35	13.00
		36	39	11.39	11.44	11.51	13.00
		75	0	11.42	11.32	11.34	13.00
		Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)	
				20850/2510	21100/2535	21350/2560	Limit
20MHz	QPSK	1	0	11.48	11.54	11.69	13.00
		1	50	11.78	11.61	11.80	13.00
		1	99	11.69	11.70	11.66	13.00
		50	0	11.48	11.54	11.44	13.00
		50	25	11.52	11.56	11.55	13.00
		50	50	11.53	11.49	11.40	13.00
		100	0	11.61	11.47	11.55	13.00
	16QAM	1	0	11.74	11.69	11.66	13.00
		1	50	11.64	11.57	11.61	13.00
		1	99	11.68	11.83	11.81	13.00
		50	0	11.42	11.40	11.50	13.00
		50	25	11.38	11.40	11.35	13.00
		50	50	11.56	11.66	11.65	13.00
		100	0	11.68	11.51	11.58	13.00



	64QAM	1	0	11.54	11.69	11.45	13.00
		1	50	11.40	11.54	11.59	13.00
		1	99	11.55	11.53	11.41	13.00
		50	0	11.41	11.28	11.31	13.00
		50	25	11.50	11.52	11.54	13.00
		50	50	11.43	11.39	11.47	13.00
		100	0	11.42	11.43	11.38	13.00
	256QAM	1	0	11.43	11.53	11.69	13.00
		1	50	11.71	11.54	11.69	13.00
		1	99	11.62	11.67	11.64	13.00
		50	0	11.43	11.46	11.35	13.00
		50	25	11.44	11.53	11.55	13.00
		50	50	11.47	11.46	11.36	13.00
		100	0	11.60	11.45	11.51	13.00

LTE FDD Band 7 ANT 3 Level 5				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	18.44	18.27	18.31	20.00
		1	13	18.49	18.50	18.45	20.00
		1	24	18.34	18.29	18.39	20.00
		12	0	18.48	18.32	18.31	20.00
		12	6	18.47	18.52	18.56	20.00
		12	13	18.56	18.49	18.46	20.00
		25	0	18.65	18.54	18.68	20.00
	16QAM	1	0	18.50	18.47	18.43	20.00
		1	13	18.55	18.46	18.47	20.00
		1	24	18.65	18.61	18.56	20.00
		12	0	18.63	18.59	18.56	20.00
		12	6	18.42	18.39	18.42	20.00
		12	13	18.34	18.32	18.29	20.00
		25	0	18.71	18.52	18.59	20.00
	64QAM	1	0	18.48	18.42	18.44	20.00
		1	13	18.46	18.36	18.30	20.00
		1	24	18.60	18.63	18.55	20.00
		12	0	18.45	18.49	18.48	20.00
		12	6	18.51	18.51	18.59	20.00
		12	13	18.60	18.60	18.65	20.00
		25	0	18.50	18.48	18.43	20.00
	256QAM	1	0	17.31	17.24	17.17	19.00
		1	13	17.37	17.42	17.31	19.00
		1	24	17.24	17.38	17.37	19.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz		12	0	17.25	17.24	17.44	19.00
		12	6	17.35	17.33	17.33	19.00
		12	13	17.21	17.58	17.31	19.00
		25	0	17.27	17.21	17.41	19.00
	QPSK	1	0	18.54	18.59	18.51	20.00
		1	25	18.60	18.63	18.63	20.00
		1	49	18.55	18.50	18.56	20.00
		25	0	18.45	18.42	18.38	20.00
		25	13	18.54	18.47	18.49	20.00
		25	25	18.59	18.62	18.61	20.00
		50	0	18.60	18.65	18.59	20.00
	16QAM	1	0	18.39	18.36	18.25	20.00
		1	25	18.51	18.49	18.46	20.00
		1	49	18.66	18.52	18.56	20.00
		25	0	18.47	18.47	18.45	20.00
		25	13	18.50	18.52	18.44	20.00
		25	25	18.51	18.43	18.41	20.00
		50	0	18.45	18.35	18.44	20.00
	64QAM	1	0	18.64	18.54	18.57	20.00
		1	25	18.56	18.55	18.55	20.00
		1	49	18.46	18.43	18.34	20.00
		25	0	18.58	18.42	18.46	20.00
		25	13	18.45	18.39	18.39	20.00
		25	25	18.60	18.47	18.54	20.00
		50	0	18.56	18.52	18.50	20.00
	256QAM	1	0	17.10	17.06	17.25	19.00
		1	25	17.27	17.20	17.45	19.00
		1	49	17.23	17.33	17.39	19.00
25		0	17.45	17.23	17.25	19.00	
25		13	17.23	17.33	17.55	19.00	
25		25	17.41	17.40	17.54	19.00	
50		0	17.39	17.36	17.40	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	18.69	18.59	18.51	20.00
		1	38	18.44	18.52	18.42	20.00
		1	74	18.63	18.49	18.60	20.00
		36	0	18.45	18.33	18.40	20.00
		36	18	18.46	18.37	18.47	20.00
		36	39	18.60	18.49	18.53	20.00
		75	0	18.48	18.33	18.32	20.00



	16QAM	1	0	18.55	18.54	18.41	20.00
		1	38	18.36	18.41	18.40	20.00
		1	74	18.55	18.53	18.60	20.00
		36	0	18.67	18.60	18.53	20.00
		36	18	18.42	18.41	18.36	20.00
		36	39	18.49	18.44	18.42	20.00
		75	0	18.43	18.47	18.52	20.00
	64QAM	1	0	18.54	18.62	18.63	20.00
		1	38	18.44	18.37	18.35	20.00
		1	74	18.41	18.48	18.47	20.00
		36	0	18.46	18.35	18.33	20.00
		36	18	18.45	18.43	18.45	20.00
		36	39	18.52	18.45	18.54	20.00
		75	0	18.34	18.31	18.35	20.00
	256QAM	1	0	17.38	17.26	17.28	19.00
		1	38	17.37	17.36	17.32	19.00
		1	74	17.07	17.26	17.41	19.00
		36	0	17.30	17.52	17.29	19.00
		36	18	17.35	17.33	17.58	19.00
		36	39	17.44	17.32	17.45	19.00
		75	0	17.55	17.32	17.29	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	18.70	18.69	18.76	20.00
		1	50	18.73	18.48	18.56	20.00
		1	99	18.52	18.60	18.74	20.00
		50	0	18.51	18.45	18.49	20.00
		50	25	18.40	18.40	18.32	20.00
		50	50	18.53	18.46	18.53	20.00
		100	0	18.71	18.63	18.66	20.00
	16QAM	1	0	18.55	18.47	18.44	20.00
		1	50	18.44	18.33	18.35	20.00
		1	99	18.54	18.76	18.66	20.00
		50	0	18.40	18.48	18.42	20.00
		50	25	18.67	18.57	18.56	20.00
		50	50	18.53	18.50	18.53	20.00
		100	0	18.72	18.63	18.64	20.00
	64QAM	1	0	18.54	18.42	18.53	20.00
		1	50	18.75	18.48	18.53	20.00
		1	99	18.77	18.77	18.70	20.00
		50	0	18.46	18.55	18.49	20.00
		50	25	18.42	18.26	18.32	20.00
		50	50	18.49	18.44	18.33	20.00



		100	0	18.42	18.40	18.28	20.00
	256QAM	1	0	17.44	17.35	17.34	19.00
		1	50	17.31	17.38	17.13	19.00
		1	99	17.36	17.50	17.18	19.00
		50	0	17.40	17.33	17.37	19.00
		50	25	17.25	17.63	17.36	19.00
		50	50	17.42	17.65	17.42	19.00
		100	0	17.33	17.50	17.29	19.00

LTE FDD Band 7 ANT 3 Level 6&7&8				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	16.69	16.46	16.52	17.50
		1	13	16.32	16.34	16.23	17.50
		1	24	16.61	16.49	16.45	17.50
		12	0	16.31	16.47	16.41	17.50
		12	6	16.57	16.57	16.53	17.50
		12	13	16.36	16.25	16.27	17.50
		25	0	16.40	16.39	16.33	17.50
	16QAM	1	0	16.58	16.46	16.31	17.50
		1	13	16.41	16.48	16.66	17.50
		1	24	16.48	16.28	16.16	17.50
		12	0	16.47	16.32	16.30	17.50
		12	6	16.32	16.11	16.20	17.50
		12	13	16.32	16.27	16.25	17.50
		25	0	16.48	16.38	16.28	17.50
	64QAM	1	0	16.14	16.21	16.23	17.50
		1	13	16.33	16.25	16.39	17.50
		1	24	16.35	16.38	16.36	17.50
		12	0	16.69	16.43	16.47	17.50
		12	6	16.52	16.50	16.45	17.50
		12	13	16.35	16.38	16.42	17.50
		25	0	16.56	16.44	16.50	17.50
	256QAM	1	0	16.05	16.29	16.13	17.50
		1	13	16.10	16.29	16.24	17.50
		1	24	16.30	16.22	16.44	17.50
		12	0	16.04	16.39	16.32	17.50
		12	6	16.30	16.45	16.25	17.50
		12	13	16.06	16.37	16.39	17.50
		25	0	16.22	16.37	16.09	17.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	16.31	16.31	16.20	17.50
		1	25	16.43	16.55	16.30	17.50
		1	49	16.44	16.43	16.53	17.50
		25	0	16.28	16.26	16.29	17.50
		25	13	16.26	16.30	16.27	17.50
		25	25	16.36	16.29	16.38	17.50
		50	0	16.27	16.27	16.30	17.50
	16QAM	1	0	16.29	16.20	16.12	17.50
		1	25	16.57	16.45	16.54	17.50
		1	49	16.27	16.39	16.28	17.50
		25	0	16.31	16.16	16.23	17.50
		25	13	16.29	16.33	16.33	17.50
		25	25	16.23	16.24	16.34	17.50
		50	0	16.49	16.48	16.53	17.50
	64QAM	1	0	16.45	16.41	16.36	17.50
		1	25	16.50	16.44	16.54	17.50
		1	49	16.51	16.59	16.52	17.50
		25	0	16.23	16.31	16.20	17.50
		25	13	16.67	16.33	16.55	17.50
		25	25	16.24	16.25	16.28	17.50
		50	0	16.20	16.30	16.04	17.50
	256QAM	1	0	16.13	16.05	16.16	17.50
		1	25	16.27	16.03	16.13	17.50
		1	49	16.07	16.19	16.25	17.50
25		0	16.10	16.34	16.12	17.50	
25		13	16.24	16.05	16.38	17.50	
25		25	16.22	16.27	16.48	17.50	
50		0	16.27	15.99	16.17	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
15MHz	QPSK	1	0	20825/2507.5	21100/2535	21375/2562.5	17.50
		1	38	16.29	16.34	16.15	17.50
		1	74	16.39	16.41	16.40	17.50
		36	0	16.52	16.33	16.49	17.50
		36	18	16.55	16.45	16.43	17.50
		36	39	16.48	16.16	16.40	17.50
		75	0	16.57	16.40	16.39	17.50
	16QAM	1	0	16.24	16.15	16.33	17.50
		1	38	16.37	16.41	16.35	17.50
		1	74	16.56	16.59	16.47	17.50
		36	0	16.31	16.35	16.44	17.50



		36	18	16.44	16.38	16.54	17.50
		36	39	16.27	16.41	16.38	17.50
		75	0	16.28	16.29	16.40	17.50
	64QAM	1	0	16.48	16.38	16.20	17.50
		1	38	16.30	16.18	16.35	17.50
		1	74	16.28	16.35	16.10	17.50
		36	0	16.30	16.36	16.32	17.50
		36	18	16.48	16.24	16.29	17.50
		36	39	16.49	16.44	16.59	17.50
		75	0	16.59	16.36	16.53	17.50
	256QAM	1	0	16.19	16.08	16.07	17.50
		1	38	16.02	16.17	16.27	17.50
		1	74	16.19	16.17	16.28	17.50
		36	0	16.20	16.20	16.52	17.50
		36	18	16.22	16.44	16.34	17.50
36		39	16.23	16.51	16.39	17.50	
75		0	16.13	16.41	16.39	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	16.49	16.51	16.66	17.50
		1	50	16.71	16.68	16.68	17.50
		1	99	16.42	16.22	16.39	17.50
		50	0	16.53	16.55	16.43	17.50
		50	25	16.53	16.61	16.40	17.50
		50	50	16.53	16.43	16.52	17.50
		100	0	16.36	16.35	16.35	17.50
	16QAM	1	0	16.52	16.66	16.40	17.50
		1	50	16.69	16.46	16.57	17.50
		1	99	16.59	16.64	16.39	17.50
		50	0	16.44	16.37	16.36	17.50
		50	25	16.57	16.31	16.44	17.50
		50	50	16.43	16.30	16.26	17.50
		100	0	16.59	16.54	16.48	17.50
	64QAM	1	0	16.20	16.32	16.47	17.50
		1	50	16.29	16.39	16.32	17.50
		1	99	16.23	16.37	16.31	17.50
		50	0	16.41	16.35	16.19	17.50
		50	25	16.48	16.48	16.35	17.50
		50	50	16.36	16.44	16.49	17.50
		100	0	16.40	16.42	16.34	17.50
	256QAM	1	0	16.09	16.17	16.17	17.50
		1	50	16.15	16.21	16.24	17.50
		1	99	16.12	16.50	16.17	17.50



		50	0	16.17	16.22	16.26	17.50
		50	25	16.20	16.60	16.29	17.50
		50	50	16.19	16.41	16.26	17.50
		100	0	16.31	16.12	16.12	17.50

9.1.4 LTE CA (EN-DC)

LTE Uplink 2CA_ Band 7-ANT3 Level 1&2&3&4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	11.13	12.5
21100	21298	20	QPSK	1	99	1	0	2	11.17	12.5
21350	21152	20	QPSK	1	0	1	99	2	11.24	12.5
LTE Uplink 2CA_ Band 7-ANT3 Level 6&7&8										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
20850	21048	20	QPSK	1	99	1	0	2	15.85	17
21100	21298	20	QPSK	1	99	1	0	2	16.03	17
21350	21152	20	QPSK	1	0	1	99	2	15.92	17

9.1.5 NR (EN-DC)

N5-ANT0 Full Power & Level 1&2&3&4&5&6&7&8 (Only for EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				165300/ 826.5	167300/ 836.5	169300/ 846.5	
5	DFT-s-OFDM QPSK	1	1	23.26	23.28	23.18	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				165800/ 829	167300/ 836.5	168800/ 844	
10	DFT-s-OFDM QPSK	1	1	23.15	23.10	23.08	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166300/ 831.5	167300/ 836.5	168300/ 841.5	
15	DFT-s-OFDM QPSK	1	1	23.35	23.35	23.32	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166800/ 834	167300/ 836.5	167800/ 839	
20	DFT-s-OFDM QPSK	1	1	23.38	23.36	22.94	24.50
		1	53	23.10	23.25	23.20	24.50
		1	104	23.13	23.04	23.02	24.50
	DFT-s-OFDM QPSK	50	0	22.52	22.53	22.52	24.50
		50	28	23.25	23.26	23.24	24.50
		50	56	22.53	22.55	22.52	24.50
	DFT-s-OFDM QPSK	100	0	22.33	22.28	22.38	23.50
	DFT-s-OFDM 16QAM	1	1	22.53	22.53	22.60	23.50
	DFT-s-OFDM 64QAM	1	1	20.78	20.79	20.71	22.00
	DFT-s-OFDM 256QAM	1	1	18.06	18.12	18.10	20.00
	CP-OFDM QPSK	1	1	21.85	21.81	21.74	23.00
	CP-OFDM 16QAM	1	1	21.25	21.33	21.36	22.50
	CP-OFDM 64QAM	1	1	19.67	19.65	19.71	21.00
CP-OFDM 256QAM	1	1	16.05	16.10	16.13	18.00	



N5-ANT1 Full Power & Level 1&2&3&4&5&6&7&8(Only for EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				165300/ 826.5	167300/ 836.5	169300/ 846.5	
5	DFT-s-OFDM QPSK	1	1	24.19	24.23	24.22	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				165800/ 829	167300/ 836.5	168800/ 844	
10	DFT-s-OFDM QPSK	1	1	23.98	24.02	24.03	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166300/ 831.5	167300/ 836.5	168300/ 841.5	
15	DFT-s-OFDM QPSK	1	1	24.14	24.18	24.18	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166800/ 834	167300/ 836.5	167800/ 839	
20	DFT-s-OFDM QPSK	1	1	24.32	24.23	23.79	24.50
		1	53	24.02	24.18	24.15	24.50
		1	104	24.10	23.92	23.97	24.50
	DFT-s-OFDM QPSK	50	0	22.82	22.74	22.77	24.50
		50	28	24.13	24.23	24.32	24.50
		50	56	23.18	23.21	23.16	24.50
	DFT-s-OFDM QPSK	100	0	23.21	23.28	23.28	23.50
	DFT-s-OFDM 16QAM	1	1	23.37	23.45	23.48	23.50
	DFT-s-OFDM 64QAM	1	1	21.77	21.72	21.78	22.50
	DFT-s-OFDM 256QAM	1	1	18.24	18.22	18.17	20.00
	CP-OFDM QPSK	1	1	22.70	22.71	22.68	23.00
	CP-OFDM 16QAM	1	1	22.39	22.30	22.27	22.50
	CP-OFDM 64QAM	1	1	20.51	20.57	20.50	21.50
CP-OFDM 256QAM	1	1	16.17	16.17	16.19	18.00	

N7-ANT3 Level1 (SA & EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	13.70	13.83	13.68	14.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	14.01	14.01	13.65	14.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	13.87	13.95	13.98	14.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	14.06	13.71	13.96	14.50
		1	53	14.03	13.87	13.96	14.50
		1	104	14.06	13.88	13.63	14.50
	DFT-s-OFDM QPSK	50	0	13.81	13.88	13.83	14.50
		50	28	13.82	13.81	13.60	14.50
		50	56	13.83	13.90	13.72	14.50
	DFT-s-OFDM QPSK	100	0	13.76	13.68	13.97	14.50
	DFT-s-OFDM 16QAM	1	1	13.89	13.76	13.66	14.50
	DFT-s-OFDM 64QAM	1	1	13.95	13.76	13.80	14.50
	DFT-s-OFDM 256QAM	1	1	13.93	14.00	13.96	14.50
	CP-OFDM QPSK	1	1	13.84	13.73	13.80	14.50
	CP-OFDM 16QAM	1	1	13.72	13.95	13.67	14.50
	CP-OFDM 64QAM	1	1	13.74	13.64	13.78	14.50
CP-OFDM 256QAM	1	1	13.72	13.61	13.73	14.50	



N7-ANT3 Level2&3&4(SA & EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	11.98	11.75	11.94	12.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	11.87	11.80	11.82	12.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	12.01	12.02	11.79	12.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	11.82	12.00	11.91	12.50
		1	53	11.87	11.86	11.92	12.50
		1	104	12.05	11.88	11.80	12.50
	DFT-s-OFDM QPSK	50	0	12.00	11.73	11.97	12.50
		50	28	12.02	12.03	11.69	12.50
		50	56	11.90	11.81	11.69	12.50
	DFT-s-OFDM QPSK	100	0	11.91	11.95	11.88	12.50
	DFT-s-OFDM 16QAM	1	1	12.02	11.77	11.76	12.50
	DFT-s-OFDM 64QAM	1	1	11.80	11.77	11.90	12.50
	DFT-s-OFDM 256QAM	1	1	11.94	11.86	11.92	12.50
	CP-OFDM QPSK	1	1	11.88	11.86	11.73	12.50
	CP-OFDM 16QAM	1	1	12.02	11.75	11.79	12.50
	CP-OFDM 64QAM	1	1	11.83	11.84	11.85	12.50
CP-OFDM 256QAM	1	1	11.91	11.88	11.94	12.50	



N7-ANT3 Level5&6&7&8 (SA & EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	18.03	17.89	17.87	18.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	18.07	17.80	17.76	18.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	17.92	17.96	17.97	18.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	18.13	17.90	17.78	18.50
		1	53	18.11	18.03	17.98	18.50
		1	104	17.86	17.98	17.73	18.50
	DFT-s-OFDM QPSK	50	0	17.96	17.85	17.99	18.50
		50	28	17.89	18.01	17.69	18.50
		50	56	18.02	17.73	17.68	18.50
	DFT-s-OFDM QPSK	100	0	17.88	17.79	17.68	18.50
	DFT-s-OFDM 16QAM	1	1	18.06	17.76	17.73	18.50
	DFT-s-OFDM 64QAM	1	1	17.81	17.79	17.77	18.50
	DFT-s-OFDM 256QAM	1	1	17.05	17.11	17.06	18.50
	CP-OFDM QPSK	1	1	17.80	18.03	17.72	18.50
	CP-OFDM 16QAM	1	1	17.86	17.87	18.02	18.50
	CP-OFDM 64QAM	1	1	17.82	17.74	17.96	18.50
CP-OFDM 256QAM	1	1	15.05	15.08	15.09	18.50	



N7-ANT4 Full Power & Level1&2&3&4 (Only for SA)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	23.69	23.72	23.70	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	23.71	23.64	23.61	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	23.74	23.68	23.73	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	23.75	23.70	23.70	24.00
		1	53	23.73	23.68	23.31	24.00
		1	104	23.69	23.58	23.62	24.00
	DFT-s-OFDM QPSK	50	0	23.16	23.23	23.29	24.00
		50	28	23.68	23.70	23.62	24.00
		50	56	23.25	23.20	23.30	24.00
	DFT-s-OFDM QPSK	100	0	23.13	23.16	23.13	24.00
	DFT-s-OFDM 16QAM	1	1	23.12	23.08	23.05	24.00
	DFT-s-OFDM 64QAM	1	1	21.67	21.67	21.57	22.50
	DFT-s-OFDM 256QAM	1	1	17.76	17.72	17.67	19.50
	CP-OFDM QPSK	1	1	22.64	22.64	22.71	23.50
	CP-OFDM 16QAM	1	1	21.76	21.85	21.79	23.00
	CP-OFDM 64QAM	1	1	20.51	20.57	20.58	22.00
CP-OFDM 256QAM	1	1	15.74	15.71	15.73	17.50	



N7-ANT4 Level5&6&7&8 (Only for SA)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	21.72	21.74	21.70	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	21.58	21.70	21.79	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	21.59	21.63	21.74	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	21.68	21.67	21.75	22.00
		1	53	21.81	21.80	21.74	22.00
		1	104	21.79	21.58	21.66	22.00
	DFT-s-OFDM QPSK	50	0	21.73	21.80	21.55	22.00
		50	28	21.54	21.61	21.79	22.00
		50	56	21.55	21.59	21.71	22.00
	DFT-s-OFDM QPSK	100	0	21.68	21.69	21.60	22.00
	DFT-s-OFDM 16QAM	1	1	21.54	21.76	21.76	22.00
	DFT-s-OFDM 64QAM	1	1	21.77	21.71	21.73	22.00
	DFT-s-OFDM 256QAM	1	1	17.68	17.72	17.70	19.50
	CP-OFDM QPSK	1	1	21.62	21.72	21.67	22.00
	CP-OFDM 16QAM	1	1	21.65	21.58	21.69	22.00
	CP-OFDM 64QAM	1	1	20.37	20.42	20.50	22.00
CP-OFDM 256QAM	1	1	15.67	15.72	15.70	17.50	



N7-ANT5 Level1(Only for EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	13.90	14.00	13.81	14.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	14.10	14.15	13.76	14.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	14.06	13.94	13.80	14.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	14.01	14.02	13.75	14.50
		1	53	13.81	14.18	13.92	14.50
		1	104	14.10	14.05	14.09	14.50
	DFT-s-OFDM QPSK	50	0	14.08	14.08	13.92	14.50
		50	28	13.81	14.01	13.85	14.50
		50	56	13.89	13.81	13.92	14.50
	DFT-s-OFDM QPSK	100	0	13.83	14.01	13.92	14.50
	DFT-s-OFDM 16QAM	1	1	13.99	14.03	13.97	14.50
	DFT-s-OFDM 64QAM	1	1	14.14	13.94	14.00	14.50
	DFT-s-OFDM 256QAM	1	1	14.08	14.13	14.04	14.50
	CP-OFDM QPSK	1	1	14.09	13.94	14.07	14.50
	CP-OFDM 16QAM	1	1	13.83	14.03	13.79	14.50
	CP-OFDM 64QAM	1	1	14.02	14.17	13.95	14.50
CP-OFDM 256QAM	1	1	14.03	13.99	13.94	14.50	



N7-ANT5 Level2&3&4 (Only for EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	11.17	11.24	10.94	11.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	11.31	11.32	10.89	11.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	11.21	11.09	11.02	11.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	11.12	11.17	11.11	11.50
		1	53	11.30	11.39	11.26	11.50
		1	104	11.30	11.25	11.33	11.50
	DFT-s-OFDM QPSK	50	0	11.33	11.33	11.05	11.50
		50	28	10.98	11.17	11.09	11.50
		50	56	11.05	10.99	11.06	11.50
	DFT-s-OFDM QPSK	100	0	10.93	11.11	11.20	11.50
	DFT-s-OFDM 16QAM	1	1	11.17	11.24	11.23	11.50
	DFT-s-OFDM 64QAM	1	1	11.22	11.13	11.18	11.50
	DFT-s-OFDM 256QAM	1	1	11.32	11.35	11.27	11.50
	CP-OFDM QPSK	1	1	11.36	11.13	11.20	11.50
	CP-OFDM 16QAM	1	1	10.97	11.15	10.99	11.50
	CP-OFDM 64QAM	1	1	11.28	11.38	11.23	11.50
CP-OFDM 256QAM	1	1	11.16	11.10	11.05	11.50	



N7-ANT5 Level5 (Only for EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	19.57	19.53	19.41	20.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	19.52	19.41	19.43	20.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	19.46	19.63	19.44	20.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	19.67	19.68	19.61	20.00
		1	53	19.46	19.54	19.51	20.00
		1	104	19.46	19.46	19.50	20.00
	DFT-s-OFDM QPSK	50	0	19.45	19.46	19.57	20.00
		50	28	19.61	19.49	19.59	20.00
		50	56	19.65	19.53	19.36	20.00
	DFT-s-OFDM QPSK	100	0	19.61	19.67	19.40	20.00
	DFT-s-OFDM 16QAM	1	1	19.39	19.54	19.46	20.00
	DFT-s-OFDM 64QAM	1	1	19.47	19.60	19.54	20.00
	DFT-s-OFDM 256QAM	1	1	17.61	17.65	17.63	19.50
	CP-OFDM QPSK	1	1	19.46	19.53	19.49	20.00
	CP-OFDM 16QAM	1	1	19.53	19.61	19.45	20.00
	CP-OFDM 64QAM	1	1	19.65	19.44	19.57	20.00
CP-OFDM 256QAM	1	1	15.60	15.69	15.58	17.50	



N7-ANT5 Level6&7&8 (Only for EN-DC)		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	18.42	18.63	18.35	19.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	18.48	18.60	18.41	19.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	18.39	18.50	18.39	19.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	18.53	18.66	18.62	19.00
		1	53	18.61	18.57	18.62	19.00
		1	104	18.45	18.43	18.39	19.00
	DFT-s-OFDM QPSK	50	0	18.50	18.48	18.35	19.00
		50	28	18.54	18.60	18.42	19.00
		50	56	18.40	18.48	18.63	19.00
	DFT-s-OFDM QPSK	100	0	18.39	18.45	18.49	19.00
	DFT-s-OFDM 16QAM	1	1	18.57	18.45	18.56	19.00
	DFT-s-OFDM 64QAM	1	1	18.42	18.42	18.42	19.00
	DFT-s-OFDM 256QAM	1	1	17.71	17.64	17.61	19.00
	CP-OFDM QPSK	1	1	18.65	18.40	18.34	19.00
	CP-OFDM 16QAM	1	1	18.40	18.60	18.44	19.00
	CP-OFDM 64QAM	1	1	18.58	18.44	18.50	19.00
CP-OFDM 256QAM	1	1	15.67	15.63	15.64	17.50	

N41-ANT3 Level1(Only for SA)		Conducted Power(dBm)					Tune-up Limit (dBm)		
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				501204/2506.2	509904/2549.52	518598/2592.99	527298/2636.49	535998/2679.99	
20	DFT-s-OFDM QPSK	1	1	14.04	13.96	14.09	14.22	14.19	15.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)		
				503202/2516.01	510900/2554.5	518598/2592.99		526302/2631.5	534000/2670
40	DFT-s-OFDM QPSK	1	1	14.11	14.08	14.11	14.21	14.09	15.00



Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	
50	DFT-s-OFDM QPSK	1	1	14.05	13.96	14.12	14.32	14.11	15.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	
60	DFT-s-OFDM QPSK	1	1	14.12	13.89	14.12	14.28	14.20	15.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	
80	DFT-s-OFDM QPSK	1	1	14.10	13.90	14.21	14.19	14.19	15.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	
90	DFT-s-OFDM QPSK	1	1	14.22	13.94	14.20	14.19	14.25	15.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/2546.01	513900/2569.5	518598/2592.99	523302/2616.51	528000/2640	
100	DFT-s-OFDM QPSK	1	1	14.06	13.94	14.28	14.25	14.19	15.00
		1	137	14.16	13.91	14.27	14.35	14.02	15.00
		1	271	14.07	13.83	14.21	14.31	14.25	15.00
	DFT-s-OFDM QPSK	135	0	14.17	13.95	14.21	14.09	14.27	15.00
		135	69	14.02	13.98	14.27	14.11	14.06	15.00
		135	138	14.08	14.05	14.09	14.21	14.12	15.00
	DFT-s-OFDM QPSK	270	0	14.21	13.83	14.07	14.15	14.06	15.00
	DFT-s-OFDM 16QAM	1	1	14.11	13.90	14.07	14.22	14.14	15.00
	DFT-s-OFDM 64QAM	1	1	14.16	13.84	14.27	14.14	14.12	15.00
	DFT-s-OFDM 256QAM	1	1	14.20	14.28	14.23	14.27	14.26	15.00
	CP-OFDM QPSK	1	1	14.11	13.91	14.32	14.27	14.09	15.00
	CP-OFDM 16QAM	1	1	14.28	13.82	14.16	14.15	14.27	15.00
CP-OFDM 64QAM	1	1	14.03	13.92	14.27	14.11	14.06	15.00	
CP-OFDM 256QAM	1	1	14.24	14.30	14.26	14.23	14.20	15.00	



N41-ANT3 Level2&3&4(Only for SA)		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				501204/2506.2	509904/2549.52	518598/2592.99	527298/2636.49	535998/2679.99	
20	DFT-s-OFDM QPSK	1	1	13.57	13.64	13.73	13.57	13.57	14.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				503202/2516.01	510900/2554.5	518598/2592.99	526302/2631.5	534000/2670	
40	DFT-s-OFDM QPSK	1	1	13.51	13.31	13.79	13.87	13.58	14.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	
50	DFT-s-OFDM QPSK	1	1	13.80	13.33	13.82	13.68	13.62	14.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	
60	DFT-s-OFDM QPSK	1	1	13.76	13.33	13.79	13.71	13.56	14.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	
80	DFT-s-OFDM QPSK	1	1	13.54	13.29	13.82	13.85	13.66	14.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	
90	DFT-s-OFDM QPSK	1	1	13.68	13.51	13.77	13.57	13.54	14.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/2546.01	513900/2569.5	518598/2592.99	523302/2616.51	528000/2640	
100	DFT-s-OFDM QPSK	1	1	13.76	13.54	13.63	13.83	13.64	14.50
		1	137	13.65	13.48	13.59	13.90	13.54	14.50
		1	271	13.64	13.31	13.68	13.58	13.50	14.50
	DFT-s-OFDM QPSK	135	0	13.74	13.35	13.66	13.71	13.71	14.50
		135	69	13.76	13.51	13.73	13.72	13.52	14.50
		135	138	13.62	13.55	13.61	13.67	13.77	14.50
	DFT-s-OFDM QPSK	270	0	13.72	13.59	13.66	13.79	13.61	14.50
	DFT-s-OFDM 16QAM	1	1	13.77	13.39	13.68	13.87	13.77	14.50
	DFT-s-OFDM 64QAM	1	1	13.52	13.47	13.75	13.61	13.62	14.50
DFT-s-OFDM 256QAM	1	1	13.79	13.68	13.76	13.72	13.72	14.50	
CP-OFDM QPSK	1	1	13.76	13.37	13.74	13.66	13.56	14.50	



	CP-OFDM 16QAM	1	1	13.71	13.61	13.59	13.56	13.54	14.50
	CP-OFDM 64QAM	1	1	13.67	13.61	13.67	13.59	13.56	14.50
	CP-OFDM 256QAM	1	1	13.60	13.70	13.64	13.63	13.60	14.50

N41-ANT3 Level 5(Only for SA)				Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				501204/2506.2	509904/2549.52	518598/2592.99	527298/2636.49	535998/2679.99	
20	DFT-s-OFDM QPSK	1	1	18.15	17.89	18.10	18.29	18.24	19.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				503202/2516.01	510900/2554.5	518598/2592.99	526302/2631.5	534000/2670	
40	DFT-s-OFDM QPSK	1	1	18.15	18.05	18.34	18.31	18.34	19.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	
50	DFT-s-OFDM QPSK	1	1	18.18	17.93	18.20	18.13	18.20	19.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	
60	DFT-s-OFDM QPSK	1	1	18.37	17.86	18.24	18.14	18.24	19.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	
80	DFT-s-OFDM QPSK	1	1	18.04	17.95	18.37	18.14	18.18	19.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	
90	DFT-s-OFDM QPSK	1	1	18.33	17.88	18.25	18.15	18.11	19.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/2546.01	513900/2569.5	518598/2592.99	523302/2616.51	528000/2640	
100	DFT-s-OFDM QPSK	1	1	18.12	17.93	18.44	18.15	18.11	19.00
		1	137	18.38	18.05	18.34	18.45	18.15	19.00
		1	271	18.16	18.08	18.40	18.16	18.14	19.00
	DFT-s-OFDM QPSK	135	0	18.27	17.84	18.28	18.15	18.05	19.00
		135	69	18.20	17.94	18.19	18.29	18.30	19.00
		135	138	18.27	17.89	18.28	18.27	18.15	19.00
	DFT-s-OFDM QPSK	270	0	18.15	18.06	18.37	18.41	18.25	19.00
	DFT-s-OFDM 16QAM	1	1	18.11	17.94	18.25	18.38	18.07	19.00
	DFT-s-OFDM 64QAM	1	1	18.37	17.88	18.40	18.30	18.35	19.00



DFT-s-OFDM 256QAM	1	1	17.58	17.61	17.61	17.63	17.62	19.00
CP-OFDM QPSK	1	1	18.27	17.97	18.32	18.42	18.13	19.00
CP-OFDM 16QAM	1	1	18.23	17.98	18.27	18.30	18.12	19.00
CP-OFDM 64QAM	1	1	18.15	18.12	18.14	18.12	18.37	19.00
CP-OFDM 256QAM	1	1	15.63	15.66	15.67	15.59	15.62	17.50

N41-ANT3 Level6&7&8((Only for SA)				Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20	DFT-s-OFDM QPSK	1	1	501204/2506.2	509904/2549.52
40	DFT-s-OFDM QPSK	1	1	503202/2516.01	510900/2554.5	518598/2592.99	526302/2631.5	534000/2670	18.50
50	DFT-s-OFDM QPSK	1	1	504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	18.50
60	DFT-s-OFDM QPSK	1	1	505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	18.50
80	DFT-s-OFDM QPSK	1	1	507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	18.50
90	DFT-s-OFDM QPSK	1	1	508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	18.50
100	DFT-s-OFDM QPSK	1	1	509202/2546.01	513900/2569.5	518598/2592.99	523302/2616.51	528000/2640	18.50
		1	137	17.51	17.27	17.57	17.82	17.50	18.50
		1	271	17.48	17.22	17.57	17.61	17.61	18.50
		135	0	17.61	17.31	17.56	17.75	17.56	18.50
		135	69	17.54	17.55	17.59	17.67	17.74	18.50



		135	138	17.69	17.43	17.70	17.68	17.48	18.50
	DFT-s-OFDM QPSK	270	0	17.73	17.43	17.69	17.48	17.48	18.50
	DFT-s-OFDM 16QAM	1	1	17.50	17.21	17.50	17.47	17.62	18.50
	DFT-s-OFDM 64QAM	1	1	17.51	17.55	17.70	17.52	17.48	18.50
	DFT-s-OFDM 256QAM	1	1	17.65	17.60	17.62	17.62	17.58	18.50
	CP-OFDM QPSK	1	1	17.60	17.21	17.78	17.47	17.38	18.50
	CP-OFDM 16QAM	1	1	17.69	17.46	17.45	17.81	17.75	18.50
	CP-OFDM 64QAM	1	1	17.59	17.31	17.55	17.66	17.65	18.50
	CP-OFDM 256QAM	1	1	15.56	15.63	15.65	15.56	15.55	17.50

N41-ANT4 Full Power&Level1&2&3&4 (Only for SA)		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20	DFT-s-OFDM QPSK	1	1	501204/ 2506.2	509904/ 2549.52
40	DFT-s-OFDM QPSK	1	1	503202/ 2516.01	510900/ /2554.5	518598/ 2592.99	526302/ 2631.5	534000/ 2670	24.00
50	DFT-s-OFDM QPSK	1	1	504204/ 2521.02	511404/ 2557.02	518598/ 2592.99	525798/ 2628.99	532998/ 2664.99	24.00
60	DFT-s-OFDM QPSK	1	1	505200/ 2526	511902/ 2559.51	518598/ 2595.99	525300/ 2626.5	531996/ 2649.99	24.00
80	DFT-s-OFDM QPSK	1	1	507204/ 2536.02	512904/ 2564.52	518598/ 2595.99	524298/ 2621.49	529998/ 2649.99	24.00
90	DFT-s-OFDM QPSK	1	1	508200/ 2541	513402/ 213402	518598/ 2592.99	523800/ 2619	528996/ 2664.98	24.00
100	DFT-s-OFDM QPSK	1	1	509202/ 2546.01	513900/ 2569.5	518598/ 2592.99	523302/ 2616.51	528000/ 2640	24.00



		1	137	23.88	23.66	23.63	23.78	23.88	24.00
		1	271	23.84	23.77	23.61	23.78	23.70	24.00
	DFT-s-OFDM QPSK	135	0	22.77	22.83	22.75	22.71	22.69	24.00
		135	69	23.67	23.78	23.70	23.64	23.68	24.00
		135	138	22.79	22.79	22.80	22.78	22.74	24.00
	DFT-s-OFDM QPSK	270	0	22.75	22.70	22.78	22.74	22.80	23.00
	DFT-s-OFDM 16QAM	1	1	22.81	22.85	22.86	22.95	22.89	23.50
	DFT-s-OFDM 64QAM	1	1	21.15	21.08	21.13	21.23	21.07	22.00
	DFT-s-OFDM 256QAM	1	1	17.59	17.56	17.63	17.58	17.67	19.50
	CP-OFDM QPSK	1	1	21.83	21.83	21.91	21.91	21.82	22.50
	CP-OFDM 16QAM	1	1	21.28	21.43	21.34	21.32	21.35	22.00
	CP-OFDM 64QAM	1	1	19.59	19.62	19.56	19.61	19.50	21.00
	CP-OFDM 256QAM	1	1	15.76	15.84	15.86	15.76	15.80	17.50

N41-ANT4 Level5(Only for SA)		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20	DFT-s-OFDM QPSK	1	1	501204/2506.2	509904/2549.52
40	DFT-s-OFDM QPSK	1	1	503202/2516.01	510900/2554.5	518598/2592.99	526302/2631.5	534000/2670	21.00
50	DFT-s-OFDM QPSK	1	1	504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	21.00
60	DFT-s-OFDM QPSK	1	1	505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	21.00
80	DFT-s-OFDM QPSK	1	1	507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	21.00
90	DFT-s-OFDM QPSK	1	1	508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	21.00
				509202/	513900/	518598/	523302/	528000/	



				2546.01	2569.5	2592.99	2616.51	2640	(dBm)
100	DFT-s-OFDM QPSK	1	1	20.77	20.93	20.92	20.90	20.62	21.00
		1	137	20.82	20.65	20.79	20.86	20.71	21.00
		1	271	20.91	20.92	20.65	20.68	20.57	21.00
	DFT-s-OFDM QPSK	135	0	20.73	20.85	20.64	20.74	20.62	21.00
		135	69	20.91	20.81	20.91	20.91	20.70	21.00
		135	138	20.67	20.85	20.78	20.58	20.84	21.00
	DFT-s-OFDM QPSK	270	0	20.84	20.83	20.78	20.73	20.50	21.00
	DFT-s-OFDM 16QAM	1	1	20.84	20.76	20.86	20.79	20.77	21.00
	DFT-s-OFDM 64QAM	1	1	20.92	20.79	20.84	20.69	20.74	21.00
	DFT-s-OFDM 256QAM	1	1	17.56	17.65	17.56	17.65	17.68	19.50
	CP-OFDM QPSK	1	1	20.84	20.74	20.72	20.92	20.66	21.00
	CP-OFDM 16QAM	1	1	20.79	20.81	20.54	20.80	20.76	21.00
	CP-OFDM 64QAM	1	1	19.62	19.65	19.62	19.68	19.44	21.00
	CP-OFDM 256QAM	1	1	15.78	15.83	15.81	15.88	15.88	17.50

N41-ANT4 Level6&7&8(Only for SA)				Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20	DFT-s-OFDM QPSK	1	1	501204/2506.2	509904/2549.52
40	DFT-s-OFDM QPSK	1	1	503202/2516.01	510900/2554.5	518598/2592.99	526302/2631.5	534000/2670	20.00
50	DFT-s-OFDM QPSK	1	1	504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	20.00
60	DFT-s-OFDM QPSK	1	1	505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	20.00
80	DFT-s-OFDM QPSK	1	1	507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	20.00
90	DFT-s-OFDM QPSK	1	1	508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	20.00



Bandwidth (MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/ 2546.01	513900/ 2569.5	518598/ 2592.99	523302/ 2616.51	528000/ 2640	
100	DFT-s-OFDM QPSK	1	1	19.72	19.89	19.75	19.71	19.50	20.00
		1	137	19.68	19.70	19.67	19.62	19.45	20.00
		1	271	19.62	19.68	19.75	19.53	19.48	20.00
	DFT-s-OFDM QPSK	135	0	19.65	19.86	19.80	19.85	19.59	20.00
		135	69	19.87	19.64	19.69	19.71	19.67	20.00
		135	138	19.88	19.53	19.81	19.53	19.53	20.00
	DFT-s-OFDM QPSK	270	0	19.55	19.57	19.76	19.70	19.65	20.00
	DFT-s-OFDM 16QAM	1	1	19.80	19.59	19.78	19.68	19.42	20.00
	DFT-s-OFDM 64QAM	1	1	19.56	19.60	19.45	19.50	19.54	20.00
	DFT-s-OFDM 256QAM	1	1	17.63	17.54	17.76	17.52	17.59	19.50
	CP-OFDM QPSK	1	1	19.71	19.77	19.47	19.52	19.50	20.00
	CP-OFDM 16QAM	1	1	19.67	19.64	19.66	19.76	19.59	20.00
	CP-OFDM 64QAM	1	1	19.56	19.53	19.57	19.42	19.53	20.00
CP-OFDM 256QAM	1	1	15.86	15.91	15.78	15.88	15.88	17.50	

9.5 WLAN Mode

Wi-Fi 2.4G ANT 6 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	15.00	14.95
	6/2437	15.00	14.96
	11/2462	15.00	14.74
802.11g (6M)	1/2412	14.50	14.36
	6/2437	14.50	14.43
	11/2462	14.50	14.10
802.11n-HT20 (MCS0)	1/2412	14.50	14.11
	6/2437	14.50	14.42
	11/2462	14.50	13.82
802.11n-HT40 (MCS0)	3/2422	14.50	14.12
	6/2437	14.50	14.24
	9/2452	14.50	13.74
802.11ac-VHT20 (MCS0)	1/2412	14.50	14.31
	6/2437	14.50	14.45
	11/2462	14.50	13.59
802.11ac-VHT40 (MCS0)	3/2422	14.50	14.21
	6/2437	14.50	13.97
	9/2452	14.50	13.66
802.11ax HE 20 (MCS0)	1/2412	14.50	14.06
	6/2437	14.50	14.54
	11/2462	14.50	13.77
802.11ax HE 40 (MCS0)	3/2422	14.50	14.01
	6/2437	14.50	14.02
	9/2452	14.50	13.62

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 6 Level 2 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	12.00	11.12
	6/2437	12.00	11.32
	11/2462	12.00	11.00
802.11g (6M)	1/2412	11.50	10.65
	6/2437	11.50	10.75



	11/2462	11.50	10.20
802.11n-HT20 (MCS0)	1/2412	11.50	10.33
	6/2437	11.50	10.75
	11/2462	11.50	10.08
802.11n-HT40 (MCS0)	3/2422	11.50	10.58
	6/2437	11.50	10.41
	9/2452	11.50	10.32
802.11ac-VHT20 (MCS0)	1/2412	11.50	10.46
	6/2437	11.50	10.69
	11/2462	11.50	10.07
802.11ac-VHT40 (MCS0)	3/2422	11.50	10.54
	6/2437	11.50	10.23
	9/2452	11.50	10.08
802.11ax HE 20 (MCS0)	1/2412	11.50	10.28
	6/2437	11.50	10.50
	11/2462	11.50	10.19
802.11ax HE 40 (MCS0)	3/2422	11.50	10.29
	6/2437	11.50	10.22
	9/2452	11.50	10.07

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 6 Level4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	10.00	9.17
	6/2437	10.00	9.21
	11/2462	10.00	8.99
802.11g (6M)	1/2412	10.00	9.14
	6/2437	10.00	9.35
	11/2462	10.00	8.74
802.11n-HT20 (MCS0)	1/2412	10.00	8.83
	6/2437	10.00	9.18
	11/2462	10.00	8.64
802.11n-HT40 (MCS0)	3/2422	10.00	9.07
	6/2437	10.00	8.94
	9/2452	10.00	8.87
802.11ac-VHT20 (MCS0)	1/2412	10.00	8.99
	6/2437	10.00	9.30
	11/2462	10.00	8.75
802.11ac-VHT40	3/2422	10.00	8.94



(MCS0)	6/2437	10.00	8.83
	9/2452	10.00	8.73
802.11ax HE 20 (MCS0)	1/2412	10.00	8.81
	6/2437	10.00	9.12
	11/2462	10.00	8.78
802.11ax HE 40 (MCS0)	3/2422	10.00	8.66
	6/2437	10.00	8.70
	9/2452	10.00	8.62

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 6 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	18.50	17.63
	6/2437	18.50	17.79
	11/2462	18.50	17.55
802.11g (6M)	1/2412	18.50	17.61
	6/2437	18.50	17.87
	11/2462	18.50	17.19
802.11n-HT20 (MCS0)	1/2412	18.50	17.42
	6/2437	18.50	17.66
	11/2462	18.50	17.14
802.11n-HT40 (MCS0)	3/2422	18.50	17.55
	6/2437	18.50	17.54
	9/2452	18.50	17.32
802.11ac-VHT20 (MCS0)	1/2412	18.50	17.50
	6/2437	18.50	17.81
	11/2462	18.50	17.35
802.11ac-VHT40 (MCS0)	3/2422	18.50	17.48
	6/2437	18.50	17.39
	9/2452	18.50	17.20
802.11ax HE 20 (MCS0)	1/2412	18.50	17.32
	6/2437	18.50	17.64
	11/2462	18.50	17.23
802.11ax HE 40 (MCS0)	3/2422	18.50	17.16
	6/2437	18.50	17.25
	9/2452	18.50	17.12

Note: Initial test configuration is 802.11b mode.



Wi-Fi 2.4G ANT 6 Level 6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	12.00	11.12
	6/2437	12.00	11.32
	11/2462	12.00	11.00
802.11g (6M)	1/2412	12.00	11.13
	6/2437	12.00	11.27
	11/2462	12.00	10.70
802.11n-HT20 (MCS0)	1/2412	12.00	10.86
	6/2437	12.00	11.26
	11/2462	12.00	10.60
802.11n-HT40 (MCS0)	3/2422	12.00	11.05
	6/2437	12.00	10.90
	9/2452	12.00	10.84
802.11ac-VHT20 (MCS0)	1/2412	12.00	10.96
	6/2437	12.00	11.21
	11/2462	12.00	10.53
802.11ac-VHT40 (MCS0)	3/2422	12.00	11.01
	6/2437	12.00	10.76
	9/2452	12.00	10.52
802.11ax HE 20 (MCS0)	1/2412	12.00	10.74
	6/2437	12.00	11.04
	11/2462	12.00	10.65
802.11ax HE 40 (MCS0)	3/2422	12.00	10.79
	6/2437	12.00	10.72
	9/2452	12.00	10.55

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 6 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	9.00	8.05
	6/2437	9.00	8.26
	11/2462	9.00	8.06
802.11g (6M)	1/2412	9.00	8.04
	6/2437	9.00	8.29
	11/2462	9.00	7.76
802.11n-HT20 (MCS0)	1/2412	9.00	7.81
	6/2437	9.00	8.28



	11/2462	9.00	7.69
802.11n-HT40 (MCS0)	3/2422	9.00	8.00
	6/2437	9.00	7.94
	9/2452	9.00	7.89
802.11ac-VHT20 (MCS0)	1/2412	9.00	7.93
	6/2437	9.00	8.30
	11/2462	9.00	7.70
802.11ac-VHT40 (MCS0)	3/2422	9.00	7.99
	6/2437	9.00	7.87
	9/2452	9.00	7.65
802.11ax HE 20 (MCS0)	1/2412	9.00	7.71
	6/2437	9.00	8.08
	11/2462	9.00	7.70
802.11ax HE 40 (MCS0)	3/2422	9.00	7.70
	6/2437	9.00	7.76
	9/2452	9.00	7.67

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 2 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	18.50	17.63
	6/2437	18.50	18.08
	11/2462	18.50	18.13
802.11g (6M)	1/2412	18.50	17.40
	6/2437	18.50	17.85
	11/2462	18.50	17.67
802.11n-HT20 (MCS0)	1/2412	18.50	17.10
	6/2437	18.50	17.62
	11/2462	18.50	17.50
802.11n-HT40 (MCS0)	3/2422	18.50	17.29
	6/2437	18.50	17.58
	9/2452	18.50	17.67
802.11ac-VHT20 (MCS0)	1/2412	18.50	17.15
	6/2437	18.50	17.53
	11/2462	18.50	17.58
802.11ac-VHT40 (MCS0)	3/2422	18.50	17.30
	6/2437	18.50	17.47
	9/2452	18.50	17.59



802.11ax HE 20 (MCS0)	1/2412	18.50	17.25
	6/2437	18.50	17.55
	11/2462	18.50	17.46
802.11ax HE 40 (MCS0)	3/2422	18.50	17.15
	6/2437	18.50	17.21
	9/2452	18.50	17.35

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 2 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	17.00	15.98
	6/2437	17.00	16.15
	11/2462	17.00	16.10
802.11g (6M)	1/2412	17.00	15.50
	6/2437	17.00	16.01
	11/2462	17.00	15.89
802.11n-HT20 (MCS0)	1/2412	17.00	15.53
	6/2437	17.00	15.78
	11/2462	17.00	15.65
802.11n-HT40 (MCS0)	3/2422	17.00	15.74
	6/2437	17.00	15.81
	9/2452	17.00	15.63
802.11ac-VHT20 (MCS0)	1/2412	17.00	15.62
	6/2437	17.00	15.70
	11/2462	17.00	15.70
802.11ac-VHT40 (MCS0)	3/2422	17.00	15.61
	6/2437	17.00	15.58
	9/2452	17.00	15.56
802.11ax HE 20 (MCS0)	1/2412	17.00	15.59
	6/2437	17.00	15.63
	11/2462	17.00	15.57
802.11ax HE 40 (MCS0)	3/2422	17.00	15.52
	6/2437	17.00	15.63
	9/2452	17.00	15.64

Note: Initial test configuration is 802.11b mode.



Wi-Fi 2.4G ANT 2 Level 2 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	13.00	12.02
	6/2437	13.00	12.02
	11/2462	13.00	11.99
802.11g (6M)	1/2412	13.00	11.61
	6/2437	13.00	11.97
	11/2462	13.00	11.81
802.11n-HT20 (MCS0)	1/2412	13.00	11.57
	6/2437	13.00	11.80
	11/2462	13.00	11.67
802.11n-HT40 (MCS0)	3/2422	13.00	11.71
	6/2437	13.00	11.50
	9/2452	13.00	11.52
802.11ac-VHT20 (MCS0)	1/2412	13.00	11.68
	6/2437	13.00	11.71
	11/2462	13.00	11.72
802.11ac-VHT40 (MCS0)	3/2422	13.00	11.61
	6/2437	13.00	11.52
	9/2452	13.00	11.53
802.11ax HE 20 (MCS0)	1/2412	13.00	11.63
	6/2437	13.00	11.52
	11/2462	13.00	11.58
802.11ax HE 40 (MCS0)	3/2422	13.00	11.54
	6/2437	13.00	11.55
	9/2452	13.00	11.53

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 2 Level4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	10.00	8.90
	6/2437	10.00	9.01
	11/2462	10.00	9.13
802.11g (6M)	1/2412	10.00	8.51
	6/2437	10.00	9.16
	11/2462	10.00	8.90
802.11n-HT20 (MCS0)	1/2412	10.00	8.61
	6/2437	10.00	8.71



	11/2462	10.00	8.65
802.11n-HT40 (MCS0)	3/2422	10.00	8.94
	6/2437	10.00	8.57
	9/2452	10.00	8.60
802.11ac-VHT20 (MCS0)	1/2412	10.00	8.64
	6/2437	10.00	8.64
	11/2462	10.00	8.76
802.11ac-VHT40 (MCS0)	3/2422	10.00	8.62
	6/2437	10.00	8.64
	9/2452	10.00	8.64
802.11ax HE 20 (MCS0)	1/2412	10.00	8.69
	6/2437	10.00	8.56
	11/2462	10.00	8.64
802.11ax HE 40 (MCS0)	3/2422	10.00	8.65
	6/2437	10.00	8.64
	9/2452	10.00	8.56

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 2 Level 6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	12.00	10.89
	6/2437	12.00	11.02
	11/2462	12.00	11.02
802.11g (6M)	1/2412	12.00	10.57
	6/2437	12.00	10.91
	11/2462	12.00	10.87
802.11n-HT20 (MCS0)	1/2412	12.00	10.58
	6/2437	12.00	10.79
	11/2462	12.00	10.67
802.11n-HT40 (MCS0)	3/2422	12.00	10.71
	6/2437	12.00	10.67
	9/2452	12.00	10.64
802.11ac-VHT20 (MCS0)	1/2412	12.00	10.64
	6/2437	12.00	10.58
	11/2462	12.00	10.81
802.11ac-VHT40 (MCS0)	3/2422	12.00	10.52
	6/2437	12.00	10.50
	9/2452	12.00	10.62
802.11ax HE 20	1/2412	12.00	10.53



(MCS0)	6/2437	12.00	10.64
	11/2462	12.00	10.57
802.11ax HE 40 (MCS0)	3/2422	12.00	10.58
	6/2437	12.00	10.53
	9/2452	12.00	10.50

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G ANT 2 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	9.00	7.98
	6/2437	9.00	7.95
	11/2462	9.00	7.94
802.11g (6M)	1/2412	9.00	7.62
	6/2437	9.00	7.92
	11/2462	9.00	7.99
802.11n-HT20 (MCS0)	1/2412	9.00	7.55
	6/2437	9.00	7.72
	11/2462	9.00	7.62
802.11n-HT40 (MCS0)	3/2422	9.00	7.71
	6/2437	9.00	7.54
	9/2452	9.00	7.51
802.11ac-VHT20 (MCS0)	1/2412	9.00	7.53
	6/2437	9.00	7.60
	11/2462	9.00	7.63
802.11ac-VHT40 (MCS0)	3/2422	9.00	7.64
	6/2437	9.00	7.64
	9/2452	9.00	7.64
802.11ax HE 20 (MCS0)	1/2412	9.00	7.63
	6/2437	9.00	7.73
	11/2462	9.00	7.53
802.11ax HE 40 (MCS0)	3/2422	9.00	7.65
	6/2437	9.00	7.74
	9/2452	9.00	7.74

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G MIMO (ANT 6+ANT 2) Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b	1/2412	17.50	16.53



(1M)	6/2437	17.50	16.69
	11/2462	17.50	16.60
802.11g (6M)	1/2412	17.30	16.86
	6/2437	17.30	17.11
	11/2462	17.30	16.72
802.11n-HT20 (MCS0)	1/2412	17.30	16.57
	6/2437	17.30	16.91
	11/2462	17.30	16.64
802.11n-HT40 (MCS0)	3/2422	17.30	16.81
	6/2437	17.30	16.66
	9/2452	17.30	16.65
802.11ac-VHT20 (MCS0)	1/2412	17.30	16.69
	6/2437	17.30	16.90
	11/2462	17.30	16.55
802.11ac-VHT40 (MCS0)	3/2422	17.30	16.58
	6/2437	17.30	16.61
	9/2452	17.30	16.63
802.11ax HE 20 (MCS0)	1/2412	17.30	16.73
	6/2437	17.30	16.85
	11/2462	17.30	16.67
802.11ax HE 40 (MCS0)	3/2422	17.30	16.89
	6/2437	17.30	16.96
	9/2452	17.30	16.80

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G MIMO (ANT 6+ANT 2) Level4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	12.50	11.58
	6/2437	12.50	11.61
	11/2462	12.50	11.55
802.11g (6M)	1/2412	12.80	11.85
	6/2437	12.80	12.27
	11/2462	12.80	11.83
802.11n-HT20 (MCS0)	1/2412	12.80	11.73
	6/2437	12.80	11.96
	11/2462	12.80	11.66
802.11n-HT40 (MCS0)	3/2422	12.80	12.02
	6/2437	12.80	11.77
	9/2452	12.80	11.75



802.11ac-VHT20 (MCS0)	1/2412	12.80	11.83
	6/2437	12.80	11.99
	11/2462	12.80	11.77
802.11ac-VHT40 (MCS0)	3/2422	12.80	11.79
	6/2437	12.80	11.75
	9/2452	12.80	11.70
802.11ax HE 20 (MCS0)	1/2412	12.80	11.76
	6/2437	12.80	11.86
	11/2462	12.80	11.72
802.11ax HE 40 (MCS0)	3/2422	12.80	11.67
	6/2437	12.80	11.68
	9/2452	12.80	11.60

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G MIMO(ANT 6+ANT 2) Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	21.00	19.59
	6/2437	21.00	19.91
	11/2462	21.00	19.62
802.11g (6M)	1/2412	21.30	20.34
	6/2437	21.30	20.53
	11/2462	21.30	20.23
802.11n-HT20 (MCS0)	1/2412	21.30	20.11
	6/2437	21.30	20.40
	11/2462	21.30	20.25
802.11n-HT40 (MCS0)	3/2422	21.30	20.36
	6/2437	21.30	20.35
	9/2452	21.30	20.10
802.11ac-VHT20 (MCS0)	1/2412	21.30	20.21
	6/2437	21.30	20.59
	11/2462	21.30	20.10
802.11ac-VHT40 (MCS0)	3/2422	21.30	20.11
	6/2437	21.30	20.32
	9/2452	21.30	20.14
802.11ax HE 20 (MCS0)	1/2412	21.30	20.17
	6/2437	21.30	20.37
	11/2462	21.30	20.21
802.11ax HE 40	3/2422	21.30	20.43



(MCS0)	6/2437	21.30	20.53
	9/2452	21.30	20.25

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G MIMO (ANT 6+ANT 2) Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	11.50	10.56
	6/2437	11.50	10.63
	11/2462	11.50	10.59
802.11g (6M)	1/2412	11.80	10.85
	6/2437	11.80	11.12
	11/2462	11.80	10.89
802.11n-HT20 (MCS0)	1/2412	11.80	10.69
	6/2437	11.80	11.02
	11/2462	11.80	10.67
802.11n-HT40 (MCS0)	3/2422	11.80	10.87
	6/2437	11.80	10.75
	9/2452	11.80	10.71
802.11ac-VHT20 (MCS0)	1/2412	11.80	10.74
	6/2437	11.80	10.97
	11/2462	11.80	10.68
802.11ac-VHT40 (MCS0)	3/2422	11.80	10.83
	6/2437	11.80	10.77
	9/2452	11.80	10.66
802.11ax HE 20 (MCS0)	1/2412	11.80	10.68
	6/2437	11.80	10.92
	11/2462	11.80	10.63
802.11ax HE 40 (MCS0)	3/2422	11.80	10.69
	6/2437	11.80	10.76
	9/2452	11.80	10.72

Note: Initial test configuration is 802.11b mode.

Wi-Fi 5G (U-NII-1) ANT 9 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	13.50	12.07
	44/5220	13.50	12.05
	48/5240	13.50	11.98
802.11n-HT20	36/5180	13.50	12.07



(MCS0)	44/5220	13.50	11.95
	48/5240	13.50	12.15
802.11n-HT40 (MCS0)	38/5190	13.50	12.09
	46/5230	13.50	11.93
802.11ac-VHT20 (MCS0)	36/5180	13.50	11.97
	44/5220	13.50	12.13
	48/5240	13.50	12.07
802.11ac-VHT40 (MCS0)	38/5190	13.50	12.15
	46/5230	13.50	12.08
802.11ac-VHT80 (MCS0)	42/5210	13.50	11.90
802.11ax-HE 20 (MCS0)	36/5180	13.50	12.05
	44/5220	13.50	11.86
	48/5240	13.50	12.02
802.11ax-HE 40 (MCS0)	38/5190	13.50	12.06
	46/5230	13.50	12.09
802.11ax-HE 80 (MCS0)	42/5210	13.50	12.13

Note. Initial test configuration is 802.11n HT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 9 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	10.50	9.35
	44/5220	10.50	9.60
	48/5240	10.50	9.49
802.11n-HT20 (MCS0)	36/5180	10.50	9.35
	44/5220	10.50	9.43
	48/5240	10.50	9.35
802.11n-HT40 (MCS0)	38/5190	10.50	9.48
	46/5230	10.50	9.34
802.11ac-VHT20 (MCS0)	36/5180	10.50	9.53
	44/5220	10.50	9.54
	48/5240	10.50	9.47
802.11ac-VHT40 (MCS0)	38/5190	10.50	9.52
	46/5230	10.50	9.61
802.11ac-VHT80 (MCS0)	42/5210	10.50	9.50
802.11ax-HE 20 (MCS0)	36/5180	10.50	9.45
	44/5220	10.50	9.49



	48/5240	10.50	9.56
802.11ax-HE 40 (MCS0)	38/5190	10.50	9.40
	46/5230	10.50	9.43
802.11ax-HE 80 (MCS0)	42/5210	10.50	9.66

Note. Initial test configuration is 802.11ax-HE 80 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 9 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	18.50	16.76
	44/5220	18.50	16.71
	48/5240	18.50	16.92
802.11n-HT20 (MCS0)	36/5180	18.50	16.57
	44/5220	18.50	16.64
	48/5240	18.50	16.86
802.11n-HT40 (MCS0)	38/5190	18.50	16.52
	46/5230	18.50	16.99
802.11ac-VHT20 (MCS0)	36/5180	18.50	16.58
	44/5220	18.50	16.51
	48/5240	18.50	16.67
802.11ac-VHT40 (MCS0)	38/5190	18.50	16.76
	46/5230	18.50	17.22
802.11ac-VHT80 (MCS0)	42/5210	18.50	16.68
802.11ax-HE 20 (MCS0)	36/5180	18.50	16.51
	44/5220	18.50	16.87
	48/5240	18.50	16.92
802.11ax-HE 40 (MCS0)	38/5190	18.50	16.62
	46/5230	18.50	16.96
802.11ax-HE 80 (MCS0)	42/5210	18.50	16.58

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 9 Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	14.00	12.64
	44/5220	14.00	12.61



	48/5240	14.00	12.53
802.11n-HT20 (MCS0)	36/5180	14.00	12.53
	44/5220	14.00	12.45
	48/5240	14.00	12.60
802.11n-HT40 (MCS0)	38/5190	14.00	12.64
	46/5230	14.00	12.51
802.11ac-VHT20 (MCS0)	36/5180	14.00	12.43
	44/5220	14.00	12.60
	48/5240	14.00	12.64
802.11ac-VHT40 (MCS0)	38/5190	14.00	12.64
	46/5230	14.00	12.65
802.11ac-VHT80 (MCS0)	42/5210	14.00	12.46
802.11ax-HE 20 (MCS0)	36/5180	14.00	12.51
	44/5220	14.00	12.46
	48/5240	14.00	12.58
802.11ax-HE 40 (MCS0)	38/5190	14.00	12.57
	46/5230	14.00	12.62
802.11ax-HE 80 (MCS0)	42/5210	14.00	12.57

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 9 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	11.00	9.81
	44/5220	11.00	9.98
	48/5240	11.00	9.87
802.11n-HT20 (MCS0)	36/5180	11.00	9.85
	44/5220	11.00	9.80
	48/5240	11.00	9.81
802.11n-HT40 (MCS0)	38/5190	11.00	9.90
	46/5230	11.00	9.80
802.11ac-VHT20 (MCS0)	36/5180	11.00	9.96
	44/5220	11.00	10.00
	48/5240	11.00	9.85
802.11ac-VHT40 (MCS0)	38/5190	11.00	9.97
	46/5230	11.00	10.01
802.11ac-VHT80 (MCS0)	42/5210	11.00	9.89



802.11ax-HE 20 (MCS0)	36/5180	11.00	9.81
	44/5220	11.00	9.91
	48/5240	11.00	9.96
802.11ax-HE 40 (MCS0)	38/5190	11.00	9.84
	46/5230	11.00	9.85
802.11ax-HE 80 (MCS0)	42/5210	11.00	10.01

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 9 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	13.50	12.08
	60/5300	13.50	12.11
	64/5320	13.50	11.91
802.11n-HT20 (MCS0)	52/5260	13.50	11.94
	60/5300	13.50	11.95
	64/5320	13.50	12.05
802.11n-HT40 (MCS0)	54/5270	13.50	12.07
	62/5310	13.50	12.00
802.11ac-VHT20 (MCS0)	52/5260	13.50	12.01
	60/5300	13.50	12.02
	64/5320	13.50	12.08
802.11ac-VHT40 (MCS0)	54/5270	13.50	12.18
	62/5310	13.50	12.07
802.11ac-VHT80 (MCS0)	58/5290	13.50	12.07
802.11ax-HE 20 (MCS0)	52/5260	13.50	11.94
	60/5300	13.50	11.85
	64/5320	13.50	11.94
802.11ax-HE 40 (MCS0)	54/5270	13.50	12.04
	62/5310	13.50	12.15
802.11ax-HE 80 (MCS0)	58/5290	13.50	12.11

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 9 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a	52/5260	10.50	9.58



(6M)	60/5300	10.50	9.39
	64/5320	10.50	9.53
802.11n-HT20 (MCS0)	52/5260	10.50	9.48
	60/5300	10.50	9.51
	64/5320	10.50	9.40
802.11n-HT40 (MCS0)	54/5270	10.50	9.41
	62/5310	10.50	9.43
802.11ac-VHT20 (MCS0)	52/5260	10.50	9.56
	60/5300	10.50	9.59
	64/5320	10.50	9.47
802.11ac-VHT40 (MCS0)	54/5270	10.50	9.53
	62/5310	10.50	9.61
802.11ac-VHT80 (MCS0)	58/5290	10.50	9.51
802.11ax-HE 20 (MCS0)	52/5260	10.50	9.52
	60/5300	10.50	9.57
	64/5320	10.50	9.61
802.11ax-HE 40 (MCS0)	54/5270	10.50	9.36
	62/5310	10.50	9.49
802.11ax-HE 80 (MCS0)	58/5290	10.50	9.42

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 9 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	18.50	16.79
	60/5300	18.50	16.58
	64/5320	18.50	16.87
802.11n-HT20 (MCS0)	52/5260	18.50	16.66
	60/5300	18.50	16.70
	64/5320	18.50	16.74
802.11n-HT40 (MCS0)	54/5270	18.50	17.05
	62/5310	18.50	17.04
802.11ac-VHT20 (MCS0)	52/5260	18.50	16.57
	60/5300	18.50	16.54
	64/5320	18.50	16.75
802.11ac-VHT40 (MCS0)	54/5270	18.50	17.04
	62/5310	18.50	17.18



802.11ac-VHT80 (MCS0)	58/5290	18.50	16.79
802.11ax-HE 20 (MCS0)	52/5260	18.50	16.87
	60/5300	18.50	16.74
	64/5320	18.50	16.89
802.11ax-HE 40 (MCS0)	54/5270	18.50	16.89
	62/5310	18.50	17.03
802.11ax-HE 80 (MCS0)	58/5290	18.50	16.77

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 9 Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	14.00	12.59
	60/5300	14.00	12.62
	64/5320	14.00	12.43
802.11n-HT20 (MCS0)	52/5260	14.00	12.42
	60/5300	14.00	12.45
	64/5320	14.00	12.58
802.11n-HT40 (MCS0)	54/5270	14.00	12.57
	62/5310	14.00	12.46
802.11ac-VHT20 (MCS0)	52/5260	14.00	12.58
	60/5300	14.00	12.60
	64/5320	14.00	12.61
802.11ac-VHT40 (MCS0)	54/5270	14.00	12.62
	62/5310	14.00	12.60
802.11ac-VHT80 (MCS0)	58/5290	14.00	12.64
802.11ax-HE 20 (MCS0)	52/5260	14.00	12.42
	60/5300	14.00	12.46
	64/5320	14.00	12.51
802.11ax-HE 40 (MCS0)	54/5270	14.00	12.49
	62/5310	14.00	12.60
802.11ax-HE 80 (MCS0)	58/5290	14.00	12.61

Note. Initial test configuration is 802.11ac VHT80 mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-2A) ANT 9 Level 8	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	52/5260	11.00	10.01
	60/5300	11.00	9.85
	64/5320	11.00	9.90
802.11n-HT20 (MCS0)	52/5260	11.00	9.92
	60/5300	11.00	9.92
	64/5320	11.00	9.82
802.11n-HT40 (MCS0)	54/5270	11.00	9.84
	62/5310	11.00	9.82
802.11ac-VHT20 (MCS0)	52/5260	11.00	10.02
	60/5300	11.00	9.98
	64/5320	11.00	9.87
802.11ac-VHT40 (MCS0)	54/5270	11.00	9.92
	62/5310	11.00	10.04
802.11ac-VHT80 (MCS0)	58/5290	11.00	9.91
802.11ax-HE 20 (MCS0)	52/5260	11.00	9.93
	60/5300	11.00	9.95
	64/5320	11.00	9.98
802.11ax-HE 40 (MCS0)	54/5270	11.00	9.84
	62/5310	11.00	9.87
802.11ax-HE 80 (MCS0)	58/5290	11.00	9.81

Note. Initial test configuration is 802.11ac VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) ANT 9 Level 1	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	100/5500	13.50	12.14
	116/5580	13.50	12.00
	140/5700	13.50	12.13
802.11n-HT20 (MCS0)	100/5500	13.50	11.88
	116/5580	13.50	12.12
	140/5700	13.50	12.16
802.11n-HT40 (MCS0)	102/5510	13.50	12.05
	110/5550	13.50	12.11
	134/5670	13.50	11.94
802.11ac-VHT20	100/5500	13.50	12.13



(MCS0)	116/5580	13.50	12.16
	140/5700	13.50	12.00
802.11ac-VHT40 (MCS0)	102/5510	13.50	12.00
	110/5550	13.50	11.92
	134/5670	13.50	12.04
802.11ac-VHT80 (MCS0)	106/5530	13.50	11.92
	122/5610	13.50	12.01
802.11ax-HE 20 (MCS0)	100/5500	13.50	12.08
	116/5580	13.50	12.15
	140/5700	13.50	12.12
802.11ax-HE 40 (MCS0)	102/5510	13.50	11.97
	110/5550	13.50	12.07
	134/5670	13.50	12.21
802.11ax-HE 80 (MCS0)	106/5530	13.50	12.04
	122/5610	13.50	11.98

Note. Initial test configuration is 802.11ax-HE 40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) ANT 9 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	10.50	9.64
	116/5580	10.50	9.48
	140/5700	10.50	9.42
802.11n-HT20 (MCS0)	100/5500	10.50	9.50
	116/5580	10.50	9.42
	140/5700	10.50	9.41
802.11n-HT40 (MCS0)	102/5510	10.50	9.43
	110/5550	10.50	9.55
	134/5670	10.50	9.53
802.11ac-VHT20 (MCS0)	100/5500	10.50	9.58
	116/5580	10.50	9.50
	140/5700	10.50	9.62
802.11ac-VHT40 (MCS0)	102/5510	10.50	9.49
	110/5550	10.50	9.52
	134/5670	10.50	9.52
802.11ac-VHT80 (MCS0)	106/5530	10.50	9.37
	122/5610	10.50	9.49
802.11ax-HE 20 (MCS0)	100/5500	10.50	9.52
	116/5580	10.50	9.59



	140/5700	10.50	9.43
802.11ax-HE 40 (MCS0)	102/5510	10.50	9.47
	110/5550	10.50	9.40
	134/5670	10.50	9.40
802.11ax-HE 80 (MCS0)	106/5530	10.50	9.51
	122/5610	10.50	9.63

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

Wi-Fi 5G (U-NII-2C) ANT 9 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	18.50	16.83
	116/5580	18.50	17.00
	140/5700	18.50	17.38
802.11n-HT20 (MCS0)	100/5500	18.50	16.56
	116/5580	18.50	17.00
	140/5700	18.50	17.11
802.11n-HT40 (MCS0)	102/5510	18.50	17.13
	110/5550	18.50	17.08
	134/5670	18.50	16.96
802.11ac-VHT20 (MCS0)	100/5500	18.50	16.63
	116/5580	18.50	17.01
	140/5700	18.50	17.12
802.11ac-VHT40 (MCS0)	102/5510	18.50	17.10
	110/5550	18.50	17.25
	134/5670	18.50	17.45
802.11ac-VHT80 (MCS0)	106/5530	18.50	16.90
	122/5610	18.50	16.85
802.11ax-HE 20 (MCS0)	100/5500	18.50	16.58
	116/5580	18.50	16.90
	140/5700	18.50	17.10
802.11ax-HE 40 (MCS0)	102/5510	18.50	16.83
	110/5550	18.50	17.16
	134/5670	18.50	17.30
802.11ax-HE 80 (MCS0)	106/5530	18.50	16.79
	122/5610	18.50	16.85

Note. Initial test configuration is 802.11ac-VHT40 mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-2C) ANT 9 Level 7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	100/5500	14.00	12.59
	116/5580	14.00	12.55
	140/5700	14.00	12.59
802.11n-HT20 (MCS0)	100/5500	14.00	12.42
	116/5580	14.00	12.56
	140/5700	14.00	12.64
802.11n-HT40 (MCS0)	102/5510	14.00	12.62
	110/5550	14.00	12.58
	134/5670	14.00	12.45
802.11ac-VHT20 (MCS0)	100/5500	14.00	12.57
	116/5580	14.00	12.65
	140/5700	14.00	12.46
802.11ac-VHT40 (MCS0)	102/5510	14.00	12.52
	110/5550	14.00	12.47
	134/5670	14.00	12.51
802.11ac-VHT80 (MCS0)	106/5530	14.00	12.48
	122/5610	14.00	12.56
802.11ax-HE 20 (MCS0)	100/5500	14.00	12.52
	116/5580	14.00	12.60
	140/5700	14.00	12.57
802.11ax-HE 40 (MCS0)	102/5510	14.00	12.45
	110/5550	14.00	12.59
	134/5670	14.00	12.64
802.11ax-HE 80 (MCS0)	106/5530	14.00	12.50
	122/5610	14.00	12.51

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) ANT 9 Level 8	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	100/5500	11.00	10.02
	116/5580	11.00	9.95
	140/5700	11.00	9.83
802.11n-HT20 (MCS0)	100/5500	11.00	9.96
	116/5580	11.00	9.86
	140/5700	11.00	9.90



802.11n-HT40 (MCS0)	102/5510	11.00	9.93
	110/5550	11.00	10.03
	134/5670	11.00	9.91
802.11ac-VHT20 (MCS0)	100/5500	11.00	9.98
	116/5580	11.00	9.89
	140/5700	11.00	10.04
802.11ac-VHT40 (MCS0)	102/5510	11.00	9.92
	110/5550	11.00	9.89
	134/5670	11.00	10.01
802.11ac-VHT80 (MCS0)	106/5530	11.00	9.86
	122/5610	11.00	9.92
802.11ax-HE 20 (MCS0)	100/5500	11.00	9.91
	116/5580	11.00	10.02
	140/5700	11.00	9.90
802.11ax-HE 40 (MCS0)	102/5510	11.00	9.86
	110/5550	11.00	9.89
	134/5670	11.00	9.87
802.11ax-HE 80 (MCS0)	106/5530	11.00	9.92
	122/5610	11.00	10.00

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3) ANT 9 Full power & Level 1&5&7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	13.50	12.23
	157/5785	13.50	12.31
	165/5825	13.50	12.45
802.11n-HT20 (MCS0)	149/5745	13.50	12.00
	157/5785	13.50	12.20
	165/5825	13.50	12.28
802.11n-HT40 (MCS0)	151/5755	13.50	12.21
	159/5795	13.50	12.17
802.11ac-VHT20 (MCS0)	149/5745	13.50	12.01
	157/5785	13.50	12.17
	165/5825	13.50	12.25
802.11ac-VHT40 (MCS0)	151/5755	13.50	12.20
	159/5795	13.50	12.08
802.11ac-VHT80 (MCS0)	155/5775	13.50	11.90



802.11ax-HE 20 (MCS0)	149/5745	13.50	12.06
	157/5785	13.50	12.26
	165/5825	13.50	12.33
802.11ax-HE 40 (MCS0)	151/5755	13.50	12.24
	159/5795	13.50	12.14
802.11ax-HE 80 (MCS0)	155/5775	13.50	11.98

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

Wi-Fi 5G (U-NII-3) ANT 9 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	10.50	9.45
	157/5785	10.50	9.50
	165/5825	10.50	9.64
802.11n-HT20 (MCS0)	149/5745	10.50	9.61
	157/5785	10.50	9.36
	165/5825	10.50	9.34
802.11n-HT40 (MCS0)	151/5755	10.50	9.49
	159/5795	10.50	9.50
802.11ac-VHT20 (MCS0)	149/5745	10.50	9.66
	157/5785	10.50	9.63
	165/5825	10.50	9.58
802.11ac-VHT40 (MCS0)	151/5755	10.50	9.61
	159/5795	10.50	9.54
802.11ac-VHT80 (MCS0)	155/5775	10.50	9.58
802.11ax-HE 20 (MCS0)	149/5745	10.50	9.65
	157/5785	10.50	9.67
	165/5825	10.50	9.44
802.11ax-HE 40 (MCS0)	151/5755	10.50	9.50
	159/5795	10.50	9.50
802.11ax-HE 80 (MCS0)	155/5775	10.50	9.38

Note. Initial test configuration is 802.11ax-HE 20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3) ANT 9 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a	149/5745	11.00	9.89



(6M)	157/5785	11.00	9.93
	165/5825	11.00	10.02
802.11n-HT20 (MCS0)	149/5745	11.00	9.97
	157/5785	11.00	9.86
	165/5825	11.00	9.84
802.11n-HT40 (MCS0)	151/5755	11.00	9.96
	159/5795	11.00	9.93
802.11ac-VHT20 (MCS0)	149/5745	11.00	10.04
	157/5785	11.00	10.05
	165/5825	11.00	10.03
802.11ac-VHT40 (MCS0)	151/5755	11.00	10.02
	159/5795	11.00	10.02
802.11ac-VHT80 (MCS0)	155/5775	11.00	10.00
802.11ax-HE 20 (MCS0)	149/5745	11.00	10.02
	157/5785	11.00	10.03
	165/5825	11.00	9.83
802.11ax-HE 40 (MCS0)	151/5755	11.00	9.96
	159/5795	11.00	9.85
802.11ax-HE 80 (MCS0)	155/5775	11.00	9.87

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 2 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	14.50	13.27
	44/5220	14.50	13.41
	48/5240	14.50	13.27
802.11n-HT20 (MCS0)	36/5180	14.50	13.43
	44/5220	14.50	13.26
	48/5240	14.50	13.36
802.11n-HT40 (MCS0)	38/5190	14.50	13.34
	46/5230	14.50	13.27
802.11ac-VHT20 (MCS0)	36/5180	14.50	13.34
	44/5220	14.50	13.36
	48/5240	14.50	13.38
802.11ac-VHT40 (MCS0)	38/5190	14.50	13.26
	46/5230	14.50	13.31
802.11ac-VHT80	42/5210	14.50	13.32



(MCS0)			
802.11ax-HE 20 (MCS0)	36/5180	14.50	13.26
	44/5220	14.50	13.22
	48/5240	14.50	13.42
802.11ax-HE 40 (MCS0)	38/5190	14.50	13.17
	46/5230	14.50	13.21
802.11ax-HE 80 (MCS0)	42/5210	14.50	13.33
Note. Initial test configuration is 802.11n-HT20 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-1) ANT 2 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	11.50	10.93
	44/5220	11.50	10.89
	48/5240	11.50	10.99
802.11n-HT20 (MCS0)	36/5180	11.50	10.81
	44/5220	11.50	10.88
	48/5240	11.50	10.82
802.11n-HT40 (MCS0)	38/5190	11.50	10.97
	46/5230	11.50	10.86
802.11ac-VHT20 (MCS0)	36/5180	11.50	10.95
	44/5220	11.50	10.87
	48/5240	11.50	10.94
802.11ac-VHT40 (MCS0)	38/5190	11.50	10.82
	46/5230	11.50	10.81
802.11ac-VHT80 (MCS0)	42/5210	11.50	10.88
802.11ax-HE 20 (MCS0)	36/5180	11.50	10.84
	44/5220	11.50	10.98
	48/5240	11.50	10.92
802.11ax-HE 40 (MCS0)	38/5190	11.50	10.92
	46/5230	11.50	10.76
802.11ax-HE 80 (MCS0)	42/5210	11.50	10.91
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-1) ANT 2 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	18.50	17.16
	44/5220	18.50	17.17
	48/5240	18.50	16.93
802.11n-HT20 (MCS0)	36/5180	18.50	17.59
	44/5220	18.50	17.14
	48/5240	18.50	16.95
802.11n-HT40 (MCS0)	38/5190	18.50	17.40
	46/5230	18.50	17.29
802.11ac-VHT20 (MCS0)	36/5180	18.50	17.49
	44/5220	18.50	17.04
	48/5240	18.50	16.92
802.11ac-VHT40 (MCS0)	38/5190	18.50	17.51
	46/5230	18.50	17.25
802.11ac-VHT80 (MCS0)	42/5210	18.50	17.04
802.11ax-HE 20 (MCS0)	36/5180	18.50	17.50
	44/5220	18.50	17.31
	48/5240	18.50	16.94
802.11ax-HE 40 (MCS0)	38/5190	18.50	17.30
	46/5230	18.50	17.30
802.11ax-HE 80 (MCS0)	42/5210	18.50	16.97

Note. Initial test configuration is 802.11n-HT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 2 Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	14.00	12.83
	44/5220	14.00	12.83
	48/5240	14.00	12.78
802.11n-HT20 (MCS0)	36/5180	14.00	12.90
	44/5220	14.00	12.79
	48/5240	14.00	12.86
802.11n-HT40 (MCS0)	38/5190	14.00	12.85
	46/5230	14.00	12.83
802.11ac-VHT20	36/5180	14.00	12.83



(MCS0)	44/5220	14.00	12.88
	48/5240	14.00	12.85
802.11ac-VHT40 (MCS0)	38/5190	14.00	12.77
	46/5230	14.00	12.75
802.11ac-VHT80 (MCS0)	42/5210	14.00	12.74
802.11ax-HE 20 (MCS0)	36/5180	14.00	12.76
	44/5220	14.00	12.71
	48/5240	14.00	12.85
802.11ax-HE 40 (MCS0)	38/5190	14.00	12.68
	46/5230	14.00	12.69
802.11ax-HE 80 (MCS0)	42/5210	14.00	12.77

Note. Initial test configuration is 802.11n-HT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) ANT 2 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	11.00	10.30
	44/5220	11.00	10.35
	48/5240	11.00	10.37
802.11n-HT20 (MCS0)	36/5180	11.00	10.22
	44/5220	11.00	10.25
	48/5240	11.00	10.25
802.11n-HT40 (MCS0)	38/5190	11.00	10.39
	46/5230	11.00	10.31
802.11ac-VHT20 (MCS0)	36/5180	11.00	10.40
	44/5220	11.00	10.32
	48/5240	11.00	10.31
802.11ac-VHT40 (MCS0)	38/5190	11.00	10.28
	46/5230	11.00	10.28
802.11ac-VHT80 (MCS0)	42/5210	11.00	10.25
802.11ax-HE 20 (MCS0)	36/5180	11.00	10.21
	44/5220	11.00	10.34
	48/5240	11.00	10.36
802.11ax-HE 40 (MCS0)	38/5190	11.00	10.37
	46/5230	11.00	10.14
802.11ax-HE 80 (MCS0)	42/5210	11.00	10.32



Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 2 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	14.50	13.41
	60/5300	14.50	13.30
	64/5320	14.50	13.34
802.11n-HT20 (MCS0)	52/5260	14.50	13.24
	60/5300	14.50	13.26
	64/5320	14.50	13.31
802.11n-HT40 (MCS0)	54/5270	14.50	13.39
	62/5310	14.50	13.25
802.11ac-VHT20 (MCS0)	52/5260	14.50	13.29
	60/5300	14.50	13.39
	64/5320	14.50	13.38
802.11ac-VHT40 (MCS0)	54/5270	14.50	13.34
	62/5310	14.50	13.24
802.11ac-VHT80 (MCS0)	58/5290	14.50	13.17
802.11ax-HE 20 (MCS0)	52/5260	14.50	13.25
	60/5300	14.50	13.22
	64/5320	14.50	13.40
802.11ax-HE 40 (MCS0)	54/5270	14.50	13.14
	62/5310	14.50	13.24
802.11ax-HE 80 (MCS0)	58/5290	14.50	13.40

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

Wi-Fi 5G (U-NII-2A) ANT 2 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	11.50	10.97
	60/5300	11.50	10.79
	64/5320	11.50	10.90
802.11n-HT20 (MCS0)	52/5260	11.50	10.83
	60/5300	11.50	10.80
	64/5320	11.50	10.84
802.11n-HT40 (MCS0)	54/5270	11.50	10.82
	62/5310	11.50	10.82



802.11ac-VHT20 (MCS0)	52/5260	11.50	10.94
	60/5300	11.50	10.83
	64/5320	11.50	10.88
802.11ac-VHT40 (MCS0)	54/5270	11.50	10.86
	62/5310	11.50	10.97
802.11ac-VHT80 (MCS0)	58/5290	11.50	10.82
802.11ax-HE 20 (MCS0)	52/5260	11.50	10.97
	60/5300	11.50	10.95
	64/5320	11.50	10.91
802.11ax-HE 40 (MCS0)	54/5270	11.50	11.00
	62/5310	11.50	10.75
802.11ax-HE 80 (MCS0)	58/5290	11.50	10.99

Note. Initial test configuration is 802.11ax-HE 40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 2 Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	18.50	17.10
	60/5300	18.50	17.23
	64/5320	18.50	16.93
802.11n-HT20 (MCS0)	52/5260	18.50	17.19
	60/5300	18.50	17.22
	64/5320	18.50	16.94
802.11n-HT40 (MCS0)	54/5270	18.50	17.34
	62/5310	18.50	17.30
802.11ac-VHT20 (MCS0)	52/5260	18.50	17.14
	60/5300	18.50	17.23
	64/5320	18.50	16.92
802.11ac-VHT40 (MCS0)	54/5270	18.50	17.28
	62/5310	18.50	17.34
802.11ac-VHT80 (MCS0)	58/5290	18.50	16.97
802.11ax-HE 20 (MCS0)	52/5260	18.50	17.22
	60/5300	18.50	17.31
	64/5320	18.50	16.63
802.11ax-HE 40 (MCS0)	54/5270	18.50	17.42
	62/5310	18.50	17.26
802.11ax-HE 80	58/5290	18.50	16.87



(MCS0)

Note. Initial test configuration is 802.11ax-HE40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 2 Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	14.00	12.86
	60/5300	14.00	12.79
	64/5320	14.00	12.76
802.11n-HT20 (MCS0)	52/5260	14.00	12.74
	60/5300	14.00	12.73
	64/5320	14.00	12.84
802.11n-HT40 (MCS0)	54/5270	14.00	12.90
	62/5310	14.00	12.81
802.11ac-VHT20 (MCS0)	52/5260	14.00	12.84
	60/5300	14.00	12.81
	64/5320	14.00	12.82
802.11ac-VHT40 (MCS0)	54/5270	14.00	12.86
	62/5310	14.00	12.78
802.11ac-VHT80 (MCS0)	58/5290	14.00	12.67
802.11ax-HE 20 (MCS0)	52/5260	14.00	12.70
	60/5300	14.00	12.68
	64/5320	14.00	12.88
802.11ax-HE 40 (MCS0)	54/5270	14.00	12.66
	62/5310	14.00	12.72
802.11ax-HE 80 (MCS0)	58/5290	14.00	12.87

Note. Initial test configuration is 802.11n-HT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) ANT 2 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	11.00	10.38
	60/5300	11.00	10.24
	64/5320	11.00	10.39
802.11n-HT20 (MCS0)	52/5260	11.00	10.25
	60/5300	11.00	10.21
	64/5320	11.00	10.27
802.11n-HT40	54/5270	11.00	10.19



(MCS0)	62/5310	11.00	10.30
802.11ac-VHT20 (MCS0)	52/5260	11.00	10.35
	60/5300	11.00	10.33
	64/5320	11.00	10.32
802.11ac-VHT40 (MCS0)	54/5270	11.00	10.28
	62/5310	11.00	10.34
802.11ac-VHT80 (MCS0)	58/5290	11.00	10.17
802.11ax-HE 20 (MCS0)	52/5260	11.00	10.36
	60/5300	11.00	10.32
	64/5320	11.00	10.37
802.11ax-HE 40 (MCS0)	54/5270	11.00	10.39
	62/5310	11.00	10.17
802.11ax-HE 80 (MCS0)	58/5290	11.00	10.37

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

Wi-Fi 5G (U-NII-2C) ANT 2 Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	14.50	13.21
	116/5580	14.50	13.17
	140/5700	14.50	13.37
802.11n-HT20 (MCS0)	100/5500	14.50	13.36
	116/5580	14.50	13.26
	140/5700	14.50	13.29
802.11n-HT40 (MCS0)	102/5510	14.50	13.37
	110/5550	14.50	13.29
	134/5670	14.50	13.22
802.11ac-VHT20 (MCS0)	100/5500	14.50	13.34
	116/5580	14.50	13.27
	140/5700	14.50	13.12
802.11ac-VHT40 (MCS0)	102/5510	14.50	13.32
	110/5550	14.50	13.29
	134/5670	14.50	13.26
802.11ac-VHT80 (MCS0)	106/5530	14.50	13.23
	122/5610	14.50	13.16
802.11ax-HE 20 (MCS0)	100/5500	14.50	13.35
	116/5580	14.50	13.33
	140/5700	14.50	13.24



802.11ax-HE 40 (MCS0)	102/5510	14.50	13.19
	110/5550	14.50	13.23
	134/5670	14.50	13.38
802.11ax-HE 80 (MCS0)	106/5530	14.50	13.43
	122/5610	14.50	13.27

Note. Initial test configuration is 802.11n-HT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) ANT 2 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.50	10.75
	116/5580	11.50	10.80
	140/5700	11.50	10.76
802.11n-HT20 (MCS0)	100/5500	11.50	10.84
	116/5580	11.50	10.83
	140/5700	11.50	10.83
802.11n-HT40 (MCS0)	102/5510	11.50	10.97
	110/5550	11.50	10.92
	134/5670	11.50	10.83
802.11ac-VHT20 (MCS0)	100/5500	11.50	10.89
	116/5580	11.50	10.79
	140/5700	11.50	11.00
802.11ac-VHT40 (MCS0)	102/5510	11.50	10.98
	110/5550	11.50	10.70
	134/5670	11.50	10.90
802.11ac-VHT80 (MCS0)	106/5530	11.50	10.95
	122/5610	11.50	10.74
802.11ax-HE 20 (MCS0)	100/5500	11.50	10.83
	116/5580	11.50	10.95
	140/5700	11.50	10.78
802.11ax-HE 40 (MCS0)	102/5510	11.50	10.84
	110/5550	11.50	10.97
	134/5670	11.50	10.73
802.11ax-HE 80 (MCS0)	106/5530	11.50	10.98
	122/5610	11.50	10.85

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) ANT 2 Full power & Level 5	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.



Mode			
802.11a (6M)	100/5500	18.50	16.58
	116/5580	18.50	16.63
	140/5700	18.50	16.58
802.11n-HT20 (MCS0)	100/5500	18.50	16.73
	116/5580	18.50	16.63
	140/5700	18.50	16.50
802.11n-HT40 (MCS0)	102/5510	18.50	17.34
	110/5550	18.50	17.19
	134/5670	18.50	17.10
802.11ac-VHT20 (MCS0)	100/5500	18.50	16.71
	116/5580	18.50	16.58
	140/5700	18.50	16.56
802.11ac-VHT40 (MCS0)	102/5510	18.50	17.02
	110/5550	18.50	16.86
	134/5670	18.50	16.76
802.11ac-VHT80 (MCS0)	106/5530	18.50	16.58
	122/5610	18.50	16.52
802.11ax-HE 20 (MCS0)	100/5500	18.50	16.74
	116/5580	18.50	16.62
	140/5700	18.50	16.57
802.11ax-HE 40 (MCS0)	102/5510	18.50	16.97
	110/5550	18.50	16.84
	134/5670	18.50	16.70
802.11ax-HE 80 (MCS0)	106/5530	18.50	16.56
	122/5610	18.50	16.57

Note. Initial test configuration is 802.11n-HT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) ANT 2 Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	14.00	12.70
	116/5580	14.00	12.73
	140/5700	14.00	12.88
802.11n-HT20 (MCS0)	100/5500	14.00	12.79
	116/5580	14.00	12.69
	140/5700	14.00	12.82
802.11n-HT40 (MCS0)	102/5510	14.00	12.86
	110/5550	14.00	12.81



	134/5670	14.00	12.71
802.11ac-VHT20 (MCS0)	100/5500	14.00	12.78
	116/5580	14.00	12.71
	140/5700	14.00	12.69
802.11ac-VHT40 (MCS0)	102/5510	14.00	12.78
	110/5550	14.00	12.78
	134/5670	14.00	12.78
802.11ac-VHT80 (MCS0)	106/5530	14.00	12.69
	122/5610	14.00	12.68
802.11ax-HE 20 (MCS0)	100/5500	14.00	12.88
	116/5580	14.00	12.79
	140/5700	14.00	12.67
802.11ax-HE 40 (MCS0)	102/5510	14.00	12.66
	110/5550	14.00	12.79
	134/5670	14.00	12.81
802.11ax-HE 80 (MCS0)	106/5530	14.00	12.88
	122/5610	14.00	12.80

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

Wi-Fi 5G (U-NII-2C) ANT 2 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.00	10.18
	116/5580	11.00	10.23
	140/5700	11.00	10.23
802.11n-HT20 (MCS0)	100/5500	11.00	10.30
	116/5580	11.00	10.19
	140/5700	11.00	10.32
802.11n-HT40 (MCS0)	102/5510	11.00	10.36
	110/5550	11.00	10.36
	134/5670	11.00	10.21
802.11ac-VHT20 (MCS0)	100/5500	11.00	10.32
	116/5580	11.00	10.25
	140/5700	11.00	10.36
802.11ac-VHT40 (MCS0)	102/5510	11.00	10.34
	110/5550	11.00	10.16
	134/5670	11.00	10.38
802.11ac-VHT80 (MCS0)	106/5530	11.00	10.40
	122/5610	11.00	10.23



802.11ax-HE 20 (MCS0)	100/5500	11.00	10.33
	116/5580	11.00	10.32
	140/5700	11.00	10.19
802.11ax-HE 40 (MCS0)	102/5510	11.00	10.34
	110/5550	11.00	10.40
	134/5670	11.00	10.16
802.11ax-HE 80 (MCS0)	106/5530	11.00	10.40
	122/5610	11.00	10.24
Note. Initial test configuration is 802.11ac-VHT80 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-3) ANT 2 Full power & Level 1&5&7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	13.50	11.92
	157/5785	13.50	12.13
	165/5825	13.50	12.41
802.11n-HT20 (MCS0)	149/5745	13.50	11.67
	157/5785	13.50	12.14
	165/5825	13.50	12.27
802.11n-HT40 (MCS0)	151/5755	13.50	12.25
	159/5795	13.50	12.33
802.11ac-VHT20 (MCS0)	149/5745	13.50	11.62
	157/5785	13.50	12.08
	165/5825	13.50	12.23
802.11ac-VHT40 (MCS0)	151/5755	13.50	12.20
	159/5795	13.50	13.17
802.11ac-VHT80 (MCS0)	155/5775	13.50	12.38
802.11ax-HE 20 (MCS0)	149/5745	13.50	11.67
	157/5785	13.50	12.15
	165/5825	13.50	12.28
802.11ax-HE 40 (MCS0)	151/5755	13.50	12.28
	159/5795	13.50	13.22
802.11ax-HE 80 (MCS0)	155/5775	13.50	12.38
Note. Initial test configuration is 802.11ax-HE40 mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-3) ANT 2 Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	10.50	9.77
	157/5785	10.50	10.04
	165/5825	10.50	9.75
802.11n-HT20 (MCS0)	149/5745	10.50	9.81
	157/5785	10.50	9.95
	165/5825	10.50	9.94
802.11n-HT40 (MCS0)	151/5755	10.50	9.68
	159/5795	10.50	9.97
802.11ac-VHT20 (MCS0)	149/5745	10.50	9.99
	157/5785	10.50	9.66
	165/5825	10.50	10.00
802.11ac-VHT40 (MCS0)	151/5755	10.50	9.77
	159/5795	10.50	9.93
802.11ac-VHT80 (MCS0)	155/5775	10.50	9.81
802.11ax-HE 20 (MCS0)	149/5745	10.50	9.84
	157/5785	10.50	9.87
	165/5825	10.50	9.86
802.11ax-HE 40 (MCS0)	151/5755	10.50	9.95
	159/5795	10.50	9.68
802.11ax-HE 80 (MCS0)	155/5775	10.50	9.76

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

Wi-Fi 5G (U-NII-3) ANT 2 Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	11.00	10.20
	157/5785	11.00	10.40
	165/5825	11.00	10.23
802.11n-HT20 (MCS0)	149/5745	11.00	10.29
	157/5785	11.00	10.38
	165/5825	11.00	10.39
802.11n-HT40 (MCS0)	151/5755	11.00	10.17
	159/5795	11.00	10.34
802.11ac-VHT20 (MCS0)	149/5745	11.00	10.35
	157/5785	11.00	10.16



	165/5825	11.00	10.39
802.11ac-VHT40 (MCS0)	151/5755	11.00	10.16
	159/5795	11.00	10.33
802.11ac-VHT80 (MCS0)	155/5775	11.00	10.21
802.11ax-HE 20 (MCS0)	149/5745	11.00	10.28
	157/5785	11.00	10.25
	165/5825	11.00	10.22
802.11ax-HE 40 (MCS0)	151/5755	11.00	10.39
	159/5795	11.00	10.17
802.11ax-HE 80 (MCS0)	155/5775	11.00	10.19

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

Wi-Fi 5G (U-NII-1) MIMO(ANT 9+ANT 2) Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	16.50	15.31
	44/5220	16.50	15.18
	48/5240	16.50	15.11
802.11n-HT20 (MCS0)	36/5180	16.50	15.16
	44/5220	16.50	15.05
	48/5240	16.50	15.22
802.11n-HT40 (MCS0)	38/5190	16.50	15.29
	46/5230	16.50	15.11
802.11ac-VHT20 (MCS0)	36/5180	16.50	15.09
	44/5220	16.50	15.25
	48/5240	16.50	15.22
802.11ac-VHT40 (MCS0)	38/5190	16.50	15.22
	46/5230	16.50	15.28
802.11ac-VHT80 (MCS0)	42/5210	16.50	15.13
802.11ax-HE 20 (MCS0)	36/5180	16.50	15.18
	44/5220	16.50	15.08
	48/5240	16.50	15.26
802.11ax-HE 40 (MCS0)	38/5190	16.50	15.15
	46/5230	16.50	15.21
802.11ax-HE 80 (MCS0)	42/5210	16.50	15.22

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

Wi-Fi 5G (U-NII-1) MIMO(ANT 9+ANT 2) Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	13.50	12.72
	44/5220	13.50	12.72
	48/5240	13.50	12.74
802.11n-HT20 (MCS0)	36/5180	13.50	12.56
	44/5220	13.50	12.63
	48/5240	13.50	12.63
802.11n-HT40 (MCS0)	38/5190	13.50	12.74
	46/5230	13.50	12.71
802.11ac-VHT20 (MCS0)	36/5180	13.50	12.80
	44/5220	13.50	12.78
	48/5240	13.50	12.71
802.11ac-VHT40 (MCS0)	38/5190	13.50	12.70
	46/5230	13.50	12.70
802.11ac-VHT80 (MCS0)	42/5210	13.50	12.63
802.11ax-HE 20 (MCS0)	36/5180	13.50	12.53
	44/5220	13.50	12.74
	48/5240	13.50	12.79
802.11ax-HE 40 (MCS0)	38/5190	13.50	12.76
	46/5230	13.50	12.51
802.11ax-HE 80 (MCS0)	42/5210	13.50	12.78

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) MIMO(ANT 9+ANT 2) Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	21.50	19.97
	44/5220	21.50	19.96
	48/5240	21.50	19.94
802.11n-HT20 (MCS0)	36/5180	21.50	20.12
	44/5220	21.50	19.91
	48/5240	21.50	19.92
802.11n-HT40 (MCS0)	38/5190	21.50	19.99
	46/5230	21.50	20.15



802.11ac-VHT20 (MCS0)	36/5180	21.50	20.07
	44/5220	21.50	19.79
	48/5240	21.50	19.81
802.11ac-VHT40 (MCS0)	38/5190	21.50	20.16
	46/5230	21.50	20.25
802.11ac-VHT80 (MCS0)	42/5210	21.50	19.87
802.11ax-HE 20 (MCS0)	36/5180	21.50	20.04
	44/5220	21.50	20.11
	48/5240	21.50	19.94
802.11ax-HE 40 (MCS0)	38/5190	21.50	19.98
	46/5230	21.50	20.14
802.11ax-HE 80 (MCS0)	42/5210	21.50	19.79

Note. Initial test configuration is 802.11ac-VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1) MIMO(ANT 9+ANT 2) Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	17.00	15.75
	44/5220	17.00	15.73
	48/5240	17.00	15.67
802.11n-HT20 (MCS0)	36/5180	17.00	15.73
	44/5220	17.00	15.63
	48/5240	17.00	15.74
802.11n-HT40 (MCS0)	38/5190	17.00	15.76
	46/5230	17.00	15.68
802.11ac-VHT20 (MCS0)	36/5180	17.00	15.64
	44/5220	17.00	15.75
	48/5240	17.00	15.76
802.11ac-VHT40 (MCS0)	38/5190	17.00	15.72
	46/5230	17.00	15.71
802.11ac-VHT80 (MCS0)	42/5210	17.00	15.61
802.11ax-HE 20 (MCS0)	36/5180	17.00	15.65
	44/5220	17.00	15.60
	48/5240	17.00	15.73
802.11ax-HE 40 (MCS0)	38/5190	17.00	15.64
	46/5230	17.00	15.67
802.11ax-HE 80	42/5210	17.00	15.68



(MCS0)			
Note. Initial test configuration is 802.11n-HT40 mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-1) MIMO(ANT 9+ANT 2) Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	14.00	13.07
	44/5220	14.00	13.18
	48/5240	14.00	13.14
802.11n-HT20 (MCS0)	36/5180	14.00	13.05
	44/5220	14.00	13.04
	48/5240	14.00	13.05
802.11n-HT40 (MCS0)	38/5190	14.00	13.16
	46/5230	14.00	13.07
802.11ac-VHT20 (MCS0)	36/5180	14.00	13.20
	44/5220	14.00	13.17
	48/5240	14.00	13.10
802.11ac-VHT40 (MCS0)	38/5190	14.00	13.14
	46/5230	14.00	13.16
802.11ac-VHT80 (MCS0)	42/5210	14.00	13.08
802.11ax-HE 20 (MCS0)	36/5180	14.00	13.02
	44/5220	14.00	13.14
	48/5240	14.00	13.17
802.11ax-HE 40 (MCS0)	38/5190	14.00	13.12
	46/5230	14.00	13.01
802.11ax-HE 80 (MCS0)	42/5210	14.00	13.18

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) MIMO(ANT 9+ANT 2) Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	16.50	15.32
	60/5300	16.50	15.23
	64/5320	16.50	15.11
802.11n-HT20 (MCS0)	52/5260	16.50	15.05
	60/5300	16.50	15.17
	64/5320	16.50	15.16



802.11n-HT40 (MCS0)	54/5270	16.50	15.28
	62/5310	16.50	15.10
802.11ac-VHT20 (MCS0)	52/5260	16.50	15.24
	60/5300	16.50	15.18
	64/5320	16.50	15.25
802.11ac-VHT40 (MCS0)	54/5270	16.50	15.24
	62/5310	16.50	15.25
802.11ac-VHT80 (MCS0)	58/5290	16.50	15.22
802.11ax-HE 20 (MCS0)	52/5260	16.50	15.12
	60/5300	16.50	15.15
	64/5320	16.50	15.22
802.11ax-HE 40 (MCS0)	54/5270	16.50	15.03
	62/5310	16.50	15.13
802.11ax-HE 80 (MCS0)	58/5290	16.50	15.27

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

Wi-Fi 5G (U-NII-2A) MIMO(ANT 9+ANT 2) Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	13.50	12.77
	60/5300	13.50	12.65
	64/5320	13.50	12.74
802.11n-HT20 (MCS0)	52/5260	13.50	12.63
	60/5300	13.50	12.60
	64/5320	13.50	12.66
802.11n-HT40 (MCS0)	54/5270	13.50	12.58
	62/5310	13.50	12.64
802.11ac-VHT20 (MCS0)	52/5260	13.50	12.78
	60/5300	13.50	12.73
	64/5320	13.50	12.61
802.11ac-VHT40 (MCS0)	54/5270	13.50	12.64
	62/5310	13.50	12.81
802.11ac-VHT80 (MCS0)	58/5290	13.50	12.58
802.11ax-HE 20 (MCS0)	52/5260	13.50	12.78
	60/5300	13.50	12.66
	64/5320	13.50	12.82
802.11ax-HE 40	54/5270	13.50	12.73



(MCS0)	62/5310	13.50	12.63
802.11ax-HE 80 (MCS0)	58/5290	13.50	12.68

Note. Initial test configuration is 802.11ax-HE 20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) MIMO(ANT 9+ANT 2) Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	21.50	19.96
	60/5300	21.50	19.93
	64/5320	21.50	19.91
802.11n-HT20 (MCS0)	52/5260	21.50	19.94
	60/5300	21.50	19.98
	64/5320	21.50	19.85
802.11n-HT40 (MCS0)	54/5270	21.50	20.21
	62/5310	21.50	20.18
802.11ac-VHT20 (MCS0)	52/5260	21.50	19.87
	60/5300	21.50	19.91
	64/5320	21.50	19.85
802.11ac-VHT40 (MCS0)	54/5270	21.50	20.17
	62/5310	21.50	20.27
802.11ac-VHT80 (MCS0)	58/5290	21.50	19.89
802.11ax-HE 20 (MCS0)	52/5260	21.50	20.06
	60/5300	21.50	20.04
	64/5320	21.50	19.77
802.11ax-HE 40 (MCS0)	54/5270	21.50	20.17
	62/5310	21.50	20.16
802.11ax-HE 80 (MCS0)	58/5290	21.50	19.83

Note. Initial test configuration is 802.11ac-VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) MIMO(ANT 9+ANT 2) Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	17.00	15.74
	60/5300	17.00	15.72
	64/5320	17.00	15.61



802.11n-HT20 (MCS0)	52/5260	17.00	15.59
	60/5300	17.00	15.60
	64/5320	17.00	15.72
802.11n-HT40 (MCS0)	54/5270	17.00	15.75
	62/5310	17.00	15.65
802.11ac-VHT20 (MCS0)	52/5260	17.00	15.72
	60/5300	17.00	15.72
	64/5320	17.00	15.73
802.11ac-VHT40 (MCS0)	54/5270	17.00	15.75
	62/5310	17.00	15.70
802.11ac-VHT80 (MCS0)	58/5290	17.00	15.67
802.11ax-HE 20 (MCS0)	52/5260	17.00	15.57
	60/5300	17.00	15.58
	64/5320	17.00	15.71
802.11ax-HE 40 (MCS0)	54/5270	17.00	15.59
	62/5310	17.00	15.67
802.11ax-HE 80 (MCS0)	58/5290	17.00	15.75

Note. Initial test configuration is 802.11ax-HE80 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A) MIMO(ANT 9+ANT 2) Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	14.00	13.21
	60/5300	14.00	13.06
	64/5320	14.00	13.16
802.11n-HT20 (MCS0)	52/5260	14.00	13.10
	60/5300	14.00	13.08
	64/5320	14.00	13.06
802.11n-HT40 (MCS0)	54/5270	14.00	13.03
	62/5310	14.00	13.08
802.11ac-VHT20 (MCS0)	52/5260	14.00	13.20
	60/5300	14.00	13.17
	64/5320	14.00	13.11
802.11ac-VHT40 (MCS0)	54/5270	14.00	13.11
	62/5310	14.00	13.20
802.11ac-VHT80 (MCS0)	58/5290	14.00	13.05
802.11ax-HE 20	52/5260	14.00	13.16



(MCS0)	60/5300	14.00	13.15
	64/5320	14.00	13.19
802.11ax-HE 40 (MCS0)	54/5270	14.00	13.13
	62/5310	14.00	13.03
802.11ax-HE 80 (MCS0)	58/5290	14.00	13.11
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2C) MIMO(ANT 9+ANT 2) Level 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	16.50	15.23
	116/5580	16.50	15.22
	140/5700	16.50	15.20
802.11n-HT20 (MCS0)	100/5500	16.50	15.05
	116/5580	16.50	15.10
	140/5700	16.50	15.30
802.11n-HT40 (MCS0)	102/5510	16.50	15.27
	110/5550	16.50	15.20
	134/5670	16.50	15.08
802.11ac-VHT20 (MCS0)	100/5500	16.50	15.12
	116/5580	16.50	15.15
	140/5700	16.50	15.10
802.11ac-VHT40 (MCS0)	102/5510	16.50	15.10
	110/5550	16.50	15.15
	134/5670	16.50	15.23
802.11ac-VHT80 (MCS0)	106/5530	16.50	15.08
	122/5610	16.50	15.11
802.11ax-HE 20 (MCS0)	100/5500	16.50	15.28
	116/5580	16.50	15.28
	140/5700	16.50	15.06
802.11ax-HE 40 (MCS0)	102/5510	16.50	15.05
	110/5550	16.50	15.26
	134/5670	16.50	15.19
802.11ax-HE 80 (MCS0)	106/5530	16.50	15.15
	122/5610	16.50	15.25
Note. Initial test configuration is 802.11n-HT20 mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-2C) MIMO(ANT 9+ANT 2) Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	13.50	12.70
	116/5580	13.50	12.61
	140/5700	13.50	12.66
802.11n-HT20 (MCS0)	100/5500	13.50	12.70
	116/5580	13.50	12.66
	140/5700	13.50	12.64
802.11n-HT40 (MCS0)	102/5510	13.50	12.72
	110/5550	13.50	12.71
	134/5670	13.50	12.58
802.11ac-VHT20 (MCS0)	100/5500	13.50	12.72
	116/5580	13.50	12.63
	140/5700	13.50	12.73
802.11ac-VHT40 (MCS0)	102/5510	13.50	12.78
	110/5550	13.50	12.60
	134/5670	13.50	12.85
802.11ac-VHT80 (MCS0)	106/5530	13.50	12.70
	122/5610	13.50	12.59
802.11ax-HE 20 (MCS0)	100/5500	13.50	12.79
	116/5580	13.50	12.70
	140/5700	13.50	12.70
802.11ax-HE 40 (MCS0)	102/5510	13.50	12.70
	110/5550	13.50	12.80
	134/5670	13.50	12.62
802.11ax-HE 80 (MCS0)	106/5530	13.50	12.70
	122/5610	13.50	12.72

Note. Initial test configuration is 802.11ac-VHT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) MIMO(ANT 9+ANT 2) Full power & Level 5 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	21.50	19.72
	116/5580	21.50	19.83
	140/5700	21.50	20.01
802.11n-HT20 (MCS0)	100/5500	21.50	19.66
	116/5580	21.50	19.83



	140/5700	21.50	19.83
802.11n-HT40 (MCS0)	102/5510	21.50	20.25
	110/5550	21.50	20.15
	134/5670	21.50	20.04
802.11ac-VHT20 (MCS0)	100/5500	21.50	19.68
	116/5580	21.50	19.81
	140/5700	21.50	19.86
802.11ac-VHT40 (MCS0)	102/5510	21.50	20.07
	110/5550	21.50	20.07
	134/5670	21.50	20.13
802.11ac-VHT80 (MCS0)	106/5530	21.50	19.75
	122/5610	21.50	19.70
802.11ax-HE 20 (MCS0)	100/5500	21.50	19.67
	116/5580	21.50	19.77
	140/5700	21.50	19.85
802.11ax-HE 40 (MCS0)	102/5510	21.50	19.91
	110/5550	21.50	20.01
	134/5670	21.50	20.02
802.11ax-HE 80 (MCS0)	106/5530	21.50	19.69
	122/5610	21.50	19.72

Note. Initial test configuration is 802.11n-HT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) MIMO(ANT 9+ANT 2) Level 7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	17.00	15.66
	116/5580	17.00	15.65
	140/5700	17.00	15.75
802.11n-HT20 (MCS0)	100/5500	17.00	15.62
	116/5580	17.00	15.64
	140/5700	17.00	15.74
802.11n-HT40 (MCS0)	102/5510	17.00	15.75
	110/5550	17.00	15.71
	134/5670	17.00	15.59
802.11ac-VHT20 (MCS0)	100/5500	17.00	15.69
	116/5580	17.00	15.69
	140/5700	17.00	15.59
802.11ac-VHT40 (MCS0)	102/5510	17.00	15.66
	110/5550	17.00	15.64



	134/5670	17.00	15.66
802.11ac-VHT80 (MCS0)	106/5530	17.00	15.60
	122/5610	17.00	15.63
802.11ax-HE 20 (MCS0)	100/5500	17.00	15.71
	116/5580	17.00	15.71
	140/5700	17.00	15.63
802.11ax-HE 40 (MCS0)	102/5510	17.00	15.57
	110/5550	17.00	15.70
	134/5670	17.00	15.74
802.11ax-HE 80 (MCS0)	106/5530	17.00	15.70
	122/5610	17.00	15.67

Note. Initial test configuration is 802.11n-HT40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) MIMO(ANT 9+ANT 2) Level 8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	14.00	13.11
	116/5580	14.00	13.10
	140/5700	14.00	13.04
802.11n-HT20 (MCS0)	100/5500	14.00	13.14
	116/5580	14.00	13.04
	140/5700	14.00	13.13
802.11n-HT40 (MCS0)	102/5510	14.00	13.16
	110/5550	14.00	13.21
	134/5670	14.00	13.07
802.11ac-VHT20 (MCS0)	100/5500	14.00	13.16
	116/5580	14.00	13.08
	140/5700	14.00	13.21
802.11ac-VHT40 (MCS0)	102/5510	14.00	13.15
	110/5550	14.00	13.04
	134/5670	14.00	13.21
802.11ac-VHT80 (MCS0)	106/5530	14.00	13.15
	122/5610	14.00	13.09
802.11ax-HE 20 (MCS0)	100/5500	14.00	13.14
	116/5580	14.00	13.18
	140/5700	14.00	13.06
802.11ax-HE 40 (MCS0)	102/5510	14.00	13.12
	110/5550	14.00	13.16
	134/5670	14.00	13.03



802.11ax-HE 80 (MCS0)	106/5530	14.00	13.18
	122/5610	14.00	13.13

Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3) MIMO(ANT 9+ANT 2) Full power & Level 1&5&7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	16.50	15.09
	157/5785	16.50	15.23
	165/5825	16.50	15.44
802.11n-HT20 (MCS0)	149/5745	16.50	14.85
	157/5785	16.50	15.18
	165/5825	16.50	15.29
802.11n-HT40 (MCS0)	151/5755	16.50	15.24
	159/5795	16.50	15.26
802.11ac-VHT20 (MCS0)	149/5745	16.50	14.83
	157/5785	16.50	15.14
	165/5825	16.50	15.25
802.11ac-VHT40 (MCS0)	151/5755	16.50	15.21
	159/5795	16.50	15.67
802.11ac-VHT80 (MCS0)	155/5775	16.50	15.16
802.11ax-HE 20 (MCS0)	149/5745	16.50	14.88
	157/5785	16.50	15.22
	165/5825	16.50	15.32
802.11ax-HE 40 (MCS0)	151/5755	16.50	15.27
	159/5795	16.50	15.72
802.11ax-HE 80 (MCS0)	155/5775	16.50	15.19

Note. Initial test configuration is 802.11ax-HE40 mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3) MIMO(ANT 9+ANT 2) Level 3&4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	13.50	12.62
	157/5785	13.50	12.79
	165/5825	13.50	12.71
802.11n-HT20	149/5745	13.50	12.72



(MCS0)	157/5785	13.50	12.68
	165/5825	13.50	12.66
802.11n-HT40 (MCS0)	151/5755	13.50	12.60
	159/5795	13.50	12.75
802.11ac-VHT20 (MCS0)	149/5745	13.50	12.84
	157/5785	13.50	12.66
	165/5825	13.50	12.81
802.11ac-VHT40 (MCS0)	151/5755	13.50	12.70
	159/5795	13.50	12.75
802.11ac-VHT80 (MCS0)	155/5775	13.50	12.71
802.11ax-HE 20 (MCS0)	149/5745	13.50	12.76
	157/5785	13.50	12.78
	165/5825	13.50	12.67
802.11ax-HE 40 (MCS0)	151/5755	13.50	12.74
	159/5795	13.50	12.60
802.11ax-HE 80 (MCS0)	155/5775	13.50	12.58

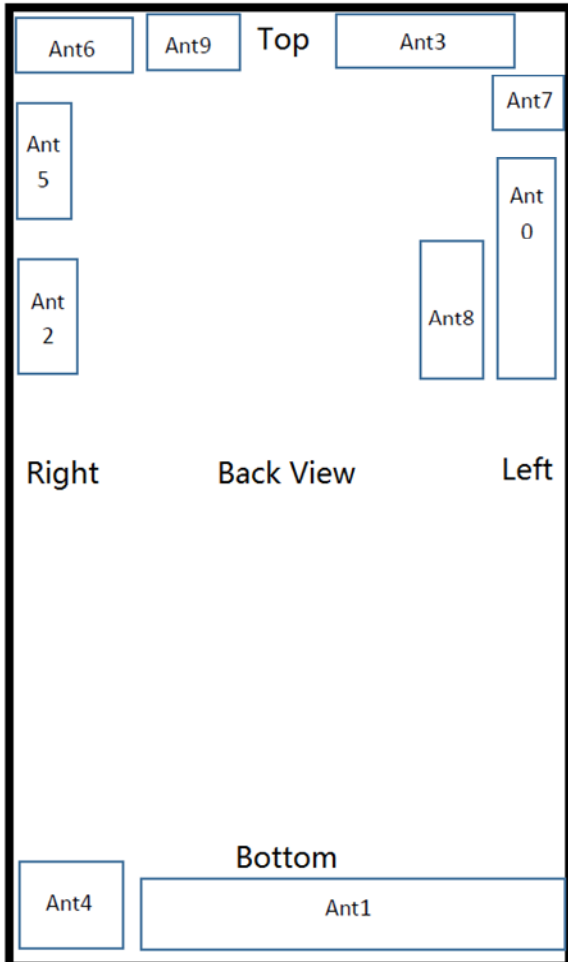
Note. Initial test configuration is 802.11ac-VHT20 mode, since the highest maximum output power.

9.6 Bluetooth Mode

BT	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	12.52	12.61	12.58	14.00
$\pi/4$ DQPSK	10.51	10.48	10.39	12.00
8DPSK	10.54	10.51	10.47	12.00
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	4.00	5.80	3.00	7.00
GFSK(2M)	3.80	5.70	3.10	7.00

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations



Ant 0	GSM 850/WCDMA 5/ LTE 5/12/17/ 26/NR n5
Ant 1	GSM 850/WCDMA 5/LTE 5/12/17/26/NR n5
Ant 2	Wi-Fi 2.4G/5G
Ant 3	GSM 1900 /WCDMA 2/4/LTE 2/4/7/38/41/66/ NR n7/41
Ant 4	GSM 1900/ WCDMA 2/4/ LTE 2/4/7/38/41/66/ NR n7/41
Ant 5	LTE 7
Ant 6	Wi-Fi 2.4G/BT
Ant 9	Wi-Fi 5G



Overall (Length x Width): 161 mm x 73 mm

Overall Diagonal: 172 mm/Display Diagonal: 162mm

Distance of the Antenna to the EUT surface/edge

Antenna	Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Ant 0	<25mm	<25mm	>25mm	<25mm	>25mm	>25mm
Ant 1	<25mm	<25mm	>25mm	<25mm	>25mm	<25mm
Ant 2	<25mm	<25mm	<25mm	>25mm	>25mm	>25mm
Ant 3	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
Ant 4	<25mm	<25mm	<25mm	>25mm	>25mm	<25mm
Ant 5	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm
Ant 6	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm
Ant 9	<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
Ant 0	Yes	Yes	N/A	Yes	N/A	N/A
Ant 1	Yes	Yes	N/A	Yes	N/A	Yes
Ant 2	Yes	Yes	Yes	N/A	N/A	N/A
Ant 3	Yes	Yes	N/A	Yes	Yes	N/A
Ant 4	Yes	Yes	Yes	N/A	N/A	Yes
Ant 5	Yes	Yes	Yes	N/A	Yes	N/A
Ant 6	Yes	Yes	Yes	N/A	Yes	N/A
Ant 9	Yes	Yes	Yes	N/A	Yes	N/A

Note: 1. Per KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, 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 172mm. Per KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0\text{ cm}$ or an overall diagonal dimension $> 16.0\text{ cm}$, product specific 10-g SAR must be tested as a phablet to determine SAR compliance. For Phablet, Since hotspot mode 1-g reported SAR $< 1.2\text{ W/kg}$, product specific 10-g SAR is no required.

3. Per FCC KDB 447498 D01, for each exposure position, testing of other required 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:

- $\leq 0.8\text{ W/kg}$ or 2.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\leq 100\text{MHz}$
- $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

4. When the original highest measured SAR is $\geq 0.80\text{ W/kg}$, 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 $\leq 1.2\text{ W/kg}$, no additional SAR evaluations using a headset cable were required.

10.2 Standalone SAR test exclusion considerations

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for product specific 10-g SAR

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Bluetooth	Distance (mm)	MAXPower (dBm)	Frequency (MHz)	Ratio	Evaluation
Head	5	14.00	2480	7.91	Yes
Body-worn	15	14.00	2480	2.64	No
Hotspot	10	14.00	2480	3.96	Yes
Product Specific 10-g SAR	5	14.00	2480	7.91	Yes

10.3 Measured SAR Results

Table 10: GSM 850 (ANT1)

Test Position	Power Reduction	Time slot	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Full Power	GSM	1:8.3	190/836.6	33.80	33.15	0.123	0.186	1.16	0.143	/
Left Tilt	Full Power	GSM	1:8.3	190/836.6	33.80	33.15	0.079	0.140	1.16	0.092	/
Right Cheek	Full Power	GSM	1:8.3	190/836.6	33.80	33.15	0.157	-0.024	1.16	0.182	23
Right Tilt	Full Power	GSM	1:8.3	190/836.6	33.80	33.15	0.080	0.130	1.16	0.093	/
Body-worn SAR (Distance 15mm)											
Back Side	Full Power	GSM	1:8.3	190/836.6	33.80	33.15	0.242	0.040	1.16	0.281	24
Front Side	Full Power	GSM	1:8.3	190/836.6	33.80	33.15	0.197	0.012	1.16	0.229	/
Hotspot SAR(Distance 10mm)											
Back Side	Full Power	4Txslots	1:2.07	128/824.2	29.50	27.83	0.559	0.010	1.47	0.821	/
	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.578	-0.020	1.50	0.869	25
	Full Power	4Txslots	1:2.07	251/848.8	29.50	27.94	0.569	0.035	1.43	0.815	/
Front Side	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.513	-0.090	1.50	0.771	/
Left Edge	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.137	0.028	1.50	0.206	/
Right Edge	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.152	0.033	1.50	0.228	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.324	-0.018	1.50	0.487	/
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.</p>											



Table 11: GSM 1900(ANT4)

Test Position	Power Reduction	Time slot	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.091	0.151	1.12	0.101	26
Left Tilt	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.042	0.030	1.12	0.047	/
Right Cheek	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.087	0.095	1.12	0.097	/
Right Tilt	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.032	0.100	1.12	0.036	/
Body-worn SAR (Distance 15mm)											
Back Side	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.234	0.020	1.12	0.262	27
Front Side	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.160	-0.020	1.12	0.179	/
Hotspot SARSAR (Distance 10mm)											
Back Side	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.452	0.013	1.16	0.526	/
Front Side	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.350	-0.060	1.16	0.407	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.228	0.010	1.16	0.265	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	3Txslots	1:2.77	512/1850.2	27.00	26.31	0.432	0.025	1.17	0.506	/
	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.795	0.160	1.16	0.925	28
	Full Power	3Txslots	1:2.77	810/1909.8	27.00	26.26	0.686	0.037	1.19	0.813	/
<p>Note: 1.The value with blue color is the maximum SAR Value of each test band.</p> <p>2.When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.</p>											



Table 12: UMTS Band II (ANT4)

Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Full Power	RMC 12.2K	1:1	9400/1880	24.20	23.01	0.121	0.188	1.32	0.159	/
Left Tilt	Full Power	RMC 12.2K	1:1	9400/1880	24.20	23.01	0.077	0.080	1.32	0.101	/
Right Cheek	Full Power	RMC 12.2K	1:1	9400/1880	24.20	23.01	0.171	0.071	1.32	0.225	29
Right Tilt	Full Power	RMC 12.2K	1:1	9400/1880	24.20	23.01	0.056	0.029	1.32	0.073	/
Body-worn SAR (Distance 15mm)											
Back Side	Level5	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.234	0.050	1.32	0.308	30
Front Side	Level5	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.171	0.032	1.32	0.225	/
Hotspot SAR(Distance 10mm)											
Back Side	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.575	0.012	1.32	0.758	/
Front Side	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.482	0.039	1.32	0.635	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.268	-0.040	1.32	0.353	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Level 6&7&8	RMC 12.2K	1:1	9262/1852.4	19.70	18.47	0.698	0.120	1.33	0.927	/
	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.741	0.080	1.32	0.977	31
	Level 6&7&8	RMC 12.2K	1:1	9538/1907.6	19.70	18.38	0.726	0.150	1.36	0.984	/

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

2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.



Table 13: UMTS Band IV (ANT4)

Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.079	0.180	1.31	0.104	/
Left Tilt	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.034	0.140	1.31	0.045	/
Right Cheek	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.092	0.062	1.31	0.121	32
Right Tilt	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.049	-0.030	1.31	0.064	/
Body-worn SAR (Distance 15mm)											
Back Side	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.327	0.040	1.31	0.429	33
Front Side	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.271	0.021	1.31	0.356	/
Hotspot SAR(Distance 10mm)											
Back Side	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.561	-0.030	1.31	0.736	34
Front Side	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.447	0.038	1.31	0.587	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.376	0.040	1.31	0.493	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	RMC 12.2K	1:1	1413/1732.6	24.20	23.02	0.553	0.058	1.31	0.726	/

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

2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.



Table 14: UMTS Band V (ANT1)

Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.108	0.083	1.36	0.147	35
Left Tilt	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.061	0.101	1.36	0.083	/
Right Cheek	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.082	-0.022	1.36	0.112	/
Right Tilt	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.048	-0.010	1.36	0.065	/
Body-worn SAR (Distance 15mm)											
Back Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.282	-0.032	1.36	0.385	36
Front Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.264	0.090	1.36	0.360	/
Hotspot SAR(Distance 10mm)											
Back Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.533	0.080	1.36	0.727	37
Front Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.451	-0.023	1.36	0.615	/
Left Edge	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.105	0.021	1.36	0.143	/
Right Edge	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.106	0.047	1.36	0.145	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.350	-0.062	1.36	0.478	/

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

2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.



Table 15: LTE Band 2 (20MHz, ANT4)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	18700/1860	24.50	23.06	0.119	-0.010	1.39	0.166	/
Left Tilt	Full Power	1:1	1	0	18700/1860	24.50	23.06	0.073	0.080	1.39	0.102	/
Right Cheek	Full Power	1:1	1	0	18700/1860	24.50	23.06	0.134	0.070	1.39	0.187	38
Right Tilt	Full Power	1:1	1	0	18700/1860	24.50	23.06	0.067	0.170	1.39	0.094	/
Left Cheek	Full Power	1:1	50%	25	18700/1860	23.50	22.15	0.100	0.032	1.36	0.136	/
Left Tilt	Full Power	1:1	50%	25	18700/1860	23.50	22.15	0.062	0.180	1.36	0.084	/
Right Cheek	Full Power	1:1	50%	25	18700/1860	23.50	22.15	0.111	0.055	1.36	0.151	/
Right Tilt	Full Power	1:1	50%	25	18700/1860	23.50	22.15	0.049	0.023	1.36	0.067	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level 5	1:1	1	0	18700/1860	20.00	18.80	0.292	0.010	1.32	0.385	/
Front Side	Level 5	1:1	1	0	18700/1860	20.00	18.80	0.182	0.062	1.32	0.240	/
Back Side	Level 5	1:1	50%	25	18700/1860	20.00	18.71	0.334	0.030	1.35	0.450	39
Front Side	Level 5	1:1	50%	25	18700/1860	20.00	18.71	0.199	-0.018	1.35	0.268	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1	1	50	18700/1860	19.50	18.32	0.433	0.026	1.31	0.568	/
Front Side	Level 6&7&8	1:1	1	50	18700/1860	19.50	18.32	0.339	0.010	1.31	0.445	/
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
Right Edge	Level 6&7&8	1:1	1	50	18700/1860	19.50	18.32	0.225	-0.090	1.31	0.295	/
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
Bottom Edge	Level 6&7&8	1:1	1	50	18700/1860	19.50	18.32	0.599	0.052	1.31	0.786	/
Back Side	Level 6&7&8	1:1	50%	25	18700/1860	19.50	18.21	0.545	0.037	1.35	0.733	/
Front Side	Level 6&7&8	1:1	50%	25	18700/1860	19.50	18.21	0.345	0.018	1.35	0.464	/
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
Right Edge	Level 6&7&8	1:1	50%	25	18700/1860	19.50	18.21	0.246	0.040	1.35	0.331	/
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
Bottom Edge	Level 6&7&8	1:1	50%	25	18700/1860	19.50	18.21	0.742	0.010	1.35	0.999	/
	Level 6&7&8	1:1	50%	25	18900/1880	19.50	18.04	0.730	0.010	1.40	1.022	/
	Level 6&7&8	1:1	50%	25	19100/1900	19.50	18.13	0.777	0.020	1.37	1.065	40
Bottom Edge	Level 6&7&8	1:1	100%	0	18700/1860	19.50	17.92	0.677	0.190	1.44	0.974	/
	Level 6&7&8	1:1	100%	0	18900/1880	19.50	17.81	0.628	0.018	1.48	0.927	/
	Level 6&7&8	1:1	100%	0	19100/1900	19.50	17.78	0.613	-0.060	1.49	0.911	/

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

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



MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	50	18700/1860	20.00	19.50	0.568	1.12	0.638	No
Front Side	Level 6&7&8	1	50	18700/1860	20.00	19.50	0.445	1.12	0.499	No
Right Edge	Level 6&7&8	1	50	18700/1860	20.00	19.50	0.295	1.12	0.331	No
Bottom Edge	Level 6&7&8	1	50	18700/1860	20.00	19.50	0.786	1.12	0.882	No
Back Side	Level 6&7&8	50%	25	18700/1860	20.00	19.50	0.733	1.12	0.823	No
Front Side	Level 6&7&8	50%	25	18700/1860	20.00	19.50	0.464	1.12	0.521	No
Right Edge	Level 6&7&8	50%	25	18700/1860	20.00	19.50	0.331	1.12	0.371	No
Bottom Edge	Level 6&7&8	50%	25	18700/1860	20.00	19.50	0.999	1.12	1.120	No
	Level 6&7&8	50%	25	18900/1880	20.00	19.50	1.022	1.12	1.146	No
	Level 6&7&8	50%	25	19100/1900	20.00	19.50	1.065	1.12	1.195	No
Bottom Edge	Level 6&7&8	100%	0	18700/1860	20.00	19.50	0.974	1.12	1.093	No
	Level 6&7&8	100%	0	18900/1880	20.00	19.50	0.927	1.12	1.040	No
	Level 6&7&8	100%	0	19100/1900	20.00	19.50	0.911	1.12	1.022	No
Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.										



Table 16: LTE Band 5 (10MHz, ANT1)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	20450/829	24.80	23.32	0.132	0.058	1.41	0.186	/
Left Tilt	Full Power	1:1	1	0	20450/829	24.80	23.32	0.077	-0.030	1.41	0.108	/
Right Cheek	Full Power	1:1	1	0	20450/829	24.80	23.32	0.151	-0.096	1.41	0.212	41
Right Tilt	Full Power	1:1	1	0	20450/829	24.80	23.32	0.077	-0.100	1.41	0.108	/
Left Cheek	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.111	0.063	1.38	0.154	/
Left Tilt	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.066	-0.030	1.38	0.092	/
Right Cheek	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.131	0.020	1.38	0.181	/
Right Tilt	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.066	-0.100	1.38	0.092	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.221	-0.030	1.41	0.311	42
Front Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.200	0.050	1.41	0.281	/
Back Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.165	0.087	1.38	0.228	/
Front Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.153	-0.034	1.38	0.212	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.397	0.040	1.41	0.558	43
Front Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.357	0.010	1.41	0.502	/
Left Edge	Full Power	1:1	1	0	20450/829	24.80	23.32	0.156	0.035	1.41	0.219	/
Right Edge	Full Power	1:1	1	0	20450/829	24.80	23.32	0.131	0.028	1.41	0.184	/
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
Bottom Edge	Full Power	1:1	1	0	20450/829	24.80	23.32	0.273	0.090	1.41	0.384	/
Back Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.310	-0.010	1.38	0.429	/
Front Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.274	0.018	1.38	0.379	/
Left Edge	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.113	0.026	1.38	0.156	/
Right Edge	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.113	0.011	1.38	0.156	/
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
Bottom Edge	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.230	0.054	1.38	0.318	/

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

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



Table 17: LTE Band 7 (20MHz, ANT4)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.076	0.052	1.43	0.108	/
Left Tilt	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.059	0.023	1.43	0.085	/
Right Cheek	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.130	0.087	1.43	0.186	44
Right Tilt	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.030	0.095	1.43	0.042	/
Left Cheek	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.064	0.170	1.41	0.090	/
Left Tilt	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.045	0.000	1.41	0.064	/
Right Cheek	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.104	0.128	1.41	0.147	/
Right Tilt	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.020	0.000	1.41	0.028	/
Right Cheek	Full Power	1:1	1	99	20850/2510 (PCC)	23.50	21.98	0.115	0.060	1.42	0.163	/
			1	0	21048/2529.8(SCC)							
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.300	0.054	1.43	0.429	45
Front Side	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.252	0.070	1.43	0.360	/
Back Side	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.242	0.032	1.41	0.342	/
Front Side	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.212	0.022	1.41	0.299	/
Back Side	Full Power	1:1	1	99	20850/2510 (PCC)	23.50	21.98	0.246	-0.010	1.42	0.349	/
			1	0	21048/2529.8(SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	20850/2510	24.00	22.36	0.529	0.047	1.46	0.772	/
	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.592	0.025	1.43	0.846	46
	Full Power	1:1	1	99	21350/2560	24.00	22.31	0.571	0.022	1.48	0.843	/
Front Side	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.478	0.000	1.43	0.683	/
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
Right Edge	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.257	0.023	1.43	0.367	/
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
Bottom Edge	Full Power	1:1	1	99	21100/2535	24.00	22.45	0.477	-0.030	1.43	0.682	/
Back Side	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.493	0.077	1.41	0.696	/
Front Side	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.390	0.000	1.41	0.551	/
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
Right Edge	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.209	0.030	1.41	0.295	/
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
Bottom Edge	Full Power	1:1	50%	50	21100/2535	23.00	21.50	0.388	0.060	1.41	0.548	/



Back Side	Full Power	1:1	100%	0	21100/2535	23.00	21.42	0.448	0.073	1.44	0.645	/
Back Side	Full Power	1:1	1	99	20850/2510 (PCC)	23.50	21.98	0.476	-0.051	1.42	0.675	/
			1	0	21048/2529. 8(SCC)							

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

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



Table 18: LTE Band 12 (10MHz, ANT1)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	23060/704	24.80	23.27	0.119	0.038	1.42	0.169	/
Left Tilt	Full Power	1:1	1	0	23060/704	24.80	23.27	0.068	-0.023	1.42	0.097	/
Right Cheek	Full Power	1:1	1	0	23060/704	24.80	23.27	0.149	-0.021	1.42	0.212	47
Right Tilt	Full Power	1:1	1	0	23060/704	24.80	23.27	0.070	-0.170	1.42	0.100	/
Left Cheek	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.103	0.026	1.41	0.145	/
Left Tilt	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.059	0.030	1.41	0.083	/
Right Cheek	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.131	0.027	1.41	0.184	/
Right Tilt	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.061	-0.100	1.41	0.086	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.232	0.013	1.42	0.330	/
Front Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.242	-0.140	1.42	0.344	48
Back Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.229	0.054	1.41	0.322	/
Front Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.222	0.060	1.41	0.312	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.366	-0.030	1.42	0.521	49
Front Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.335	-0.025	1.42	0.476	/
Left Edge	Full Power	1:1	1	0	23060/704	24.80	23.27	0.187	0.017	1.42	0.266	/
Right Edge	Full Power	1:1	1	0	23060/704	24.80	23.27	0.118	0.062	1.42	0.168	/
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
Bottom Edge	Full Power	1:1	1	0	23060/704	24.80	23.27	0.284	0.035	1.42	0.404	/
Back Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.313	0.051	1.41	0.440	/
Front Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.291	-0.010	1.41	0.409	/
Left Edge	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.196	0.024	1.41	0.276	/
Right Edge	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.105	-0.038	1.41	0.148	/
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
Bottom Edge	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.262	0.000	1.41	0.368	/

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

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



Table 19: LTE Band 26 (15MHz, ANT1)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.086	-0.084	1.46	0.125	/
Left Tilt	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.062	-0.090	1.46	0.090	/
Right Cheek	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.108	0.085	1.46	0.158	50
Right Tilt	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.061	0.020	1.46	0.089	/
Left Cheek	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.077	0.134	1.42	0.109	/
Left Tilt	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.053	0.038	1.42	0.075	/
Right Cheek	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.099	-0.067	1.42	0.141	/
Right Tilt	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.055	0.080	1.42	0.077	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.164	0.030	1.46	0.239	/
Front Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.177	-0.060	1.46	0.258	51
Back Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.158	-0.028	1.42	0.224	/
Front Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.160	0.010	1.42	0.227	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.299	-0.020	1.46	0.436	52
Front Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.276	0.039	1.46	0.403	/
Left Edge	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.139	0.042	1.46	0.203	/
Right Edge	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.141	-0.080	1.46	0.206	/
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
Bottom Edge	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.235	-0.054	1.46	0.343	/
Back Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.270	0.027	1.42	0.383	/
Front Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.260	0.010	1.42	0.369	/
Left Edge	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.119	0.090	1.42	0.169	/
Right Edge	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.090	-0.058	1.42	0.128	/
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
Bottom Edge	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.207	-0.021	1.42	0.294	/

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

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



Table 20: LTE Band 38 (20MHz, ANT4)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.061	-0.050	1.41	0.086	/
Left Tilt	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.038	0.092	1.41	0.053	/
Right Cheek	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.066	0.100	1.41	0.094	/
Right Tilt	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.016	0.147	1.41	0.022	/
Left Cheek	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.049	0.115	1.39	0.068	/
Left Tilt	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.041	0.092	1.39	0.057	/
Right Cheek	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.072	0.023	1.39	0.100	53
Right Tilt	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.017	0.033	1.39	0.023	/
Right Cheek	Full Power	1:1.58	1	0	38048/2599.8(PCC)	24.00	22.51	0.058	-0.010	1.41	0.082	/
			1	99	37850/2580(SCC)							
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.155	-0.050	1.41	0.219	/
Front Side	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.115	-0.048	1.41	0.162	/
Back Side	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.160	-0.038	1.39	0.223	54
Front Side	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.119	-0.078	1.39	0.166	/
Back Side	Full Power	1:1.58	1	0	38048/2599.8(PCC)	24.00	22.51	0.101	0.020	1.41	0.142	/
			1	99	37850/2580(SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.356	-0.052	1.41	0.503	/
Front Side	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.251	-0.039	1.41	0.355	/
Left Edge	Full Power	1:1.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Right Edge	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.045	-0.050	1.41	0.064	/
Top Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	1:1.58	1	0	38150/2610	24.50	23.00	0.239	0.028	1.41	0.338	/
Back Side	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.366	-0.035	1.39	0.510	55
Front Side	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.265	0.020	1.39	0.369	/
Left Edge	Full Power	1:1.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Right Edge	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.043	0.022	1.39	0.060	/
Top Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	1:1.58	50%	25	38150/2610	23.50	22.06	0.212	0.028	1.39	0.295	/
Back Side	Full Power	1:1.58	1	0	38048/2599.8(PCC)	24.00	22.51	0.341	0.039	1.41	0.481	/



			1	99	37850/2580(SCC)							
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Note: 1. The value with blue color is the maximum SAR Value of each test band.

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



Table 21: LTE Band 41 (20MHz, ANT4)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.068	-0.120	1.37	0.093	/
Left Tilt	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.023	0.041	1.37	0.032	/
Right Cheek	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.077	0.099	1.37	0.105	/
Right Tilt	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.021	0.197	1.37	0.029	/
Left Cheek	Full Power	1:1.58	50%	25	40620/2593	24.50	22.17	0.052	-0.109	1.71	0.090	/
Left Tilt	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.024	-0.101	1.36	0.033	/
Right Cheek	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.082	0.076	1.36	0.112	56
Right Tilt	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.017	0.025	1.36	0.023	/
Right Cheek	Full Power	1:1.58	1	99	39750/2506 (PCC)	24.00	22.76	0.073	0.024	1.33	0.097	/
			1	0	39948/2525.8(SCC)							
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.224	0.150	1.37	0.307	57
Front Side	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.149	0.021	1.37	0.204	/
Back Side	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.195	-0.060	1.36	0.265	/
Front Side	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.179	0.043	1.36	0.243	/
Back Side	Full Power	1:1.58	1	99	39750/2506(PCC)	24.00	22.76	0.153	0.030	1.33	0.204	/
			1	0	39948/2525.8(SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.342	0.013	1.37	0.469	/
Front Side	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.406	0.025	1.37	0.557	58
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Right Edge	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.151	-0.095	1.37	0.207	/
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
Bottom Edge	Full Power	1:1.58	1	0	40620/2593	24.50	23.13	0.398	-0.030	1.37	0.546	/
Back Side	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.325	0.027	1.36	0.441	/
Front Side	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.367	0.016	1.36	0.499	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Right Edge	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.122	0.080	1.36	0.166	/
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
Bottom Edge	Full Power	1:1.58	50%	25	40620/2593	23.50	22.17	0.361	0.024	1.36	0.490	/
Back Side	Full Power	1:1.58	1	99	39750/2506 (PCC)	24.00	22.76	0.372	-0.180	1.33	0.495	/



			1	0	39948/2525. 8(SCC)							
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Note: 1. The value with blue color is the maximum SAR Value of each test band.

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



Table 22: LTE Band 66 (20MHz, ANT4)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.106	0.105	1.38	0.147	59
Left Tilt	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.062	-0.080	1.38	0.086	/
Right Cheek	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.081	0.096	1.38	0.112	/
Right Tilt	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.043	0.146	1.38	0.059	/
Left Cheek	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.098	0.066	1.37	0.135	/
Left Tilt	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.051	0.180	1.37	0.070	/
Right Cheek	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.088	0.020	1.37	0.121	/
Right Tilt	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.051	0.136	1.37	0.070	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.348	-0.020	1.38	0.481	/
Front Side	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.285	0.029	1.38	0.394	/
Back Side	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.297	0.068	1.37	0.408	/
Front Side	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.232	-0.027	1.37	0.319	/
Back Side (SIM 2)	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.362	0.010	1.38	0.501	60
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.559	-0.035	1.38	0.773	/
Front Side	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.428	0.078	1.38	0.592	/
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
Right Edge	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.381	-0.062	1.38	0.527	/
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
Bottom Edge	Full Power	1:1	1	0	132072/1720	24.50	23.09	0.629	0.000	1.38	0.870	61
	Full Power	1:1	1	0	132322/1745	24.50	23.05	0.594	0.043	1.40	0.829	/
	Full Power	1:1	1	0	132572/1770	24.50	22.95	0.562	0.010	1.43	0.803	/
Back Side	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.517	-0.120	1.37	0.710	/
Front Side	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.347	0.035	1.37	0.477	/
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
Right Edge	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.396	-0.064	1.37	0.544	/
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
Bottom Edge	Full Power	1:1	50%	25	132072/1720	23.50	22.12	0.605	0.059	1.37	0.831	/
	Full Power	1:1	50%	0	132322/1745	23.50	22.02	0.575	0.026	1.41	0.808	/
	Full Power	1:1	50%	25	132572/1770	23.50	22.04	0.615	-0.048	1.40	0.861	/
Bottom Edge	Full Power	1:1	100%	0	132072/1720	23.50	22.08	0.556	0.031	1.39	0.771	/

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

2. For 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).



3. Accessories that do not contain RF transmitters and have been proven to increase the peak SAR by less than 5 %, such as hands-free kits, do not need SAR tests separate from the SAR tests attached to a main EUT configuration.



Table 23: GSM 850 (ANT0)

Test Position	Power Reduction	Time slot	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Level1	GSM	1:8.3	190/836.6	32.80	32.31	0.611	-0.030	1.12	0.684	62
Left Tilt	Level1	GSM	1:8.3	190/836.6	32.80	32.31	0.125	0.170	1.12	0.140	/
Right Cheek	Level1	GSM	1:8.3	190/836.6	32.80	32.31	0.596	0.038	1.12	0.667	/
Right Tilt	Level1	GSM	1:8.3	190/836.6	32.80	32.31	0.139	0.020	1.12	0.156	/
Body-worn SAR (Distance 15mm)											
Back Side	Level1	GSM	1:8.3	190/836.6	32.80	32.31	0.213	-0.043	1.12	0.238	63
Front Side	Level1	GSM	1:8.3	190/836.6	32.80	32.31	0.141	0.021	1.12	0.158	/
Hotspot SAR(Distance 10mm)											
Back Side	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.329	0.000	1.50	0.495	64
Front Side	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.274	-0.080	1.50	0.412	/
Left Edge	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.294	0.042	1.50	0.442	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Full Power	4Txslots	1:2.07	190/836.6	29.50	27.73	0.001	0.000	1.50	0.002	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<p>Note: 1.The value with blue color is the maximum SAR Value of each test band.</p> <p>2.When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.</p>											



Table 24: GSM 1900 (ANT3)

Test Position	Power Reduction	Time slot	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Level1	GSM	1:8.3	661/1880	26.30	25.77	0.464	-0.070	1.13	0.524	/
Left Tilt	Level1	GSM	1:8.3	661/1880	26.30	25.77	0.505	-0.080	1.13	0.571	/
Right Cheek	Level1	GSM	1:8.3	661/1880	26.30	25.77	0.616	-0.010	1.13	0.696	/
Right Tilt	Level1	GSM	1:8.3	661/1880	26.30	25.77	0.640	0.000	1.13	0.723	65
Body-worn SAR (Distance 15mm)											
Back Side	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.181	-0.100	1.12	0.203	66
Front Side	Full Power	GSM	1:8.3	661/1880	30.80	30.31	0.155	0.035	1.12	0.174	/
Hotspot SAR(Distance 10mm)											
Back Side	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.357	-0.029	1.16	0.416	/
Front Side	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.383	0.034	1.16	0.446	/
Left Edge	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.044	0.010	1.16	0.051	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Full Power	3Txslots	1:2.77	661/1880	27.00	26.34	0.570	0.039	1.16	0.664	67
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Note: 1.The value with blue color is the maximum SAR Value of each test band. 2.When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.											



Table 25: UMTS Band II (ANT3)

Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Level1	RMC 12.2K	1:1	9400/1880	17.70	16.58	0.482	-0.070	1.29	0.624	/
Left Tilt	Level1	RMC 12.2K	1:1	9400/1880	17.70	16.58	0.521	-0.030	1.29	0.674	/
Right Cheek	Level1	RMC 12.2K	1:1	9400/1880	17.70	16.58	0.744	0.100	1.29	0.963	/
Right Tilt	Level1	RMC 12.2K	1:1	9262/1852.4	17.70	16.55	0.859	-0.110	1.30	1.119	68
	Level1	RMC 12.2K	1:1	9400/1880	17.70	16.58	0.834	-0.040	1.29	1.079	/
	Level1	RMC 12.2K	1:1	9538/1907.6	17.70	16.44	0.769	-0.040	1.34	1.028	/
Left Tilt	level 2&3&4	RMC 12.2K	1:1	9400/1880	16.70	15.63	0.423	0.023	1.28	0.541	/
Right Cheek	level 2&3&4	RMC 12.2K	1:1	9400/1880	16.70	15.63	0.564	0.033	1.28	0.722	/
Right Tilt	level 2&3&4	RMC 12.2K	1:1	9262/1852.4	16.70	15.63	0.632	0.015	1.28	0.809	/
Right Tilt	Repeated	RMC 12.2K	1:1	9262/1852.4	17.70	16.55	0.848	0.024	1.30	1.105	/
Body-worn SAR (Distance 15mm)											
Back Side	Level5	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.170	0.059	1.32	0.224	69
Front Side	Level5	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.107	0.028	1.32	0.141	/
Hotspot SAR(Distance 10mm)											
Back Side	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.223	-0.010	1.32	0.294	/
Front Side	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.232	0.067	1.32	0.306	/
Left Edge	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.024	0.022	1.32	0.032	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Level 6&7&8	RMC 12.2K	1:1	9400/1880	19.70	18.50	0.429	0.047	1.32	0.566	70
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: 1. The value with blue color is the maximum SAR Value of each test band.
 2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.

Measurement Variability				
Test Position	Channel/ Frequency(MHz)	MAX Measured SAR _{1g} (W/kg)	1 st Repeated SAR _{1g} (W/kg)	Ratio
Right Tilt	9262/1852.4	0.859	0.848	1.01

Note: 1) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 2) 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 .



Table 26: UMTS Band IV (ANT3)

Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Level 1	RMC 12.2K	1:1	1413/1732.6	17.20	15.98	0.495	-0.090	1.32	0.656	/
Left Tilt	Level 1	RMC 12.2K	1:1	1413/1732.6	17.20	15.98	0.598	-0.080	1.32	0.792	/
Right Cheek	Level 1	RMC 12.2K	1:1	1413/1732.6	17.20	15.98	0.511	-0.060	1.32	0.677	/
Right Tilt	Level 1	RMC 12.2K	1:1	1312/1712.4	17.20	16.12	0.830	-0.050	1.28	1.064	/
	Level 1	RMC 12.2K	1:1	1413/1732.6	17.20	15.98	0.894	-0.090	1.32	1.184	/
	Level 1	RMC 12.2K	1:1	1513/1752.6	17.20	16.00	0.898	-0.070	1.32	1.184	71
Left Tilt	level 2&3&4	RMC 12.2K	1:1	1413/1732.6	15.70	14.53	0.416	0.073	1.31	0.545	/
Right Tilt	level 2&3&4	RMC 12.2K	1:1	1513/1752.6	15.70	14.53	0.575	0.061	1.31	0.753	/
Right Tilt (SIM2)	Level 1	RMC 12.2K	1:1	1413/1732.6	17.20	15.98	0.827	0.050	1.32	1.095	/
Right Tilt (Repeated)	Level 1	RMC 12.2K	1:1	1413/1732.6	17.20	15.98	0.885	0.010	1.32	1.172	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	RMC 12.2K	1:1	1413/1732.6	21.20	19.71	0.236	-0.060	1.41	0.333	72
Front Side	Level 5	RMC 12.2K	1:1	1413/1732.6	21.20	19.71	0.206	0.040	1.41	0.290	/
Hotspot SAR(Distance 10mm)											
Back Side	Level 6&7&8	RMC 12.2K	1:1	1413/1732.6	20.70	19.58	0.357	0.024	1.29	0.462	/
Front Side	Level 6&7&8	RMC 12.2K	1:1	1413/1732.6	20.70	19.58	0.352	0.030	1.29	0.456	/
Left Edge	Level 6&7&8	RMC 12.2K	1:1	1413/1732.6	20.70	19.58	0.057	0.018	1.29	0.074	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Level 6&7&8	RMC 12.2K	1:1	1312/1712.4	20.70	19.58	0.794	-0.042	1.29	1.028	/
	Level 6&7&8	RMC 12.2K	1:1	1413/1732.6	20.70	19.42	0.725	0.039	1.34	0.974	/
	Level 6&7&8	RMC 12.2K	1:1	1513/1752.6	20.70	19.45	0.872	0.021	1.33	1.163	73
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge (SIM 2)	Level 6&7&8	RMC 12.2K	1:1	1513/1752.6	20.70	19.45	0.815	0.029	1.33	1.087	/
Top Edge (Repeated)	Level 6&7&8	RMC 12.2K	1:1	1513/1752.6	20.70	19.45	0.865	-0.065	1.33	1.153	/
Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
							Measured SAR10g	Power Drift (dB)	Scaling Factor	Report SAR10g	
Product Specific 10-g SAR (Distance 0mm)											
Top Edge	Level 5	RMC 12.2K	1:1	1312/1712.4	21.20	19.80	2.020	0.025	1.38	2.788	74
	Level 5	RMC 12.2K	1:1	1413/1732.6	21.20	19.71	1.940	0.060	1.41	2.734	/
	Level 5	RMC 12.2K	1:1	1513/1752.6	21.20	19.87	2.010	0.190	1.36	2.730	/
Top Edge	Level 5	RMC 12.2K	1:1	1312/1712.4	21.20	19.80	1.890	-0.033	1.38	2.609	/



(SIM2)											
Top Edge	Level 6&7&8	RMC 12.2K	1:1	1312/1712.4	21.20	19.80	1.520	-0.040	1.38	2.098	/

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

2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.
3. Accessories that do not contain RF transmitters and have been proven to increase the peak SAR by less than 5 %, such as hands-free kits, do not need SAR tests separate from the SAR tests attached to a main EUT configuration.

Measurement Variability

Test Position	Channel/ Frequency(MHz)	MAX Measured SAR _{1g} (W/kg)	1 st Repeated SAR _{1g} (W/kg)	Ratio
Right Tilt	1413/1732.6	0.898	0.885	1.01
Top Edge	1513/1752.6	0.872	0.865	1.01

Note: 1) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

2) 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 .

MAX Adjusted SAR

Test Position	Power Reduction	Mode	Channel/ Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR _{1g} (mW/g)	Scaling Factor	Full power Report SAR _{1g} (mW/g)	0mm SAR
Back Side	Level 6&7&8	RMC 12.2K	1413/1732.6	21.20	20.70	0.462	1.12	0.518	No
Front Side	Level 6&7&8	RMC 12.2K	1413/1732.6	21.20	20.70	0.456	1.12	0.511	No
Left Edge	Level 6&7&8	RMC 12.2K	1413/1732.6	21.20	20.70	0.074	1.12	0.083	No
Top Edge	Level 6&7&8	RMC 12.2K	1312/1712.4	21.20	20.70	1.028	1.12	1.153	No
	Level 6&7&8	RMC 12.2K	1413/1732.6	21.20	20.70	0.974	1.12	1.092	No
	Level 6&7&8	RMC 12.2K	1513/1752.6	21.20	20.70	1.163	1.12	1.305	Yes

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 27: UMTS Band V (ANT0)

Test Position	Power Reduction	Channel Type	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR											
Left Cheek	Level 1	RMC 12.2K	1:1	4132/826.4	23.80	22.49	0.689	0.030	1.35	0.932	/
	Level 1	RMC 12.2K	1:1	4183/836.6	23.80	22.41	0.695	-0.037	1.38	0.957	75
	Level 1	RMC 12.2K	1:1	4233/846.6	23.80	22.50	0.672	0.070	1.35	0.907	/
Left Tilt	Level 1	RMC 12.2K	1:1	4183/836.6	23.80	22.41	0.139	0.023	1.38	0.191	/
Right Cheek	Level 1	RMC 12.2K	1:1	4132/826.4	23.80	22.49	0.610	0.027	1.35	0.825	/
	Level 1	RMC 12.2K	1:1	4183/836.6	23.80	22.41	0.694	0.070	1.38	0.956	/
	Level 1	RMC 12.2K	1:1	4233/846.6	23.80	22.50	0.626	0.160	1.35	0.844	/
Right Tilt	Level 1	RMC 12.2K	1:1	4183/836.6	23.80	22.41	0.196	0.026	1.38	0.270	/
Left Cheek	level 2&3&4	RMC 12.2K	1:1	4183/836.6	23.80	22.41	0.519	0.026	1.38	0.715	/
Right Cheek	level 2&3&4	RMC 12.2K	1:1	4183/836.6	23.80	22.41	0.486	0.011	1.38	0.669	/
Body-worn SAR (Distance 15mm)											
Back Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.238	-0.150	1.36	0.325	76
Front Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.177	0.040	1.36	0.242	/
Hotspot SAR(Distance 10mm)											
Back Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.344	-0.130	1.36	0.469	/
Front Side	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.320	0.018	1.36	0.437	/
Left Edge	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.567	-0.020	1.36	0.774	77
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Full Power	RMC 12.2K	1:1	4183/836.6	24.80	23.45	0.035	0.054	1.36	0.048	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.</p>											



Table 28: LTE Band 2 (20MHz, ANT3)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1	1	99	18700/1860	17.50	16.27	0.471	0.010	1.33	0.625	/
Left Tilt	Level 1	1:1	1	99	18700/1860	17.50	16.27	0.483	0.020	1.33	0.641	/
Right Cheek	Level 1	1:1	1	99	18700/1860	17.50	16.27	0.550	0.080	1.33	0.730	/
Right Tilt	Level 1	1:1	1	99	18700/1860	17.50	16.27	0.634	0.080	1.33	0.842	/
	Level 1	1:1	1	99	18900/1880	17.50	16.10	0.635	0.020	1.38	0.877	/
	Level 1	1:1	1	0	19100/1900	17.50	16.13	0.634	0.000	1.37	0.869	/
Left Cheek	Level 1	1:1	50%	50	18700/1860	17.50	16.08	0.511	0.060	1.39	0.709	/
Left Tilt	Level 1	1:1	50%	50	18700/1860	17.50	16.08	0.524	-0.010	1.39	0.727	/
Right Cheek	Level 1	1:1	50%	50	18700/1860	17.50	16.08	0.650	0.042	1.39	0.901	/
	Level 1	1:1	50%	50	18900/1880	17.50	16.03	0.583	0.000	1.40	0.818	/
	Level 1	1:1	50%	50	19100/1900	17.50	16.05	0.635	0.020	1.40	0.887	/
Right Tilt	Level 1	1:1	50%	50	18700/1860	17.50	16.08	0.680	0.100	1.39	0.943	/
	Level 1	1:1	50%	50	18900/1880	17.50	16.03	0.662	0.000	1.40	0.929	/
	Level 1	1:1	50%	50	19100/1900	17.50	16.05	0.685	0.040	1.40	0.957	78
Right Tilt	Level 1	1:1	100%	0	18700/1860	17.50	16.20	0.641	0.010	1.35	0.865	/
	Level 1	1:1	100%	0	18900/1880	17.50	16.07	0.641	0.030	1.39	0.891	/
	Level 1	1:1	100%	0	19100/1900	17.50	16.04	0.663	-0.020	1.40	0.928	/
Left Tilt	level 2&3&4	1:1	50%	25	19100/1900	16.50	15.14	0.427	0.013	1.37	0.584	/
Right Cheek	level 2&3&4	1:1	50%	25	19100/1900	16.50	15.14	0.532	-0.018	1.37	0.728	/
Right Tilt	level 2&3&4	1:1	50%	25	19100/1900	16.50	15.14	0.559	0.060	1.37	0.765	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level5	1:1	1	0	18700/1860	20.00	18.80	0.193	0.016	1.32	0.254	/
Front Side	Level5	1:1	1	0	18700/1860	20.00	18.80	0.180	0.029	1.32	0.237	/
Back Side	Level5	1:1	50%	25	18700/1860	20.00	18.71	0.255	-0.033	1.35	0.343	79
Front Side	Level5	1:1	50%	25	18700/1860	20.00	18.71	0.177	-0.041	1.35	0.238	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1	1	0	18700/1860	20.00	18.80	0.369	0.028	1.32	0.486	/
Front Side	Level 6&7&8	1:1	1	0	18700/1860	20.00	18.80	0.377	0.019	1.32	0.497	/
Left Edge	Level 6&7&8	1:1	1	0	18700/1860	20.00	18.80	0.025	0.027	1.32	0.033	/
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
Top Edge	Level 6&7&8	1:1	1	0	18700/1860	20.00	18.80	0.478	-0.060	1.32	0.630	/
Bottom 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
Back Side	Level 6&7&8	1:1	50%	25	18700/1860	20.00	18.71	0.379	0.022	1.35	0.510	/
Front Side	Level 6&7&8	1:1	50%	25	18700/1860	20.00	18.71	0.386	0.040	1.35	0.520	/
Left Edge	Level 6&7&8	1:1	50%	25	18700/1860	20.00	18.71	0.041	0.030	1.35	0.055	/



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
Top Edge	Level 6&7&8	1:1	50%	25	18700/1860	20.00	18.71	0.541	0.040	1.35	0.728	80
Bottom 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

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

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



Table 29: LTE Band 5 (10MHz, ANT0)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1	1	25	20525/836.5	22.80	21.67	0.261	-0.045	1.30	0.339	/
Left Tilt	Level 1	1:1	1	25	20525/836.5	22.80	21.67	0.162	-0.050	1.30	0.210	/
Right Cheek	Level 1	1:1	1	25	20525/836.5	22.80	21.67	0.373	0.067	1.30	0.484	81
Right Tilt	Level 1	1:1	1	25	20525/836.5	22.80	21.67	0.083	0.071	1.30	0.108	/
Left Cheek	Level 1	1:1	50%	0	20450/829	22.80	21.61	0.288	0.150	1.32	0.379	/
Left Tilt	Level 1	1:1	50%	0	20450/829	22.80	21.61	0.153	0.000	1.32	0.201	/
Right Cheek	Level 1	1:1	50%	0	20450/829	22.80	21.61	0.360	0.083	1.32	0.473	/
Right Tilt	Level 1	1:1	50%	0	20450/829	22.80	21.61	0.077	0.054	1.32	0.102	/
Left Cheek	Level 2&3&4	1:1	50%	25	20450/829	18.80	17.42	0.175	0.060	1.37	0.240	/
Left Tilt	Level 2&3&4	1:1	1	0	20525/836.5	18.80	17.63	0.084	0.020	1.31	0.110	/
Right Cheek	Level 2&3&4	1:1	1	0	20525/836.5	18.80	17.63	0.195	-0.038	1.31	0.255	/
Right Tilt	Level 2&3&4	1:1	1	0	20525/836.5	18.80	17.63	0.098	0.010	1.31	0.128	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.165	0.013	1.41	0.232	/
Front Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.126	0.010	1.41	0.177	/
Back Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.169	0.130	1.38	0.234	82
Front Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.128	0.150	1.38	0.177	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.288	-0.010	1.41	0.405	/
Front Side	Full Power	1:1	1	0	20450/829	24.80	23.32	0.220	0.026	1.41	0.309	/
Left Edge	Full Power	1:1	1	0	20450/829	24.80	23.32	0.414	0.020	1.41	0.582	83
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
Top Edge	Full Power	1:1	1	0	20450/829	24.80	23.32	0.042	-0.030	1.41	0.059	/
Bottom 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
Back Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.271	-0.042	1.38	0.375	/
Front Side	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.223	-0.180	1.38	0.309	/
Left Edge	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.378	-0.032	1.38	0.523	/
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
Top Edge	Full Power	1:1	50%	13	20450/829	23.80	22.39	0.029	0.080	1.38	0.040	/
Bottom 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
Note: 1. The value with blue color is the maximum SAR Value of each test band.												
2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are \geq 50% limit(1g).												



Table 30: LTE Band 7 (20MHz, ANT3)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1	1	50	21100/2535	15.00	13.76	0.487	-0.020	1.33	0.648	/
Left Tilt	Level 1	1:1	1	50	21100/2535	15.00	13.76	0.578	-0.110	1.33	0.769	/
Right Cheek	Level 1	1:1	1	50	21100/2535	15.00	13.76	0.596	0.000	1.33	0.793	/
Right Tilt	Level 1	1:1	1	0	20850/2510	15.00	13.64	0.735	-0.020	1.37	1.005	/
	Level 1	1:1	1	50	21100/2535	15.00	13.76	0.763	-0.020	1.33	1.015	/
	Level 1	1:1	1	0	21350/2560	15.00	13.73	0.672	0.090	1.34	0.900	/
Left Cheek	Level 1	1:1	50%	50	20850/2510	15.00	13.64	0.472	-0.030	1.37	0.646	/
Left Tilt	Level 1	1:1	50%	50	20850/2510	15.00	13.64	0.554	-0.070	1.37	0.758	/
Right Cheek	Level 1	1:1	50%	50	20850/2510	15.00	13.64	0.582	0.020	1.37	0.796	/
Right Tilt	Level 1	1:1	50%	50	20850/2510	15.00	13.64	0.744	-0.050	1.37	1.018	/
	Level 1	1:1	50%	50	21100/2535	15.00	13.55	0.726	-0.023	1.40	1.014	/
	Level 1	1:1	50%	50	21350/2560	15.00	13.58	0.749	0.180	1.39	1.039	/
Right Tilt	Level 1	1:1	100%	0	20850/2510	15.00	13.61	0.781	0.060	1.38	1.076	84
	Level 1	1:1	100%	0	21100/2535	15.00	13.60	0.762	0.043	1.38	1.052	/
	Level 1	1:1	100%	0	21350/2560	15.00	13.55	0.718	0.099	1.40	1.003	/
Right Tilt	Level 1	1:1	1	99	21100/2535 (PCC)	14.50	13.28	0.558	0.040	1.32	0.739	/
			1	0	21298/2554.8(SCC)							
Left Cheek	Level 2&3&4	1:1	1	50	21350/2560	13.00	12.09	0.291	0.024	1.23	0.359	/
Left Tilt	Level 2&3&4	1:1	1	50	21350/2560	13.00	12.09	0.356	-0.068	1.23	0.439	/
Right Cheek	Level 2&3&4	1:1	50%	25	21100/2535	13.00	11.86	0.392	0.035	1.30	0.510	/
Right Tilt	Level 2&3&4	1:1	100%	0	20850/2510	13.00	11.61	0.478	0.012	1.38	0.658	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level 5	1:1	1	0	21350/2560	20.00	18.76	0.213	0.030	1.33	0.283	/
Front Side	Level 5	1:1	1	0	21350/2560	20.00	18.76	0.206	-0.024	1.33	0.274	/
Back Side	Level 5	1:1	50%	50	21350/2560	20.00	18.53	0.276	0.011	1.40	0.387	85
Front Side	Level 5	1:1	50%	50	21350/2560	20.00	18.53	0.214	0.078	1.40	0.300	/
Back Side	Level 5	1:1	1	99	20850/2510 (PCC)	19.50	18.10	0.215	-0.020	1.38	0.297	/
			1	0	21048/2529.8(SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1	1	50	20850/2510	19.00	17.83	0.352	0.024	1.31	0.461	/
Front Side	Level 6&7&8	1:1	1	50	20850/2510	19.00	17.83	0.358	-0.016	1.31	0.469	/
Left Edge	Level 6&7&8	1:1	1	50	20850/2510	19.00	17.83	0.101	0.028	1.31	0.132	/



Right Edge	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A
Top Edge	Level 6&7&8	1:1	1	50	20850/2510	19.00	17.83	0.625	0.030	1.31	0.818	/
	Level 6&7&8	1:1	1	50	21100/2535	19.00	17.73	0.732	-0.060	1.34	0.981	
	Level 6&7&8	1:1	1	50	21350/2560	19.00	17.76	0.728	0.019	1.33	0.969	
Bottom Edge	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A
Back Side	Level 6&7&8	1:1	50%	25	21100/2535	19.00	17.67	0.389	0.080	1.36	0.528	/
Front Side	Level 6&7&8	1:1	50%	25	21100/2535	19.00	17.67	0.338	0.024	1.36	0.459	/
Left Edge	Level 6&7&8	1:1	50%	25	21100/2535	19.00	17.65	0.108	0.011	1.36	0.147	/
Right Edge	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A
Top Edge	Level 6&7&8	1:1	50%	25	20850/2510	19.00	17.67	0.697	0.010	1.36	0.947	/
	Level 6&7&8	1:1	50%	25	21100/2535	19.00	17.67	0.762	0.062	1.36	1.035	86
	Level 6&7&8	1:1	50%	50	21350/2560	19.00	17.65	0.734	0.027	1.36	1.002	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	N/A
Top Edge	Level 6&7&8	1:1	100%	0	20850/2510	19.00	17.53	0.709	0.030	1.40	0.995	/
	Level 6&7&8	1:1	100%	0	21100/2535	19.00	17.39	0.713	0.180	1.45	1.033	/
	Level 6&7&8	1:1	100%	0	21350/2560	19.00	17.40	0.684	0.027	1.45	0.989	/
Top Edge	Level 6&7&8	1:1	1	99	21100/2535 (PCC)	18.50	17.31	0.657	0.016	1.32	0.864	/
			1	0	21298/2554. 8(SCC)							
Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
								Measured SAR _{10g}	Power Drift (dB)	Scaling Factor	Report SAR _{10g}	
Product Specific 10-g SAR (Distance 0mm)												
Top Edge	Level 5	1:1	1	50	20850/2510	20.00	18.73	1.930	-0.072	1.34	2.586	/
	Level 5	1:1	1	0	21100/2535	20.00	18.69	1.810	0.020	1.35	2.447	/
	Level 5	1:1	1	0	21350/2560	20.00	18.76	1.760	-0.095	1.33	2.342	/
Top Edge	Level 5	1:1	50%	50	20850/2510	20.00	18.53	1.770	0.011	1.40	2.483	/
	Level 5	1:1	50%	50	21100/2535	20.00	18.46	1.830	-0.069	1.43	2.609	/
	Level 5	1:1	50%	50	21350/2560	20.00	18.53	1.700	-0.068	1.40	2.385	/
Top Edge	Level 5	1:1	100%	0	20850/2510	20.00	18.71	1.980	-0.079	1.35	2.665	87
	Level 5	1:1	100%	0	21100/2535	20.00	18.63	1.800	-0.069	1.37	2.468	/
	Level 5	1:1	100%	0	21350/2560	20.00	18.66	1.866	0.125	1.36	2.540	/
Top Edge	Level 5	1:1	1	99	20850/2510(PCC)	19.50	18.10	1.740	0.083	1.38	2.402	/
			1	0	21048/2529. 8(SCC)							
Top Edge	Level 6&7&8	1:1	100%	0	20850/2510	19.00	17.53	1.470	-0.079	1.40	2.062	/

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

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



MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	50	20850/2510	20.00	19.00	0.461	1.26	0.580	NO
Front Side	Level 6&7&8	1	50	20850/2510	20.00	19.00	0.469	1.26	0.590	NO
Left Edge	Level 6&7&8	1	50	20850/2510	20.00	19.00	0.132	1.26	0.166	NO
Top Edge	Level 6&7&8	1	50	20850/2510	20.00	19.00	0.818	1.26	1.030	NO
	Level 6&7&8	1	50	21100/2535	20.00	19.00	0.981	1.26	1.235	Yes
	Level 6&7&8	1	50	21350/2560	20.00	19.00	0.969	1.26	1.219	Yes
Back Side	Level 6&7&8	50%	25	20850/2510	20.00	19.00	0.528	1.26	0.665	NO
Front Side	Level 6&7&8	50%	25	21350/2560	20.00	19.00	0.459	1.26	0.578	NO
Left Edge	Level 6&7&8	50%	50	21350/2560	20.00	19.00	0.147	1.26	0.186	NO
Top Edge	Level 6&7&8	50%	25	20850/2510	20.00	19.00	0.947	1.26	1.192	NO
		50%	25	21350/2560	20.00	19.00	1.080	1.26	1.359	Yes
		50%	50	21350/2560	20.00	19.00	1.002	1.26	1.261	Yes
Top Edge	Level 6&7&8	100%	0	20850/2510	20.00	19.00	0.995	1.26	1.252	Yes
	Level 6&7&8	100%	0	21100/2535	20.00	19.00	1.047	1.26	1.319	Yes
	Level 6&7&8	100%	0	21350/2560	20.00	19.00	0.989	1.26	1.245	Yes

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 31: LTE Band 12 (10MHz, ANT0)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	23060/704	24.80	23.27	0.392	0.160	1.42	0.558	88
Left Tilt	Full Power	1:1	1	0	23060/704	24.80	23.27	0.072	-0.010	1.42	0.103	/
Right Cheek	Full Power	1:1	1	0	23060/704	24.80	23.27	0.345	0.036	1.42	0.491	/
Right Tilt	Full Power	1:1	1	0	23060/704	24.80	23.27	0.067	0.020	1.42	0.095	/
Left Cheek	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.345	-0.060	1.41	0.485	/
Left Tilt	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.064	0.028	1.41	0.090	/
Right Cheek	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.221	0.124	1.41	0.311	/
Right Tilt	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.059	0.041	1.41	0.083	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.151	0.140	1.42	0.215	89
Front Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.132	0.016	1.42	0.188	/
Back Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.127	-0.040	1.41	0.179	/
Front Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.115	-0.091	1.41	0.162	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.292	0.130	1.42	0.415	/
Front Side	Full Power	1:1	1	0	23060/704	24.80	23.27	0.222	-0.051	1.42	0.316	/
Left Edge	Full Power	1:1	1	0	23060/704	24.80	23.27	0.322	-0.110	1.42	0.458	90
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
Top Edge	Full Power	1:1	1	0	23060/704	24.80	23.27	0.023	-0.067	1.42	0.033	/
Bottom 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
Back Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.197	0.020	1.41	0.277	/
Front Side	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.195	0.028	1.41	0.274	/
Left Edge	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.288	-0.080	1.41	0.405	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Top Edge	Full Power	1:1	50%	13	23060/704	23.80	22.32	0.001	0.034	1.41	0.001	/
Bottom 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

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

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



Table 32: LTE Band 26 (15MHz, ANT0)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.465	-0.055	1.46	0.678	/
Left Tilt	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.087	0.032	1.46	0.126	/
Right Cheek	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.510	0.031	1.46	0.744	91
Right Tilt	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.146	0.080	1.46	0.213	/
Left Cheek	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.470	0.170	1.42	0.667	/
Left Tilt	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.077	0.046	1.42	0.109	/
Right Cheek	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.447	0.028	1.42	0.634	/
Right Tilt	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.130	0.024	1.42	0.184	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.156	0.026	1.46	0.228	92
Front Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.118	0.031	1.46	0.172	/
Back Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.137	-0.020	1.42	0.194	/
Front Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.104	0.090	1.42	0.148	/
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.270	0.018	1.46	0.394	/
Front Side	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.202	0.052	1.46	0.295	/
Left Edge	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.384	-0.040	1.46	0.560	93
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
Top Edge	Full Power	1:1	1	0	26765/821.5	24.80	23.16	0.049	0.000	1.46	0.071	/
Bottom 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
Back Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.227	0.032	1.42	0.322	/
Front Side	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.181	0.018	1.42	0.257	/
Left Edge	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.331	0.040	1.42	0.470	/
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
Top Edge	Full Power	1:1	50%	0	26765/821.5	23.80	22.28	0.011	0.026	1.42	0.016	/
Bottom 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

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

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



Table 33: LTE Band 38 (20MHz, ANT3)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1.58	1	50	37850/2580	17.50	16.39	0.416	-0.021	1.29	0.537	/
Left Tilt	Level 1	1:1.58	1	50	37850/2580	17.50	16.39	0.620	-0.160	1.29	0.801	/
	Level 1	1:1.58	1	50	38000/2595	17.50	16.38	0.514	-0.160	1.29	0.665	/
	Level 1	1:1.58	1	99	38150/2610	17.50	16.32	0.471	-0.170	1.31	0.618	/
Right Cheek	Level 1	1:1.58	1	50	37850/2580	17.50	16.39	0.557	-0.060	1.29	0.719	/
Right Tilt	Level 1	1:1.58	1	50	37850/2580	17.50	16.39	0.725	-0.050	1.29	0.936	/
	Level 1	1:1.58	1	50	38000/2595	17.50	16.38	0.677	-0.030	1.29	0.876	/
	Level 1	1:1.58	1	99	38150/2610	17.50	16.32	0.659	0.088	1.31	0.865	/
Left Cheek	Level 1	1:1.58	50%	25	40620/2593	16.00	14.71	0.298	-0.030	1.35	0.401	/
Left Tilt	Level 1	1:1.58	50%	25	40620/2593	16.00	14.71	0.415	0.011	1.35	0.559	/
Right Cheek	Level 1	1:1.58	50%	25	37850/2580	17.50	16.31	0.580	-0.060	1.32	0.763	/
Right Tilt	Level 1	1:1.58	50%	25	37850/2580	17.50	16.31	0.755	-0.030	1.32	0.993	/
	Level 1	1:1.58	50%	0	38000/2595	17.50	16.24	0.772	0.000	1.34	1.032	94
	Level 1	1:1.58	50%	0	38150/2610	17.50	16.26	0.734	-0.030	1.33	0.977	/
Right Tilt	Level 1	1:1.58	100%	0	37850/2580	17.50	16.14	0.713	0.020	1.37	0.975	/
	Level 1	1:1.58	100%	0	38000/2595	17.50	16.12	0.696	0.030	1.37	0.956	/
	Level 1	1:1.58	100%	0	38150/2610	17.50	16.15	0.601	-0.023	1.36	0.820	/
Right Tilt	Level 1	1:1.58	1	0	38099/2604.9(PCC)	17.00	16.01	0.664	-0.090	1.26	0.834	/
			1	99	37901/2585.1(SCC)							
Left Tilt	Level 2&3&4	1:1.58	50%	0	37850/2580	16.00	14.69	0.489	0.038	1.35	0.661	/
Right Tilt	Level 2&3&4	1:1.58	50%	0	38000/2595	16.00	14.69	0.526	0.040	1.35	0.711	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level 5	1:1.58	1	50	37850/2580	21.50	20.30	0.115	0.032	1.32	0.152	/
Front Side	Level 5	1:1.58	1	50	37850/2580	21.50	20.30	0.117	0.040	1.32	0.154	/
Back Side	Level 5	1:1.58	50%	50	38000/2595	21.50	20.08	0.128	-0.100	1.39	0.178	/
Front Side	Level 5	1:1.58	50%	50	38000/2595	21.50	20.08	0.169	0.042	1.39	0.234	95
Front Side	Level 5	1:1.58	1	0	38048/2599.8(PCC)	21.00	19.88	0.164	0.062	1.29	0.212	/
			1	99	37850/2580(SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1.58	1	50	37850/2580	21.00	19.92	0.338	0.026	1.28	0.433	/
Front Side	Level 6&7&8	1:1.58	1	50	37850/2580	21.00	19.92	0.210	0.014	1.28	0.269	/
Left Edge	Level 6&7&8	1:1.58	1	50	37850/2580	21.00	19.92	0.075	0.080	1.28	0.096	/



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
Top Edge	Level 6&7&8	1:1.58	1	50	37850/2580	21.00	19.92	0.705	0.031	1.28	0.904	/
Bottom 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
Back Side	Level 6&7&8	1:1.58	50%	0	38000/2595	21.00	19.71	0.315	0.033	1.35	0.424	/
Front Side	Level 6&7&8	1:1.58	50%	0	38000/2595	21.00	19.71	0.296	0.014	1.35	0.398	/
Left Edge	Level 6&7&8	1:1.58	50%	0	38000/2595	21.00	19.71	0.091	-0.061	1.35	0.122	/
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
Top Edge	Level 6&7&8	1:1.58	50%	0	37850/2580	21.00	19.66	0.715	0.088	1.36	0.973	/
	Level 6&7&8	1:1.58	50%	0	38000/2595	21.00	19.71	0.782	-0.027	1.35	1.052	96
	Level 6&7&8	1:1.58	50%	0	38150/2610	21.00	19.66	0.769	0.031	1.36	1.047	/
Bottom 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
Top Edge	Level 6&7&8	1:1.58	100%	0	37850/2580	21.00	19.62	0.725	-0.010	1.37	0.996	/
	Level 6&7&8	1:1.58	100%	0	38000/2595	21.00	19.52	0.703	0.032	1.41	0.988	/
	Level 6&7&8	1:1.58	100%	0	38150/2610	21.00	19.64	0.693	0.040	1.37	0.948	/
Top Edge	Level 6&7&8	1:1.58	1	0	38048/2599.8(PCC)	20.50	19.40	0.742	0.011	1.29	0.956	/
			1	99	37850/2580(SCC)							

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

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

MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	50	37850/2580	21.50	21.00	0.433	1.12	0.486	No
Front Side	Level 6&7&8	1	50	37850/2580	21.50	21.00	0.027	1.12	0.030	No
Left Edge	Level 6&7&8	1	50	37850/2580	21.50	21.00	0.096	1.12	0.108	No
Top Edge	Level 6&7&8	1	50	37850/2580	21.50	21.00	0.904	1.12	1.014	No
Back Side	Level 6&7&8	50%	0	38000/2595	21.50	21.00	0.424	1.12	0.476	No
Front Side	Level 6&7&8	50%	0	38000/2595	21.50	21.00	0.398	1.12	0.447	No
Left Edge	Level 6&7&8	50%	0	38000/2595	21.50	21.00	0.122	1.12	0.137	No
Top Edge	Level 6&7&8	50%	0	37850/2580	21.50	21.00	0.973	1.12	1.092	No
	Level 6&7&8	50%	0	38000/2595	21.50	21.00	1.052	1.12	1.181	No
	Level 6&7&8	50%	0	38150/2610	21.50	21.00	1.047	1.12	1.175	No
Top Edge	Level 6&7&8	100%	0	37850/2580	21.50	21.00	0.996	1.12	1.118	No
	Level 6&7&8	100%	0	38000/2595	21.50	21.00	0.988	1.12	1.109	No
	Level 6&7&8	100%	0	38150/2610	21.50	21.00	0.948	1.12	1.063	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 34: LTE Band 41 (20MHz, ANT3)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1.58	1	99	39750/2506	17.00	15.97	0.428	-0.160	1.27	0.543	/
Left Tilt	Level 1	1:1.58	1	99	39750/2506	17.00	15.97	0.573	-0.090	1.27	0.726	/
Right Cheek	Level 1	1:1.58	1	99	39750/2506	17.00	15.97	0.500	0.000	1.27	0.634	/
Right Tilt	Level 1	1:1.58	1	99	39750/2506	17.00	15.97	0.610	-0.070	1.27	0.773	97
Left Cheek	Level 1	1:1.58	50%	25	41055/2636.5	17.00	15.57	0.395	-0.090	1.39	0.549	/
Left Tilt	Level 1	1:1.58	50%	25	41055/2636.5	17.00	15.57	0.531	-0.080	1.39	0.738	/
Right Cheek	Level 1	1:1.58	50%	25	41055/2636.5	17.00	15.57	0.460	0.022	1.39	0.639	/
Right Tilt	Level 1	1:1.58	50%	25	41055/2636.5	17.00	15.57	0.553	-0.050	1.39	0.769	/
Right Tilt	Level 1	1:1.58	1	99	39750/2506(PCC)	16.50	15.48	0.485	0.019	1.26	0.613	/
			1	0	39948/2525.8(SCC)							
Left Tilt	Level 2&3&4	1:1.58	50%	25	40620/2593	16.00	14.71	0.415	0.011	1.35	0.559	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level 5	1:1.58	1	50	41055/2636.5	21.50	20.25	0.161	0.019	1.33	0.215	/
Front Side	Level 5	1:1.58	1	50	41055/2636.5	21.50	20.25	0.186	0.022	1.33	0.248	98
Back Side	Level 5	1:1.58	50%	50	39750/2506	21.50	20.23	0.159	-0.060	1.34	0.213	/
Front Side	Level 5	1:1.58	50%	50	39750/2506	21.50	20.23	0.173	0.024	1.34	0.232	/
Front Side	Level 1	1:1.58	1	99	39750/2506 (PCC)	21.00	19.83	0.126	0.040	1.31	0.165	/
			1	0	39948/2525.8 (SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1.58	1	50	40620/2593	21.00	19.93	0.318	-0.010	1.28	0.407	/
Front Side	Level 6&7&8	1:1.58	1	50	40620/2593	21.00	19.93	0.334	0.020	1.28	0.427	/
Left Edge	Level 6&7&8	1:1.58	1	50	40620/2593	21.00	19.93	0.062	-0.043	1.28	0.079	/
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
Top Edge	Level 6&7&8	1:1.58	1	50	39750/2506	21.00	19.91	0.522	-0.021	1.29	0.671	/
	Level 6&7&8	1:1.58	1	0	40185/2549.5	21.00	19.83	0.619	-0.024	1.31	0.810	/
	Level 6&7&8	1:1.58	1	50	40620/2593	21.00	19.93	0.724	-0.021	1.28	0.926	/
	Level 6&7&8	1:1.58	1	50	41055/2636.5	21.00	19.71	0.734	-0.020	1.35	0.988	/
	Level 6&7&8	1:1.58	1	0	41490/2680	21.00	19.83	0.814	-0.170	1.31	1.066	99
Bottom 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
Back Side	Level 6&7&8	1:1.58	50%	25	39750/2506	21.00	19.60	0.283	-0.028	1.38	0.391	/
Front Side	Level 6&7&8	1:1.58	50%	25	39750/2506	21.00	19.60	0.312	0.031	1.38	0.431	/
Left Edge	Level 6&7&8	1:1.58	50%	25	39750/2506	21.00	19.60	0.072	0.040	1.38	0.099	/



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
Top Edge	Level 6&7&8	1:1.58	50%	25	39750/2506	21.00	19.60	0.548	-0.080	1.38	0.756	/
Bottom 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
Top Edge	Level 6&7&8	1:1.58	100%	0	39750/2506	21.00	19.74	0.569	0.033	1.34	0.761	/
Top Edge	N/A	1:1.58	1	99	39750/2506(P CC)	20.50	19.42	0.729	-0.014	1.28	0.935	/
			1	0	39948/2525.8(SCC)							
Top Edge	Repeated	1:1.58	1	0	41490/2680	21.00	19.83	0.798	-0.020	1.31	1.045	/

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

2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).

Measurement Variability

Test Position	Channel/ Frequency(MHz)	MAX Measured SAR _{1g} (W/kg)	1 st Repeated SAR _{1g} (W/kg)	Ratio
Top Edge	41490/2680	0.814	0.798	1.02

Note: 1) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

2) 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 .

MAX Adjusted SAR

Test Position	Power Reduction	RB allocation	offset	Channel/ Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR _{1g} (mW/g)	Scaling Factor	Full power Report SAR _{1g} (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	50	40620/2593	21.50	21.00	0.407	1.12	0.456	No
Front Side	Level 6&7&8	1	50	40620/2593	21.50	21.00	0.427	1.12	0.479	No
Left Edge	Level 6&7&8	1	50	40620/2593	21.50	21.00	0.079	1.12	0.089	No
Top Edge	Level 6&7&8	1	50	39750/2506	21.50	21.00	0.671	1.12	0.753	No
	Level 6&7&8	1	0	40185/2549.5	21.50	21.00	0.810	1.12	0.909	No
	Level 6&7&8	1	50	40620/2593	21.50	21.00	0.926	1.12	1.039	No
	Level 6&7&8	1	50	41055/2636.5	21.50	21.00	0.988	1.12	1.108	No
	Level 6&7&8	1	0	41490/2680	21.50	21.00	1.066	1.12	1.196	No
Back Side	Level 6&7&8	50%	25	39750/2506	21.50	21.00	0.391	1.12	0.438	No
Front Side	Level 6&7&8	50%	25	39750/2506	21.50	21.00	0.431	1.12	0.483	No
Left Edge	Level 6&7&8	50%	25	39750/2506	21.50	21.00	0.099	1.12	0.112	No
Top Edge	Level 6&7&8	50%	25	39750/2506	21.50	21.00	0.756	1.12	0.849	No
Top Edge	Level 6&7&8	100%	0	39750/2506	21.50	21.00	0.761	1.12	0.853	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 35: LTE Band 66 (20MHz, ANT3)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1	1	50	132072/1720	16.50	15.16	0.430	-0.110	1.36	0.585	/
Left Tilt	Level 1	1:1	1	50	132072/1720	16.50	15.16	0.506	-0.070	1.36	0.689	/
Right Cheek	Level 1	1:1	1	50	132072/1720	16.50	15.16	0.616	-0.070	1.36	0.839	/
	Level 1	1:1	1	0	132322/1745	16.50	15.07	0.589	-0.140	1.39	0.819	/
	Level 1	1:1	1	50	132572/1770	16.50	15.08	0.552	-0.070	1.39	0.765	/
Right Tilt	Level 1	1:1	1	50	132072/1720	16.50	15.16	0.696	-0.060	1.36	0.948	/
	Level 1	1:1	1	0	132322/1745	16.50	15.07	0.719	-0.030	1.39	0.999	/
	Level 1	1:1	1	50	132572/1770	16.50	15.08	0.674	-0.030	1.39	0.935	/
Left Cheek	Level 1	1:1	50%	25	132072/1720	16.50	15.17	0.450	-0.100	1.36	0.611	/
Left Tilt	Level 1	1:1	50%	25	132072/1720	16.50	15.17	0.507	-0.070	1.36	0.689	/
Right Cheek	Level 1	1:1	50%	25	132072/1720	16.50	15.17	0.623	-0.030	1.36	0.846	/
	Level 1	1:1	50%	25	132072/1720	16.50	15.09	0.741	-0.020	1.38	1.025	/
	Level 1	1:1	50%	25	132572/1770	16.50	15.05	0.714	-0.070	1.40	0.997	/
Right Tilt	Level 1	1:1	50%	25	132072/1720	16.50	15.17	0.707	-0.050	1.36	0.960	/
	Level 1	1:1	50%	25	132072/1720	16.50	15.09	0.751	-0.060	1.38	1.039	100
	Level 1	1:1	50%	25	132572/1770	16.50	15.05	0.715	-0.070	1.40	0.998	/
Right Tilt	Level 1	1:1	100%	0	132072/1720	16.50	15.10	0.700	-0.050	1.38	0.966	/
	Level 1	1:1	100%	0	132322/1745	16.50	15.00	0.737	-0.070	1.41	1.041	/
	Level 1	1:1	100%	0	132572/1770	16.50	15.00	0.702	-0.070	1.41	0.992	/
Left Tilt	Level 2&3&4	1:1	50%	25	132072/1720	16.00	14.58	0.426	0.064	1.39	0.591	/
Right Cheek	Level 2&3&4	1:1	50%	25	132072/1720	16.00	14.58	0.581	-0.150	1.39	0.806	/
Right Tilt	Level 2&3&4	1:1	100%	0	132322/1745	16.00	14.54	0.643	0.070	1.40	0.900	/
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level 5	1:1	1	0	132072/1720	20.00	18.77	0.261	0.085	1.33	0.346	/
Front Side	Level 5	1:1	1	0	132072/1720	20.00	18.77	0.270	-0.060	1.33	0.358	/
Back Side	Level 5	1:1	50%	50	132322/1745	20.00	18.67	0.270	0.028	1.36	0.367	/
Front Side	Level 5	1:1	50%	50	132322/1745	20.00	18.67	0.318	-0.020	1.36	0.432	101
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1	1	50	132322/1745	19.50	18.24	0.274	-0.050	1.34	0.366	/
Front Side	Level 6&7&8	1:1	1	50	132322/1745	19.50	18.24	0.225	0.032	1.34	0.301	/
Left Edge	Level 6&7&8	1:1	1	50	132322/1745	19.50	18.24	0.095	0.060	1.34	0.127	/
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
Top Edge	Level 6&7&8	1:1	1	99	132072/1720	19.50	18.23	0.562	0.000	1.34	0.753	/
	Level 6&7&8	1:1	1	50	132322/1745	19.50	18.24	0.600	0.020	1.34	0.802	/
	Level 6&7&8	1:1	1	99	132572/1770	19.50	18.22	0.590	0.020	1.34	0.792	/



Bottom 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
Back Side	Level 6&7&8	1:1	50%	0	132322/1745	19.50	17.86	0.278	0.180	1.46	0.406	/
Front Side	Level 6&7&8	1:1	50%	0	132322/1745	19.50	17.86	0.229	0.120	1.46	0.334	/
Left Edge	Level 6&7&8	1:1	50%	0	132322/1745	19.50	17.86	0.097	0.023	1.46	0.142	/
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
Top Edge	Level 6&7&8	1:1	50%	0	132072/1720	19.50	17.83	0.546	0.020	1.47	0.802	/
	Level 6&7&8	1:1	50%	0	132322/1745	19.50	17.86	0.610	-0.010	1.46	0.890	102
	Level 6&7&8	1:1	50%	0	132572/1770	19.50	17.84	0.608	0.020	1.47	0.891	/
Bottom 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
Top Edge	Level 6&7&8	1:1	100%	0	132072/1720	19.50	17.95	0.557	0.010	1.43	0.796	/

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

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

MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	50	132322/1745	20.00	19.50	0.366	1.12	0.411	No
Front Side	Level 6&7&8	1	50	132322/1745	20.00	19.50	0.301	1.12	0.337	No
Left Edge	Level 6&7&8	1	50	132322/1745	20.00	19.50	0.127	1.12	0.142	No
Top Edge	Level 6&7&8	1	99	132072/1720	20.00	19.50	0.753	1.12	0.845	No
	Level 6&7&8	1	50	132322/1745	20.00	19.50	0.802	1.12	0.900	No
	Level 6&7&8	1	99	132572/1770	20.00	19.50	0.792	1.12	0.889	No
Back Side	Level 6&7&8	50%	0	132322/1745	20.00	19.50	0.406	1.12	0.455	No
Front Side	Level 6&7&8	50%	0	132322/1745	20.00	19.50	0.334	1.12	0.375	No
Left Edge	Level 6&7&8	50%	0	132322/1745	20.00	19.50	0.142	1.12	0.159	No
Top Edge	Level 6&7&8	50%	0	132072/1720	20.00	19.50	0.802	1.12	0.900	No
	Level 6&7&8	50%	0	132322/1745	20.00	19.50	0.890	1.12	0.998	No
	Level 6&7&8	50%	0	132572/1770	20.00	19.50	0.891	1.12	1.000	No
Top Edge	Level 6&7&8	100%	0	132072/1720	20.00	19.50	0.796	1.12	0.893	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 36: NR n5 (EN-DC ANT 1)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Full Power	1	1	166800/834	24.50	24.32	0.003	0.100	1.04	0.004	/
Left Tilt	Full Power	1	1	166800/834	24.50	24.32	0.001	0.100	1.04	0.001	/
Right cheek	Full Power	1	1	166800/834	24.50	24.32	0.001	0.100	1.04	0.001	/
Right Tilt	Full Power	1	1	166800/834	24.50	24.32	0.001	0.047	1.04	0.001	/
Left cheek	Full Power	50	28	167800/839	24.50	24.32	0.005	0.100	1.04	0.005	103
Left Tilt	Full Power	50	28	167800/839	24.50	24.32	0.001	0.100	1.04	0.001	/
Right cheek	Full Power	50	28	167800/839	24.50	24.32	0.001	0.100	1.04	0.001	/
Right Tilt	Full Power	50	28	167800/839	24.50	24.32	0.001	0.000	1.04	0.001	/
Head SAR (CP-OFDM QPSK SCS 15KHz)											
Left cheek	Full Power	1	1	167300/836.5	23.00	22.71	0.003	0.100	1.07	0.004	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Full Power	1	1	166800/834	24.50	24.32	0.036	0.011	1.04	0.038	/
Front Side	Full Power	1	1	166800/834	24.50	24.32	0.032	0.034	1.04	0.033	/
Back Side	Full Power	50	28	167800/839	24.50	24.32	0.038	-0.068	1.04	0.040	104
Front Side	Full Power	50	28	167800/839	24.50	24.32	0.027	0.060	1.04	0.028	/
Body-worn SAR (CP-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Full Power	1	1	167300/836.5	23.00	22.71	0.031	0.031	1.07	0.033	/
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Full Power	1	1	166800/834	24.50	24.32	0.063	0.012	1.04	0.066	/
Front Side	Full Power	1	1	166800/834	24.50	24.32	0.065	0.010	1.04	0.068	/
Left Edge	Full Power	1	1	166800/834	24.50	24.32	0.019	-0.060	1.04	0.020	/
Right Edge	Full Power	1	1	166800/834	24.50	24.32	0.029	-0.050	1.04	0.030	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	1	1	166800/834	24.50	24.32	0.052	-0.070	1.04	0.054	/
Back Side	Full Power	50	28	167800/839	24.50	24.32	0.075	0.061	1.04	0.078	105
Front Side	Full Power	50	28	167800/839	24.50	24.32	0.072	-0.032	1.04	0.075	/
Left Edge	Full Power	50	28	167800/839	24.50	24.32	0.023	0.050	1.04	0.024	/
Right Edge	Full Power	50	28	167800/839	24.50	24.32	0.028	0.034	1.04	0.029	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Full Power	50	28	167800/839	24.50	24.32	0.055	0.029	1.04	0.057	/
Hotspot SAR(CP-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Full Power	1	1	167300/836.5	23.00	22.71	0.072	0.137	1.07	0.077	/

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

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



Table 37: NR n7 (SA&EN-DC ANT 3)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Level 1	1	1	502000/2510	14.50	14.06	0.375	0.030	1.11	0.415	/
Left Tilt	Level 1	1	1	502000/2510	14.50	14.06	0.495	-0.020	1.11	0.548	/
Right cheek	Level 1	1	1	502000/2510	14.50	14.06	0.562	0.040	1.11	0.622	/
Right Tilt	Level 1	1	1	502000/2510	14.50	14.06	0.611	0.020	1.11	0.676	/
Left cheek	Level 1	50%	56	507000/2535	14.50	13.90	0.407	-0.100	1.15	0.467	/
Left Tilt	Level 1	50%	56	507000/2535	14.50	13.90	0.468	-0.130	1.15	0.537	/
Right cheek	Level 1	50%	56	507000/2535	14.50	13.90	0.538	-0.060	1.15	0.618	/
Right Tilt	Level 1	50%	56	507000/2535	14.50	13.90	0.638	-0.080	1.15	0.733	106
Left cheek	Level 2&3&4	50%	28	507000/2535	12.50	12.03	0.248	0.033	1.11	0.276	/
Left Tilt	Level 2&3&4	1	104	502000/2510	12.50	12.05	0.326	-0.090	1.11	0.362	/
Right cheek	Level 2&3&4	1	104	502000/2510	12.50	12.05	0.339	0.040	1.11	0.376	/
Right Tilt	Level 2&3&4	50%	28	507000/2535	12.50	12.03	0.418	0.018	1.11	0.466	/
Head SAR (CP-OFDM QPSK SCS 15KHz)											
Right Tilt	Level 1	1	1	502000/2510	14.50	13.84	0.627	0.160	1.16	0.730	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Level 5	1	1	502000/2510	18.50	18.13	0.140	0.011	1.09	0.152	/
Front Side	Level 5	1	1	502000/2510	18.50	18.13	0.149	0.025	1.09	0.162	107
Back Side	Level 5	50%	56	502000/2510	18.50	18.02	0.138	-0.060	1.12	0.154	/
Front Side	Level 5	50%	56	502000/2510	18.50	18.02	0.036	-0.028	1.12	0.040	/
Body-worn SAR (CP-OFDM QPSK SCS 15KHz, Distance 15mm)											
Front Side	Level 5	1	1	507000/2535	18.50	18.03	0.114	0.031	1.11	0.127	/
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Level 6&7&8	1	1	502000/2510	18.50	18.13	0.283	0.034	1.09	0.308	/
Front Side	Level 6&7&8	1	1	502000/2510	18.50	18.13	0.305	0.015	1.09	0.332	/
Left Edge	Level 6&7&8	1	1	502000/2510	18.50	18.13	0.084	0.038	1.09	0.091	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Level 6&7&8	1	1	502000/2510	18.50	18.13	0.576	-0.092	1.09	0.627	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Back Side	Level 6&7&8	50%	56	502000/2510	18.50	18.02	0.235	0.045	1.12	0.262	/
Front Side	Level 6&7&8	50%	56	502000/2510	18.50	18.02	0.288	0.086	1.12	0.322	/
Left Edge	Level 6&7&8	50%	56	502000/2510	18.50	18.02	0.087	0.012	1.12	0.097	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Level 6&7&8	50%	56	502000/2510	18.50	18.02	0.591	-0.150	1.12	0.660	108
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hotspot SAR(CP-OFDM QPSK SCS 15KHz, Distance 10mm)											



Top Edge	Level 6&7&8	1	1	507000/2535	18.50	18.03	0.576	0.190	1.11	0.642	/
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Note: 1. The value with blue color is the maximum SAR Value of each test band.
2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are \geq 50% limit(1g).



Table 38: NR n41 (SA ANT 3)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Level 1	1	137	523302/2616.51	15.00	14.35	0.413	-0.040	1.16	0.480	/
Left Tilt	Level 1	1	137	523302/2616.51	15.00	14.35	0.557	-0.080	1.16	0.647	/
Right cheek	Level 1	1	137	523302/2616.51	15.00	14.35	0.413	-0.040	1.16	0.480	/
Right Tilt	Level 1	1	137	523302/2616.51	15.00	14.35	0.557	-0.080	1.16	0.647	/
Left cheek	Level 1	50%	0	528000/2640	15.00	14.27	0.407	-0.050	1.18	0.481	/
Left Tilt	Level 1	50%	0	528000/2640	15.00	14.27	0.600	-0.060	1.18	0.710	/
Right cheek	Level 1	50%	0	528000/2640	15.00	14.27	0.575	0.110	1.18	0.680	/
Right Tilt	Level 1	50%	0	528000/2640	15.00	14.27	0.674	-0.010	1.18	0.797	/
Left Tilt	Level 2&3&4	50%	138	528000/2640	14.50	13.77	0.498	0.030	1.18	0.589	/
Head SAR (CP-OFDM QPSK SCS 30KHz)											
Right Tilt	Level 1	1	1	509202/2546.01	15.00	14.11	0.824	0.100	1.23	1.011	/
	Level 1	1	1	518598/2592.99	15.00	14.32	0.762	0.080	1.17	0.891	/
	Level 1	1	1	523302/2616.51	15.00	14.27	0.838	0.060	1.18	0.991	109
Right Tilt	Repeated	1	1	509202/2546.01	15.00	14.11	0.809	-0.014	1.23	0.993	/
Right Tilt	Level 2&3&4	1	137	523302/2616.51	14.50	13.90	0.581	0.018	1.15	0.667	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Level 5	1	137	523302/2616.51	19.00	18.45	0.148	0.029	1.14	0.168	/
Front Side	Level 5	1	137	523302/2616.51	19.00	18.45	0.155	0.100	1.14	0.176	/
Back Side	Level 5	50%	69	523302/2616.51	19.00	18.29	0.121	-0.038	1.18	0.142	/
Front Side	Level 5	50%	69	523302/2616.51	19.00	18.29	0.138	0.025	1.18	0.163	/
Body-worn SAR (CP-OFDM QPSK SCS 30KHz, Distance 15mm)											
Front Side	Level 5	1	1	523302/2616.51	19.00	18.42	0.189	-0.088	1.14	0.216	110
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Level 6&7&8	1	137	523302/2616.51	18.50	17.82	0.282	0.146	1.17	0.330	/
Front Side	Level 6&7&8	1	137	523302/2616.51	18.50	17.82	0.328	0.021	1.17	0.384	/
Left Edge	Level 6&7&8	1	137	523302/2616.51	18.50	17.82	0.070	0.032	1.17	0.082	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Top Edge	Level 6&7&8	1	137	509202/2546.01	18.50	17.56	0.608	-0.010	1.24	0.755	/
	Level 6&7&8	1	1	513900/2569.5	18.50	17.58	0.739	0.014	1.24	0.913	/
	Level 6&7&8	1	1	518598/2592.99	18.50	17.75	0.626	0.080	1.19	0.744	/
	Level 6&7&8	1	137	523302/2616.51	18.50	17.82	0.814	-0.010	1.17	0.952	/
	Level 6&7&8	1	271	528996/2644.98	18.50	17.61	0.805	0.028	1.23	0.988	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Back Side	Level 6&7&8	50%	0	523302/2616.51	18.50	17.75	0.276	-0.090	1.19	0.328	/
Front Side	Level 6&7&8	50%	0	523302/2616.51	18.50	17.75	0.325	0.035	1.19	0.386	/



Left Edge	Level 6&7&8	50%	0	523302/2616.51	18.50	17.75	0.070	0.042	1.19	0.083	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Top Edge	Level 6&7&8	50%	138	509202/2546.01	18.50	17.69	0.728	0.020	1.21	0.877	/
	Level 6&7&8	50%	69	513900/2569.5	18.50	17.55	0.775	0.041	1.24	0.964	/
	Level 6&7&8	50%	138	518598/2592.99	18.50	17.7	0.683	-0.140	1.20	0.821	/
	Level 6&7&8	50%	0	523302/2616.51	18.50	17.75	0.804	-0.090	1.19	0.956	111
	Level 6&7&8	50%	69	528000/2640	18.50	17.74	0.798	0.150	1.19	0.951	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top Edge	Level 6&7&8	100%	0	509202/2546.01	18.50	17.73	0.782	-0.011	1.19	0.934	/
	Level 6&7&8	100%	0	513900/2569.5	18.50	17.43	0.775	0.021	1.28	0.992	/
	Level 6&7&8	100%	0	518598/2592.99	18.50	17.69	0.737	-0.040	1.21	0.888	/
	Level 6&7&8	100%	0	523302/2616.51	18.50	17.48	0.779	0.027	1.26	0.985	/
	Level 6&7&8	100%	0	528000/2640	18.50	17.48	0.787	0.035	1.26	0.995	/
Top Edge	Repeated	100%	0	528000/2640	18.50	17.48	0.782	0.020	1.26	0.989	/
Hotspot SAR(CP-OFDM QPSK SCS 30KHz, Distance 10mm)											
Top Edge	Level 6&7&8	1	1	509202/2546.01	18.50	17.60	0.654	-0.160	1.23	0.805	/
	Level 6&7&8	1	1	513900/2569.5	18.50	17.21	0.729	0.024	1.35	0.981	/
	Level 6&7&8	1	1	518598/2592.99	18.50	17.78	0.753	0.068	1.18	0.889	/
	Level 6&7&8	1	1	523302/2616.51	18.50	17.47	0.680	0.120	1.27	0.862	/
	Level 6&7&8	1	1	528000/2640	18.50	17.38	0.716	-0.094	1.29	0.927	/
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).</p>											

Measurement Variability				
Test Position	Channel/ Frequency(MHz)	MAX Measured SAR _{1g} (W/kg)	1 st Repeated SAR _{1g} (W/kg)	Ratio
Right Tilt	509202/2546.01	0.838	0.809	1.04
Top Edge	528000/2640	0.817	0.812	1.01

Note: 1) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

2) 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.



MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	137	523302/2616.51	19.00	18.50	0.330	1.12	0.370	No
Front Side	Level 6&7&8	1	137	523302/2616.51	19.00	18.50	0.384	1.12	0.430	No
Left Edge	Level 6&7&8	1	137	523302/2616.51	19.00	18.50	0.082	1.12	0.092	No
Top Edge	Level 6&7&8	1	137	509202/2546.01	19.00	18.50	0.755	1.12	0.847	No
	Level 6&7&8	1	1	513900/2569.5	19.00	18.50	0.913	1.12	1.025	No
	Level 6&7&8	1	1	518598/2592.99	19.00	18.50	0.744	1.12	0.835	No
	Level 6&7&8	1	137	523302/2616.51	19.00	18.50	0.952	1.12	1.068	No
	Level 6&7&8	1	271	528996/2644.98	19.00	18.50	0.988	1.12	1.109	No
Back Side	Level 6&7&8	50%	0	523302/2616.51	19.00	18.50	0.328	1.12	0.368	No
Front Side	Level 6&7&8	50%	0	523302/2616.51	19.00	18.50	0.386	1.12	0.433	No
Left Edge	Level 6&7&8	50%	0	523302/2616.51	19.00	18.50	0.083	1.12	0.093	No
Top Edge	Level 6&7&8	50%	138	509202/2546.01	19.00	18.50	0.877	1.12	0.984	No
	Level 6&7&8	50%	69	513900/2569.5	19.00	18.50	0.964	1.12	1.082	No
	Level 6&7&8	50%	138	518598/2592.99	19.00	18.50	0.821	1.12	0.921	No
	Level 6&7&8	50%	0	523302/2616.51	19.00	18.50	0.956	1.12	1.072	No
	Level 6&7&8	50%	69	528000/2640	19.00	18.50	0.951	1.12	1.067	No
Top Edge	Level 6&7&8	100%	0	509202/2546.01	19.00	18.50	0.934	1.12	1.048	No
	Level 6&7&8	100%	0	513900/2569.5	19.00	18.50	0.992	1.12	1.113	No
	Level 6&7&8	100%	0	518598/2592.99	19.00	18.50	0.888	1.12	0.996	No
	Level 6&7&8	100%	0	523302/2616.51	19.00	18.50	0.985	1.12	1.105	No
	Level 6&7&8	100%	0	528000/2640	19.00	18.50	0.995	1.12	1.117	No
Top Edge	Level 6&7&8	1	1	509202/2546.01	19.00	18.50	0.805	1.12	0.903	No
	Level 6&7&8	1	1	513900/2569.5	19.00	18.50	0.981	1.12	1.101	No
	Level 6&7&8	1	1	518598/2592.99	19.00	18.50	0.889	1.12	0.997	No
	Level 6&7&8	1	1	523302/2616.51	19.00	18.50	0.862	1.12	0.967	No
	Level 6&7&8	1	1	528000/2640	19.00	18.50	0.927	1.12	1.040	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 39: NR n5 (EN-DC ANT 0)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Full Power	1	1	166800/834	24.50	23.38	0.173	0.034	1.29	0.224	/
Left Tilt	Full Power	1	1	166800/834	24.50	23.38	0.036	0.087	1.29	0.046	/
Right cheek	Full Power	1	1	166800/834	24.50	23.38	0.249	0.030	1.29	0.322	/
Right Tilt	Full Power	1	1	166800/834	24.50	23.38	0.054	0.144	1.29	0.069	/
Left cheek	Full Power	50	28	167300/836.5	24.50	23.26	0.245	-0.160	1.33	0.326	/
Left Tilt	Full Power	50	28	167300/836.5	24.50	23.26	0.049	0.085	1.33	0.065	/
Right cheek	Full Power	50	28	167300/836.5	24.50	23.26	0.314	0.048	1.33	0.418	112
Right Tilt	Full Power	50	28	167300/836.5	24.50	23.26	0.070	0.073	1.33	0.093	/
Head SAR (CP-OFDM QPSK SCS 15KHz)											
Right cheek	Full Power	1	1	166800/834	23.00	21.85	0.165	0.023	1.30	0.215	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Full Power	1	1	166800/834	24.50	23.38	0.036	0.071	1.29	0.047	/
Front Side	Full Power	1	1	166800/834	24.50	23.38	0.022	0.145	1.29	0.029	/
Back Side	Full Power	50	28	167300/836.5	24.50	23.26	0.060	0.063	1.33	0.080	113
Front Side	Full Power	50	28	167300/836.5	24.50	23.26	0.038	0.088	1.33	0.050	/
Body-worn SAR (CP-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Full Power	1	1	166800/834	23.00	21.85	0.026	0.023	1.30	0.034	/
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Full Power	1	1	166800/834	24.50	23.38	0.076	0.014	1.29	0.098	/
Front Side	Full Power	1	1	166800/834	24.50	23.38	0.057	0.038	1.29	0.074	/
Left Edge	Full Power	1	1	166800/834	24.50	23.38	0.108	-0.025	1.29	0.140	/
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A
Top Edge	Full Power	1	1	166800/834	24.50	23.38	0.015	-0.070	1.29	0.019	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A
Back Side	Full Power	50	28	167300/836.5	24.50	23.26	0.120	0.046	1.33	0.160	/
Front Side	Full Power	50	28	167300/836.5	24.50	23.26	0.085	0.092	1.33	0.113	/
Left Edge	Full Power	50	28	167300/836.5	24.50	23.26	0.145	0.022	1.33	0.193	114
Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A
Top Edge	Full Power	50	28	167300/836.5	24.50	23.26	0.038	-0.024	1.33	0.051	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hotspot SAR(CP-OFDM QPSK SCS 15KHz, Distance 10mm)											
Left Edge	Full Power	1	1	166800/834	23.00	21.85	0.067	0.030	1.30	0.087	/

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

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



Table 40: NR n7 (SA ANT 4)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Full Power	1	1	502000/2510	24.00	23.75	0.059	0.068	1.06	0.063	/
Left Tilt	Full Power	1	1	502000/2510	24.00	23.75	0.053	0.109	1.06	0.056	/
Right cheek	Full Power	1	1	502000/2510	24.00	23.75	0.129	0.026	1.06	0.137	/
Right Tilt	Full Power	1	1	502000/2510	24.00	23.75	0.035	0.023	1.06	0.037	/
Left cheek	Full Power	50%	28	507000/2535	24.00	23.70	0.066	0.053	1.07	0.071	/
Left Tilt	Full Power	50%	28	507000/2535	24.00	23.70	0.054	0.095	1.07	0.057	/
Right cheek	Full Power	50%	28	507000/2535	24.00	23.70	0.137	0.169	1.07	0.147	115
Right Tilt	Full Power	50%	28	507000/2535	24.00	23.70	0.042	0.090	1.07	0.045	/
Head SAR (CP-OFDM QPSK SCS 30KHz)											
Right cheek	Full Power	1	1	512000/2560	23.50	22.71	0.105	-0.030	1.20	0.126	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Level 5	1	53	502000/2510	22.00	21.81	0.172	0.020	1.04	0.180	/
Front Side	Level 5	1	53	502000/2510	22.00	21.81	0.149	0.016	1.04	0.156	/
Back Side	Level 5	50%	0	507000/2535	22.00	21.80	0.096	0.084	1.05	0.101	/
Front Side	Level 5	50%	0	507000/2535	22.00	21.80	0.149	-0.021	1.05	0.156	/
Body-worn SAR (CP-OFDM QPSK SCS 30KHz, Distance 15mm)											
Back Side	Level 5	1	1	507000/2535	22.00	21.72	0.221	0.035	1.07	0.236	116
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Level 6&7&8	1	53	502000/2510	22.00	21.81	0.384	0.060	1.04	0.401	/
Front Side	Level 6&7&8	1	53	502000/2510	22.00	21.81	0.306	0.034	1.04	0.320	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	1	53	502000/2510	22.00	21.81	0.215	-0.082	1.04	0.225	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Level 6&7&8	1	53	502000/2510	22.00	21.81	0.241	0.015	1.04	0.252	/
Back Side	Level 6&7&8	50%	0	507000/2535	22.00	21.80	0.310	0.010	1.05	0.325	/
Front Side	Level 6&7&8	50%	0	507000/2535	22.00	21.80	0.304	0.032	1.05	0.318	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	50%	0	507000/2535	22.00	21.80	0.164	0.035	1.05	0.172	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Level 6&7&8	50%	0	507000/2535	22.00	21.80	0.256	0.029	1.05	0.268	/
Hotspot SAR(CP-OFDM QPSK SCS 30KHz, Distance 10mm)											
Back Side	Level 6&7&8	1	1	507000/2535	22.00	21.72	0.450	0.170	1.07	0.480	117

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

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



Table 41: NR n7 (EN-DC ANT 5)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Level 1	1	53	507000/2535	14.50	14.18	0.672	-0.010	1.08	0.723	118
Left Tilt	Level 1	1	53	507000/2535	14.50	14.18	0.295	0.024	1.08	0.318	/
Right cheek	Level 1	1	53	507000/2535	14.50	14.18	0.258	0.062	1.08	0.278	/
Right Tilt	Level 1	1	53	507000/2535	14.50	14.18	0.102	-0.035	1.08	0.110	/
Left cheek	Level 1	50%	0	507000/2535	14.50	14.08	0.658	0.040	1.10	0.725	/
Left Tilt	Level 1	50%	0	507000/2535	14.50	14.08	0.214	0.049	1.10	0.236	/
Right cheek	Level 1	50%	0	507000/2535	14.50	14.08	0.172	0.013	1.10	0.189	/
Right Tilt	Level 1	50%	0	507000/2535	14.50	14.08	0.085	-0.170	1.10	0.094	/
Left cheek	Repeated	1	1	502000/2510	14.50	14.09	0.651	0.128	1.10	0.715	/
Left cheek	Level 2&3&4	1	53	507000/2535	11.50	11.39	0.364	0.126	1.03	0.373	/
Left Tilt	Level 2&3&4	1	53	507000/2535	11.50	11.39	0.169	0.084	1.03	0.173	/
Right cheek	Level 2&3&4	1	53	507000/2535	11.50	11.39	0.152	0.065	1.03	0.156	/
Right Tilt	Level 2&3&4	1	53	507000/2535	11.50	11.39	0.073	0.029	1.03	0.075	/
Head SAR (CP-OFDM QPSK SCS 15KHz)											
Left cheek	Level 1	1	1	502000/2510	16.50	16.06	1.020	0.022	1.11	1.129	/
	Level 1	1	1	507000/2535	16.50	16.00	0.956	-0.180	1.12	1.073	/
	Level 1	1	1	512000/2560	16.50	15.92	0.973	0.060	1.14	1.112	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Level 5	1	1	507000/2535	20.00	19.68	0.053	0.019	1.08	0.057	/
Front Side	Level 5	1	1	507000/2535	20.00	19.68	0.051	0.034	1.08	0.055	/
Back Side	Level 5	50%	56	502000/2510	20.00	19.65	0.056	0.027	1.08	0.061	/
Front Side	Level 5	50%	56	502000/2510	20.00	19.65	0.057	0.160	1.08	0.062	119
Body-worn SAR (CP-OFDM QPSK SCS 15KHz, Distance 15mm)											
Front Side	Level 5	1	1	502000/2510	20.00	19.53	0.055	0.010	1.11	0.061	/
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Level 6&7&8	1	1	507000/2535	19.00	18.66	0.121	0.013	1.08	0.131	/
Front Side	Level 6&7&8	1	1	507000/2535	19.00	18.66	0.103	-0.050	1.08	0.111	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	1	1	507000/2535	19.00	18.66	0.371	0.042	1.08	0.401	120
Top Edge	Level 6&7&8	1	1	507000/2535	19.00	18.66	0.025	0.021	1.08	0.027	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Back Side	Level 6&7&8	50%	56	502000/2510	19.00	18.63	0.130	0.062	1.09	0.142	/
Front Side	Level 6&7&8	50%	56	502000/2510	19.00	18.63	0.104	0.090	1.09	0.113	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	50%	56	502000/2510	19.00	18.63	0.321	0.033	1.09	0.350	/



Top Edge	Level 6&7&8	50%	56	502000/2510	19.00	18.63	0.020	0.012	1.09	0.022	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Hotspot SAR(CP-OFDM QPSK SCS 15KHz, Distance 10mm)

Right Edge	Level 6&7&8	1	1	502000/2510	19.00	18.65	0.328	-0.040	1.08	0.356	/
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Note: 1. The value with blue color is the maximum SAR Value of each test band.

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

Measurement Variability

Test Position	Channel/ Frequency(MHz)	MAX Measured SAR _{1g} (W/kg)	1 st Repeated SAR _{1g} (W/kg)	Ratio
Left cheek	502000/2510	1.100	1.030	1.07

Note: 1) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was \geq 1.45 W/kg (~ 10% from the 1-g SAR limit).

2) A third repeated measurement was performed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

MAX Adjusted SAR

Test Position	Power Reduction	RB allocation	offset	Channel/ Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR _{1g} (mW/g)	Scaling Factor	Full power Report SAR _{1g} (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	1	507000/2535	20.00	19.00	0.131	1.26	0.165	No
Front Side	Level 6&7&8	1	1	507000/2535	20.00	19.00	0.111	1.26	0.140	No
Right Edge	Level 6&7&8	1	1	507000/2535	20.00	19.00	0.401	1.26	0.505	No
Top Edge	Level 6&7&8	1	1	507000/2535	20.00	19.00	0.027	1.26	0.034	No
Back Side	Level 6&7&8	50%	56	502000/2510	20.00	19.00	0.142	1.26	0.178	No
Front Side	Level 6&7&8	50%	56	502000/2510	20.00	19.00	0.113	1.26	0.143	No
Right Edge	Level 6&7&8	50%	56	502000/2510	20.00	19.00	0.350	1.26	0.440	No
Top Edge	Level 6&7&8	50%	56	502000/2510	20.00	19.00	0.022	1.26	0.027	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 42: NR n41(SA ANT 4)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (DFT-s-OFDM QPSK SCS 15KHz)											
Left cheek	Full Power	1	137	528000/2640	24.00	23.88	0.087	0.025	1.03	0.089	/
Left Tilt	Full Power	1	137	528000/2640	24.00	23.88	0.057	0.043	1.03	0.059	/
Right cheek	Full Power	1	137	528000/2640	24.00	23.88	0.117	0.099	1.03	0.120	121
Right Tilt	Full Power	1	137	528000/2640	24.00	23.88	0.023	0.043	1.03	0.023	/
Left cheek	Full Power	50%	0	513900/2569.5	24.00	22.83	0.001	0.000	1.31	0.001	/
Left Tilt	Full Power	50%	0	513900/2569.5	24.00	22.83	0.001	0.000	1.31	0.001	/
Right cheek	Full Power	50%	0	513900/2569.5	24.00	22.83	0.001	0.000	1.31	0.001	/
Right Tilt	Full Power	50%	0	513900/2569.5	24.00	22.83	0.001	0.000	1.31	0.001	/
Head SAR (CP-OFDM QPSK SCS 30KHz)											
Right cheek	Full Power	1	1	523302/2616.51	22.50	21.91	0.085	0.099	1.15	0.097	/
Body-worn SAR (DFT-s-OFDM QPSK SCS 15KHz, Distance 15mm)											
Back Side	Level 5	1	1	513900/2569.5	21.00	20.93	0.195	-0.160	1.02	0.198	/
Front Side	Level 5	1	1	513900/2569.5	21.00	20.93	0.185	0.023	1.02	0.188	/
Back Side	Level 5	50%	0	513900/2569.5	21.00	20.85	0.183	0.011	1.04	0.189	/
Front Side	Level 5	50%	0	513900/2569.5	21.00	20.85	0.161	0.028	1.04	0.167	/
Body-worn SAR (CP-OFDM QPSK SCS 30KHz, Distance 15mm)											
Back Side	Level 5	1	1	523302/2616.51	21.00	20.92	0.260	-0.130	1.02	0.265	122
Hotspot SAR(DFT-s-OFDM QPSK SCS 15KHz, Distance 10mm)											
Back Side	Level 6&7&8	1	1	513900/2569.5	20.00	19.89	0.226	0.090	1.03	0.232	/
Front Side	Level 6&7&8	1	1	513900/2569.5	20.00	19.89	0.336	0.034	1.03	0.345	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	1	1	513900/2569.5	20.00	19.89	0.092	0.015	1.03	0.094	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Level 6&7&8	1	1	513900/2569.5	20.00	19.89	0.362	0.080	1.03	0.371	123
Back Side	Level 6&7&8	50%	69	509202/2546.01	20.00	19.87	0.224	0.025	1.03	0.231	/
Front Side	Level 6&7&8	50%	69	509202/2546.01	20.00	19.87	0.332	0.011	1.03	0.342	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6&7&8	50%	69	509202/2546.01	20.00	19.87	0.094	-0.042	1.03	0.097	/
Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bottom Edge	Level 6&7&8	50%	69	509202/2546.01	20.00	19.87	0.351	0.013	1.03	0.362	/
Hotspot SAR(CP-OFDM QPSK SCS 30KHz, Distance 10mm)											
Bottom Edge	Level 6&7&8	1	1	513900/2569.5	20.00	19.77	0.245	-0.090	1.05	0.258	/

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

2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).



MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	1	513900/2569.5	21.00	20.00	0.232	1.26	0.292	No
Front Side	Level 6&7&8	1	1	513900/2569.5	21.00	20.00	0.345	1.26	0.434	No
Right Edge	Level 6&7&8	1	1	513900/2569.5	21.00	20.00	0.094	1.26	0.119	No
Bottom Edge	Level 6&7&8	1	1	513900/2569.5	21.00	20.00	0.371	1.26	0.467	No
Back Side	Level 6&7&8	50%	69	509202/2546.01	21.00	20.00	0.231	1.26	0.291	No
Front Side	Level 6&7&8	50%	69	509202/2546.01	21.00	20.00	0.342	1.26	0.431	No
Right Edge	Level 6&7&8	50%	69	509202/2546.01	21.00	20.00	0.097	1.26	0.122	No
Bottom Edge	Level 6&7&8	50%	69	509202/2546.01	21.00	20.00	0.362	1.26	0.455	No
Bottom Edge	Level 6&7&8	1	1	513900/2569.5	21.00	20.00	0.258	1.26	0.325	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 43: LTE(EN-DC) Band 7(ANT 5)

Test Position	Power Reduction	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)											
Left Cheek	Level 1	1	99	20850/2510	16.50	16.37	0.534	0.043	1.03	0.550	124
Left Tilt	Level 1	1	99	20850/2510	16.50	16.37	0.202	0.082	1.03	0.208	/
Right Cheek	Level 1	1	99	20850/2510	16.50	16.37	0.169	0.151	1.03	0.174	/
Right Tilt	Level 1	1	99	20850/2510	16.50	16.37	0.068	0.191	1.03	0.070	/
Left Cheek	Level 1	50%	50	20850/2510	16.50	16.13	0.239	0.118	1.09	0.260	/
Left Tilt	Level 1	50%	50	20850/2510	16.50	16.13	0.207	0.115	1.09	0.225	/
Right Cheek	Level 1	50%	50	20850/2510	16.50	16.13	0.174	-0.092	1.09	0.189	/
Right Tilt	Level 1	50%	50	20850/2510	16.50	16.13	0.066	-0.040	1.09	0.072	/
Left Cheek	Level 2&3&4	1	99	21350/2560	14.50	14.47	0.317	0.032	1.01	0.319	/
Left Tilt	Level 2&3&4	50%	0	20850/2510	14.50	14.42	0.156	0.010	1.02	0.159	/
Right Cheek	Level 2&3&4	50%	0	20850/2510	14.50	14.42	0.105	-0.090	1.02	0.107	/
Right Tilt	Level 2&3&4	50%	0	20850/2510	14.50	14.42	0.039	0.025	1.02	0.040	/
Body-worn SAR (QPSK, Distance 15mm)											
Back Side	Level 5	1	99	20850/2510	20.00	19.81	0.159	0.036	1.04	0.166	/
Front Side	Level 5	1	99	20850/2510	20.00	19.81	0.144	0.025	1.04	0.150	/
Back Side	Level 5	50%	0	21350/2560	20.00	19.60	0.176	0.090	1.10	0.193	125
Front Side	Level 5	50%	0	21350/2560	20.00	19.60	0.137	-0.030	1.10	0.150	/
Hotspot SAR(QPSK, Distance 10mm)											
Back Side	Level 6&7&8	1	50	20850/2510	17.50	17.31	0.462	0.028	1.04	0.483	/
Front Side	Level 6&7&8	1	50	20850/2510	17.50	17.31	0.338	-0.094	1.04	0.353	/
Left Edge	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	N/A
Right Edge	Level 6&7&8	1	50	20850/2510	17.50	17.31	0.568	-0.032	1.04	0.593	/
Top Edge	Level 6&7&8	1	50	20850/2510	17.50	17.31	0.096	0.042	1.04	0.100	/
Bottom Edge	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	N/A
Back Side	Level 6&7&8	50%	50	21350/2560	17.50	17.13	0.355	-0.011	1.09	0.387	/
Front Side	Level 6&7&8	50%	50	21350/2560	17.50	17.13	0.314	0.091	1.09	0.342	/
Left Edge	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	N/A
Right Edge	Level 6&7&8	50%	25	20850/2510	17.50	17.13	0.615	0.032	1.09	0.670	126
Top Edge	Level 6&7&8	50%	50	21350/2560	17.50	17.13	0.114	0.027	1.09	0.124	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are \geq 50% limit(1g).</p>											



MAX Adjusted SAR										
Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1	50	20850/2510	20.00	17.50	0.483	1.78	0.858	No
Front Side	Level 6&7&8	1	50	20850/2510	20.00	17.50	0.353	1.78	0.628	No
Right Edge	Level 6&7&8	1	50	20850/2510	20.00	17.50	0.593	1.78	1.055	No
Bottom Edge	Level 6&7&8	1	50	20850/2510	20.00	17.50	0.100	1.78	0.178	No
Back Side	Level 6&7&8	50%	50	21350/2560	20.00	17.50	0.387	1.78	0.687	No
Front Side	Level 6&7&8	50%	50	21350/2560	20.00	17.50	0.342	1.78	0.608	No
Right Edge	Level 6&7&8	50%	50	21350/2560	20.00	17.50	0.670	1.78	1.191	No
Bottom Edge	Level 6&7&8	50%	50	21350/2560	20.00	17.50	0.124	1.78	0.221	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.

Table 44: LTE (EN-DC) Band 7 (ANT3)

Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
								Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR1g	
Head SAR (QPSK)												
Left Cheek	Level 1	1:1	1	50	21350/2560	13.00	12.09	0.291	0.024	1.23	0.359	/
Left Tilt	Level 1	1:1	1	50	21350/2560	13.00	12.09	0.356	-0.068	1.23	0.439	/
Right Cheek	Level 1	1:1	1	50	21350/2560	13.00	12.09	0.352	0.024	1.23	0.434	/
Right Tilt	Level 1	1:1	1	50	21350/2560	13.00	12.09	0.379	0.035	1.23	0.467	/
Left Cheek	Level 1	1:1	50%	25	21100/2535	13.00	11.86	0.273	-0.010	1.30	0.355	/
Left Tilt	Level 1	1:1	50%	25	21100/2535	13.00	11.86	0.335	0.020	1.30	0.436	/
Right Cheek	Level 1	1:1	50%	25	21100/2535	13.00	11.86	0.392	0.035	1.30	0.510	127
Right Tilt	Level 1	1:1	50%	25	21100/2535	13.00	11.86	0.381	-0.019	1.30	0.495	/
Right Tilt	Level 1	1:1	1	0	21350/2560(PCC)	12.50	11.24	0.336	0.150	1.34	0.449	/
			1	99	21152/2540.2(SCC)							
Body-worn SAR (QPSK, Distance 15mm)												
Back Side	Level 5	1:1	1	0	21350/2560	20.00	18.76	0.213	0.030	1.33	0.283	/
Front Side	Level 5	1:1	1	0	21350/2560	20.00	18.76	0.206	-0.024	1.33	0.274	/
Back Side	Level 5	1:1	50%	50	21350/2560	20.00	18.53	0.276	0.011	1.40	0.387	128
Front Side	Level 5	1:1	50%	50	21350/2560	20.00	18.53	0.214	0.078	1.40	0.300	/
Back Side	Level 5	1:1	1	99	20850/2510(PCC)	19.50	18.10	0.215	-0.020	1.38	0.297	/



			1	0	21048/2529.8(SCC)							
Hotspot SAR(QPSK, Distance 10mm)												
Back Side	Level 6&7&8	1:1	1	50	20850/2510	17.50	16.71	0.352	0.024	1.20	0.422	/
Front Side	Level 6&7&8	1:1	1	50	20850/2510	17.50	16.71	0.358	-0.016	1.20	0.429	/
Left Edge	Level 6&7&8	1:1	1	50	20850/2510	17.50	16.71	0.101	0.028	1.20	0.121	/
Right Edge	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A
Top Edge	Level 6&7&8	1:1	1	50	20850/2510	17.50	16.71	0.495	0.038	1.20	0.594	/
Bottom Edge	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A
Back Side	Level 6&7&8	1:1	50%	25	21100/2535	17.50	16.61	0.389	0.080	1.23	0.477	/
Front Side	Level 6&7&8	1:1	50%	25	21100/2535	17.50	16.61	0.338	0.024	1.23	0.415	/
Left Edge	Level 6&7&8	1:1	50%	25	21100/2535	17.50	16.61	0.108	0.011	1.23	0.133	/
Right Edge	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A
Top Edge	Level 6&7&8	1:1	50%	25	21100/2535	17.50	16.61	0.579	0.035	1.23	0.711	129
Bottom 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
Top Edge	Level 6&7&8	1:1	1	99	21100/2535 (PCC)	17.00	16.03	0.412	0.090	1.25	0.515	/
			1	0	21298/2554.8(SCC)							
Test Position	Power Reduction	Duty Cycle	RB allocation	RB offset	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
								Measured SAR10g	Power Drift (dB)	Scaling Factor	Report SAR10g	
Product Specific 10-g SAR (Distance 0mm)												
Top Edge	Level 5	1:1	1	50	20850/2510	20.00	18.73	1.930	-0.072	1.34	2.586	/
	Level 5	1:1	1	0	21100/2535	20.00	18.69	1.810	0.020	1.35	2.447	/
	Level 5	1:1	1	0	21350/2560	20.00	18.76	1.760	-0.095	1.33	2.342	/
Top Edge	Level 5	1:1	50%	50	20850/2510	20.00	18.53	1.770	0.011	1.40	2.483	/
	Level 5	1:1	50%	50	21100/2535	20.00	18.46	1.830	-0.069	1.43	2.609	/
	Level 5	1:1	50%	50	21350/2560	20.00	18.53	1.700	-0.068	1.40	2.385	/
Top Edge	Level 5	1:1	100%	0	20850/2510	20.00	18.71	1.980	-0.079	1.35	2.665	130
	Level 5	1:1	100%	0	21100/2535	20.00	18.63	1.800	-0.069	1.37	2.468	/
	Level 5	1:1	100%	0	21350/2560	20.00	18.66	1.866	0.125	1.36	2.540	/
Top Edge	Level 5	1:1	1	99	20850/2510(PCC)	19.50	18.10	1.740	0.083	1.38	2.402	/
			1	0	21048/2529.8(SCC)							
Top Edge	Level 6&7&8	1:1	100%	0	20850/2510	17.50	16.36	2.850	-0.010	1.30	1.547	/
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2. For QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are \geq 50% limit(1g).</p>												



MAX Adjusted SAR

Test Position	Power Reduction	RB allocation	offset	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6&7&8	1:1	1	50	20850/2510	20.00	17.50	1.78	0.751	No
Front Side	Level 6&7&8	1:1	1	50	20850/2510	20.00	17.50	1.78	0.764	No
Left Edge	Level 6&7&8	1:1	1	50	20850/2510	20.00	17.50	1.78	0.215	No
Top Edge	Level 6&7&8	1:1	1	50	20850/2510	20.00	17.50	1.78	1.056	No
Back Side	Level 6&7&8	1:1	50%	25	21100/2535	20.00	17.50	1.78	0.849	No
Front Side	Level 6&7&8	1:1	50%	25	21100/2535	20.00	17.50	1.78	0.738	No
Left Edge	Level 6&7&8	1:1	50%	25	21100/2535	20.00	17.50	1.78	0.236	No
Top Edge	Level 6&7&8	1:1	50%	25	21100/2535	20.00	17.50	1.78	1.264	Yes

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 45: Wi-Fi (2.4G) ANT 6

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11b	99.9%	6/2437	15.00	14.96	0.410	-0.130	1.01	0.414	/
Left Tilt	Level 1	802.11b	99.9%	6/2437	15.00	14.96	0.646	-0.050	1.01	0.653	131
Right Cheek	Level 1	802.11b	99.9%	6/2437	15.00	14.96	0.314	0.050	1.01	0.317	/
Right Tilt	Level 1	802.11b	99.9%	6/2437	15.00	14.96	0.318	0.030	1.01	0.321	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11g	99.2%	6/2437	18.50	17.87	0.115	-0.081	1.17	0.134	132
Front Side	Level 5	802.11g	99.2%	6/2437	18.50	17.87	0.092	0.024	1.17	0.107	/
Hotspot SAR(Distance 10mm)											
Back Side	Level 6	802.11b	99.2%	6/2437	12.00	11.32	0.035	-0.120	1.18	0.041	/
Front Side	Level 6	802.11b	99.2%	6/2437	12.00	11.32	0.032	-0.098	1.18	0.038	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6	802.11b	99.2%	6/2437	12.00	11.32	0.019	0.023	1.18	0.022	/
Top Edge	Level 6	802.11b	99.2%	6/2437	12.00	11.32	0.106	0.170	1.18	0.125	133
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

MAX Adjusted SAR							
Mode	Test Position	Channel/Frequency (MHz)	MAX Reported SAR _{1g} (W/kg)	802.11b Tune-up limit (dBm)	Tune-up limit (dBm)	Scaling Factor	Adjusted SAR _{1g} (W/kg)
802.11g	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618
802.11n HT20	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618
802.11n HT40	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618
802.11ac-VHT20	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618
802.11ac-VHT40	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618
802.11ax HE 20	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618
802.11ax HE 40	Left Tilt	6/2437	0.693	15.00	14.50	0.89	0.618

Note: SAR is not required for OFDM when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.



MAX Adjusted SAR										
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.046	4.50	0.208	No
Front Side	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.042	4.50	0.191	No
Right Edge	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.025	4.50	0.113	No
Top Edge	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.140	4.50	0.631	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 46: Wi-Fi (2.4G) ANT 2

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11b	99.9%	6/2437	17.00	16.15	0.324	0.044	1.22	0.394	/
Left Tilt	Level 1	802.11b	99.9%	6/2437	17.00	16.15	0.054	0.047	1.22	0.065	/
Right Cheek	Level 1	802.11b	99.9%	6/2437	17.00	16.15	0.377	0.097	1.22	0.459	134
Right Tilt	Level 1	802.11b	99.9%	6/2437	17.00	16.15	0.028	0.025	1.22	0.034	/
Left Cheek	Level 2	802.11b	99.9%	6/2437	13.00	12.02	0.144	0.091	1.25	0.181	/
Left Tilt	Level 2	802.11b	99.9%	6/2437	13.00	12.02	0.019	0.099	1.25	0.024	/
Right Cheek	Level 2	802.11b	99.9%	6/2437	13.00	12.02	0.159	0.030	1.25	0.199	/
Right Tilt	Level 2	802.11b	99.9%	6/2437	13.00	12.02	0.001	0.000	1.25	0.001	/
Left Cheek	Level 4	802.11g	99.9%	6/2437	10.00	9.16	0.048	0.020	1.22	0.059	/
Left Tilt	Level 4	802.11g	99.9%	6/2437	10.00	9.16	0.001	0.000	1.22	0.001	/
Right Cheek	Level 4	802.11g	99.9%	6/2437	10.00	9.16	0.083	-0.043	1.22	0.102	/
Right Tilt	Level 4	802.11g	99.9%	6/2437	10.00	9.16	0.001	0.000	1.22	0.001	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11b	99.9%	11/2462	18.50	18.13	0.103	0.036	1.09	0.112	135
Front Side	Level 5	802.11b	99.9%	11/2462	18.50	18.13	0.079	-0.015	1.09	0.086	/
Hotspot SAR(Distance 10mm)											
Back Side	Level 6	802.11b	99.9%	6/2437	12.00	11.02	0.053	0.070	1.25	0.066	/
Front Side	Level 6	802.11b	99.9%	6/2437	12.00	11.02	0.044	0.010	1.25	0.055	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 6	802.11b	99.9%	6/2437	12.00	11.02	0.065	0.086	1.25	0.082	136
Top Edge	Level 6	802.11b	99.9%	6/2437	12.00	11.02	0.001	0.000	1.25	0.001	/
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

MAX Adjusted SAR							
Mode	Test Position	Channel/Frequency (MHz)	MAX Reported SAR _{1g} (W/kg)	802.11b Tune-up limit (dBm)	Tune-up limit (dBm)	Scaling Factor	Adjusted SAR _{1g} (W/kg)
802.11g	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515
802.11n HT20	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515
802.11n HT40	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515
802.11ac-VHT20	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515
802.11ac-VHT40	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515
802.11ax HE 20	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515
802.11ax HE 40	Left Tilt	6/2437	0.515	17.00	17.00	1.00	0.515

Note: SAR is not required for OFDM when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS



specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

MAX Adjusted SAR										
Test Position	Power Reduction	Mode	Duty Cycle	Channel/ Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.075	4.47	0.333	No
Front Side	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.062	4.47	0.276	No
Right Edge	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.091	4.47	0.408	No
Top Edge	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.001	4.47	0.006	No
Bottom Edge	Level 6	802.11b	99.2%	6/2437	18.50	12.00	0.001	4.47	0.006	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.



Table 47: Wi-Fi (2.4G) MIMO

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11g	99.2%	6/2437	17.30	17.11	0.513	0.020	1.05	0.540	137
Left Tilt	Level 1	802.11g	99.2%	6/2437	17.30	17.11	0.478	0.130	1.05	0.503	/
Right Cheek	Level 1	802.11g	99.2%	6/2437	17.30	17.11	0.249	-0.050	1.05	0.262	/
Right Tilt	Level 1	802.11g	99.2%	6/2437	17.30	17.11	0.274	0.150	1.05	0.289	/
Left Cheek	Level 4	802.11g	99.2%	6/2437	12.80	12.27	0.154	0.059	1.14	0.176	/
Left Tilt	Level 4	802.11g	99.2%	6/2437	12.80	12.27	0.205	0.030	1.14	0.234	/
Right Cheek	Level 4	802.11g	99.2%	6/2437	12.80	12.27	0.118	0.038	1.14	0.135	/
Right Tilt	Level 4	802.11g	99.2%	6/2437	12.80	12.27	0.093	0.047	1.14	0.105	/
Note: 1. The value with blue color is the maximum SAR Value of each test band.											



Table 48: Wi-Fi (5G,U-NII-1) ANT 9

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11ac-VHT40	99.7%	46/5230	18.50	17.22	0.145	0.012	1.35	0.195	/
Front Side	Level 5	802.11ac-VHT40	99.7%	46/5230	18.50	17.22	0.194	0.132	1.35	0.261	138
Hotspot SAR(Distance 10mm)											
Back Side	Level 7	802.11ac-VHT40	99.7%	46/5230	14.00	12.65	0.061	0.021	1.37	0.083	/
Front Side	Level 7	802.11ac-VHT40	99.7%	46/5230	14.00	12.65	0.088	0.080	1.37	0.120	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 7	802.11ac-VHT40	99.7%	46/5230	14.00	12.65	0.025	-0.032	1.37	0.034	/
Top Edge	Level 7	802.11ac-VHT40	99.7%	46/5230	14.00	12.65	0.146	0.037	1.37	0.200	139
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: 1. The value with blue color is the maximum SAR Value of each test band.
 2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.

MAX Adjusted SAR										
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 7	802.11ac-VHT40	99.7%	46/5230	18.50	14.00	0.083	2.83	0.236	No
Front Side	Level 7	802.11ac-VHT40	99.7%	46/5230	18.50	14.00	0.120	2.83	0.340	No
Right Edge	Level 7	802.11ac-VHT40	99.7%	46/5230	18.50	14.00	0.034	2.83	0.097	No
Top Edge	Level 7	802.11ac-VHT40	99.7%	46/5230	18.50	14.00	0.200	2.83	0.565	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.

Table 49: Wi-Fi (5G,U-NII-2A) ANT 9

Per 248227, for band U-NII-1 and U-NII-2A, when the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11ac-VHT40	99.7%	54/5270	13.50	12.18	0.582	0.027	1.36	0.791	140
Left Tilt	Level 1	802.11ac-VHT40	99.7%	54/5270	13.50	12.18	0.519	0.130	1.36	0.705	/
Right Cheek	Level 1	802.11ac-VHT40	99.7%	54/5270	13.50	12.18	0.375	0.024	1.36	0.510	/
Right Tilt	Level 1	802.11ac-VHT40	99.7%	54/5270	13.50	12.18	0.310	0.042	1.36	0.421	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11ac-VHT40	99.7%	62/5310	18.50	17.18	0.090	0.010	1.36	0.122	/
Front Side	Level 5	802.11ac-VHT40	99.7%	62/5310	18.50	17.18	0.136	-0.139	1.36	0.185	141
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
							Measured SAR10g	Power Drift (dB)	Scaling Factor	Report SAR 10g	
Product Specific 10-g SAR (Distance 0mm)											
Back Side	Level 5	802.11ac-VHT40	99.7%	62/5310	18.50	17.18	0.385	-0.030	1.36	0.523	/
Front Side	Level 5	802.11ac-VHT40	99.7%	62/5310	18.50	17.18	0.667	0.091	1.36	0.907	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 5	802.11ac-VHT40	99.7%	62/5310	19.50	18.34	0.132	0.020	1.31	0.173	/
Top Edge	Level 5	802.11ac-VHT40	99.7%	62/5310	19.50	18.34	0.849	-0.047	1.31	1.112	142
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.



Table 50: Wi-Fi (5G,U-NII-2C) ANT 9

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11n-HT20	99.7%	100/5500	13.50	11.88	0.668	-0.033	1.46	0.973	/
	Level 1	802.11n-HT20	99.7%	116/5580	13.50	12.12	0.642	0.021	1.38	0.885	/
	Level 1	802.11n-HT20	99.7%	140/5700	13.50	12.16	0.730	0.079	1.37	0.997	143
Left Tilt	Level 1	802.11n-HT20	99.7%	100/5500	13.50	11.88	0.579	0.010	1.46	0.843	/
	Level 1	802.11n-HT20	99.7%	116/5580	13.50	12.12	0.603	0.030	1.38	0.831	/
	Level 1	802.11n-HT20	99.7%	140/5700	13.50	12.16	0.651	0.072	1.37	0.889	/
Right Cheek	Level 1	802.11n-HT20	99.7%	140/5700	13.50	12.16	0.431	0.180	1.37	0.589	/
Right Tilt	Level 1	802.11n-HT20	99.7%	140/5700	13.50	12.16	0.417	0.057	1.37	0.569	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11ac-VHT40	99.7%	134/5670	18.50	17.45	0.157	0.038	1.28	0.201	/
Front Side	Level 5	802.11ac-VHT40	99.7%	134/5670	18.50	17.45	0.191	-0.033	1.28	0.244	144
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
							Measured SAR10g	Power Drift (dB)	Scaling Factor	Report SAR 10g	
Product Specific 10-g SAR (Distance 0mm)											
Back Side	Level 5	802.11ac-VHT40	99.7%	134/5670	18.50	17.45	0.587	0.030	1.28	0.750	/
Front Side	Level 5	802.11ac-VHT40	99.7%	134/5670	18.50	17.45	1.050	0.064	1.28	1.341	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 5	802.11ac-VHT40	99.7%	134/5670	18.50	17.45	0.256	0.170	1.28	0.327	/
Top Edge	Level 5	802.11ac-VHT40	99.7%	134/5670	18.50	17.45	1.130	-0.052	1.28	1.443	145
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.



Table 51: Wi-Fi (5G,U-NII-3) ANT 9

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11a	99.2%	165/5825	10.50	9.64	0.489	0.115	1.23	0.601	146
Left Tilt	Level 1	802.11a	99.2%	165/5825	10.50	9.64	0.403	0.180	1.23	0.495	/
Right Cheek	Level 1	802.11a	99.2%	165/5825	10.50	9.64	0.253	0.184	1.23	0.311	/
Right Tilt	Level 1	802.11a	99.2%	165/5825	10.50	9.64	0.240	0.023	1.23	0.295	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11a	99.2%	165/5825	13.50	12.45	0.078	0.026	1.28	0.100	147
Front Side	Level 5	802.11a	99.2%	165/5825	13.50	12.45	0.071	0.015	1.28	0.091	/
Hotspot SAR (Distance 10mm)											
Back Side	Level 7	802.11a	99.2%	165/5825	13.50	12.45	0.058	0.080	1.28	0.074	/
Front Side	Level 7	802.11a	99.2%	165/5825	13.50	12.45	0.085	-0.020	1.28	0.109	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 7	802.11a	99.2%	165/5825	13.50	12.45	0.027	0.016	1.28	0.035	/
Top Edge	Level 7	802.11a	99.2%	165/5825	13.50	12.45	0.089	0.038	1.28	0.114	148
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.</p> <p>Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.</p>											



Table 52: Wi-Fi (5G,U-NII-1) ANT 2

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11n-VHT20	99.7%	36/5180	18.50	17.59	0.062	-0.037	1.24	0.077	149
Front Side	Level 5	802.11n-VHT20	99.7%	36/5180	18.50	17.59	0.057	0.018	1.24	0.070	/
Hotspot SAR(Distance 10mm)											
Back Side	Level 7	802.11n-VHT20	99.7%	36/5180	14.00	12.90	0.026	0.010	1.29	0.034	/
Front Side	Level 7	802.11n-VHT20	99.7%	36/5180	14.00	12.90	0.039	0.038	1.29	0.050	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 7	802.11n-VHT20	99.7%	36/5180	14.00	12.90	0.088	0.022	1.29	0.114	150
Top Edge	Level 7	802.11n-VHT20	99.7%	36/5180	14.00	12.90	0.015	-0.025	1.29	0.019	/
Bottom Edge	Level 7	802.11n-VHT20	99.7%	36/5180	14.00	12.90	0.013	0.059	1.29	0.017	/

Note: 1. The value with blue color is the maximum SAR Value of each test band.
 2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.

MAX Adjusted SAR										
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Full power (dBm)	Tune-up (dBm)	Report SAR1g (mW/g)	Scaling Factor	Full power Report SAR1g (mW/g)	0mm SAR
Back Side	Level 7	802.11n-VHT20	99.7%	36/5180	18.50	14.00	0.034	2.83	0.095	No
Front Side	Level 7	802.11n-VHT20	99.7%	36/5180	18.50	14.00	0.050	2.83	0.142	No
Right Edge	Level 7	802.11n-VHT20	99.7%	36/5180	18.50	14.00	0.114	2.83	0.321	No
Top Edge	Level 7	802.11n-VHT20	99.7%	36/5180	18.50	14.00	0.019	2.83	0.055	No
Bottom Edge	Level 7	802.11n-VHT20	99.7%	36/5180	18.50	14.00	0.017	2.83	0.047	No

Note: According to 648474 D04 Handset SAR v01r03, For Phablet, Since hotspot mode 1-g reported SAR < 1.2 W/kg, Product Specific 10-g SAR is not required.

Table 53: Wi-Fi (5G,U-NII-2A) ANT 2

Per 248227, for band U-NII-1 and U-NII-2A, when the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11n-VHT20	99.7%	64/5320	14.50	13.31	0.484	0.092	1.32	0.638	151
Left Tilt	Level 1	802.11n-VHT20	99.7%	64/5320	14.50	13.31	0.153	0.102	1.32	0.202	/
Right Cheek	Level 1	802.11n-VHT20	99.7%	64/5320	14.50	13.31	0.380	-0.026	1.32	0.501	/
Right Tilt	Level 1	802.11n-VHT20	99.7%	64/5320	14.50	13.31	0.098	0.023	1.32	0.129	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.183	-0.011	1.29	0.235	152
Front Side	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.156	-0.090	1.29	0.201	/
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
							Measured SAR10g	Power Drift (dB)	Scaling Factor	Report SAR 10g	
Product Specific 10-g SAR (Distance 0mm)											
Back Side	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.264	-0.024	1.29	0.340	/
Front Side	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.336	0.081	1.29	0.432	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.841	-0.050	1.29	1.082	153
Top Edge	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.082	0.011	1.29	0.105	/
Bottom Edge	Level 5	802.11ax-HE40	99.7%	54/5270	18.50	17.42	0.011	-0.061	1.29	0.014	N/A
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.</p> <p>Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.</p>											

Table 54: Wi-Fi (5G,U-NII-2C) ANT 2

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11n VHT20	99.7%	140/5700	14.50	13.29	0.192	-0.029	1.33	0.254	154
Left Tilt	Level 1	802.11n VHT20	99.7%	140/5700	14.50	13.29	0.064	0.032	1.33	0.085	/
Right Cheek	Level 1	802.11n VHT20	99.7%	140/5700	14.50	13.29	0.085	-0.051	1.33	0.113	/
Right Tilt	Level 1	802.11n VHT20	99.7%	140/5700	14.50	13.29	0.032	0.033	1.33	0.043	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.213	0.010	1.31	0.279	155
Front Side	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.158	0.032	1.31	0.207	/
Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 4 W/kg (mW/g)				Plot No.
							Measured SAR10g	Power Drift (dB)	Scaling Factor	Report SAR 10g	
Product Specific 10-g SAR (Distance 0mm)											
Back Side	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.156	0.012	1.31	0.204	/
Front Side	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.223	0.030	1.31	0.292	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.696	0.056	1.31	0.912	156
Top Edge	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.016	-0.040	1.31	0.021	/
Bottom Edge	Level 5	802.11n -VHT40	99.7%	102/5510	18.50	17.34	0.010	0.038	1.31	0.013	N/A
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.</p> <p>Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.</p>											



Table 55: Wi-Fi (5G,U-NII-3) ANT 2

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11ax-HE40	99.7%	151/5755	10.50	9.95	0.077	0.048	1.14	0.088	157
Left Tilt	Level 1	802.11ax-HE40	99.7%	151/5755	10.50	9.95	0.001	0.000	1.14	0.001	/
Right Cheek	Level 1	802.11ax-HE40	99.7%	151/5755	10.50	9.95	0.028	0.092	1.14	0.031	/
Right Tilt	Level 1	802.11ax-HE40	99.7%	151/5755	10.50	9.95	0.001	0.000	1.14	0.001	/
Body-worn SAR (Distance 15mm)											
Back Side	Level 5	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.034	-0.094	1.07	0.036	158
Front Side	Level 5	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.025	0.032	1.07	0.027	/
Hotspot SAR (Distance 10mm)											
Back Side	Level 7	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.056	0.018	1.07	0.060	/
Front Side	Level 7	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.042	-0.012	1.07	0.045	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Level 7	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.095	0.037	1.07	0.102	159
Top Edge	Level 7	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.041	0.024	1.07	0.044	/
Bottom Edge	N/A	802.11ax-HE40	99.7%	159/5795	13.50	13.22	0.001	0.099	1.07	0.001	N/A
<p>Note: 1. The value with blue color is the maximum SAR Value of each test band.</p> <p>2.the highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.</p> <p>Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.</p>											



Table 56: Wi-Fi (5G,U-NII-2A) MIMO

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11a	99.2%	52/5260	16.50	15.32	0.302	-0.010	1.32	0.399	160
Left Tilt	Level 1	802.11a	99.2%	52/5260	16.50	15.32	0.247	0.034	1.32	0.327	/
Right Cheek	Level 1	802.11a	99.2%	52/5260	16.50	15.32	0.191	0.062	1.32	0.253	/
Right Tilt	Level 1	802.11a	99.2%	52/5260	16.50	15.32	0.158	0.080	1.32	0.209	/
Left Cheek	Level 3&4	802.11aX-HE 20	99.7%	64/5320	13.50	12.82	0.132	-0.016	1.17	0.155	/
Left Tilt	Level 3&4	802.11aX-HE 20	99.7%	64/5320	13.50	12.82	0.115	-0.029	1.17	0.135	/
Right Cheek	Level 3&4	802.11aX-HE 20	99.7%	64/5320	13.50	12.82	0.068	0.142	1.17	0.080	/
Right Tilt	Level 3&4	802.11aX-HE 20	99.7%	64/5320	13.50	12.82	0.059	0.100	1.17	0.069	/
Note: 1. The value with blue color is the maximum SAR Value of each test band.											



Table 57: Wi-Fi (5G,U-NII-2C) MIMO

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11nHT20	99.7%	140/5700	16.50	15.30	0.484	0.190	1.32	0.640	161
Left Tilt	Level 1	802.11nHT20	99.7%	140/5700	16.50	15.30	0.436	0.097	1.32	0.576	/
Right Cheek	Level 1	802.11nHT20	99.7%	140/5700	16.50	15.30	0.270	0.160	1.32	0.357	/
Right Tilt	Level 1	802.11nHT20	99.7%	140/5700	16.50	15.30	0.241	0.010	1.32	0.319	/
Left Cheek	Level 3&4	802.11ac-VHT40	99.7%	134/5670	13.50	12.85	0.228	0.011	1.17	0.266	/
Left Tilt	Level 3&4	802.11ac-VHT40	99.7%	134/5670	13.50	12.85	0.204	0.025	1.17	0.238	/
Right Cheek	Level 3&4	802.11ac-VHT40	99.7%	134/5670	13.50	12.85	0.142	0.017	1.17	0.165	/
Right Tilt	Level 3&4	802.11ac-VHT40	99.7%	134/5670	13.50	12.85	0.119	-0.029	1.17	0.139	/
Note: 1. The value with blue color is the maximum SAR Value of each test band.											



Table 58: Wi-Fi (5G,U-NII-3) MIMO

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm)	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Level 1	802.11aX-HE 40	99.7%	159/5795	16.50	15.72	0.462	0.126	1.20	0.554	162
Left Tilt	Level 1	802.11aX-HE 40	99.7%	159/5795	16.50	15.72	0.386	0.033	1.20	0.463	/
Right Cheek	Level 1	802.11aX-HE 40	99.7%	159/5795	16.50	15.72	0.260	-0.038	1.20	0.312	/
Right Tilt	Level 1	802.11aX-HE 40	99.7%	159/5795	16.50	15.72	0.239	0.090	1.20	0.287	/
Left Cheek	Level 3&4	802.11ac-VHT20	99.7%	149/5745	13.50	12.84	0.203	0.094	1.17	0.237	/
Left Tilt	Level 3&4	802.11ac-VHT20	99.7%	149/5745	13.50	12.84	0.185	-0.021	1.17	0.216	/
Right Cheek	Level 3&4	802.11ac-VHT20	99.7%	149/5745	13.50	12.84	0.129	0.028	1.17	0.151	/
Right Tilt	Level 3&4	802.11ac-VHT20	99.7%	149/5745	13.50	12.84	0.112	-0.019	1.17	0.131	/
Note: 1. The value with blue color is the maximum SAR Value of each test band.											



Table 59: BT

Test Position	Power Reduction	Mode	Duty Cycle	Channel/Frequency (MHz)	Tune-up dBm	Measured power (dBm)	Limit of SAR 1.6 W/kg (mW/g)				Plot No.
							Measured SAR1g	Power Drift (dB)	Scaling Factor	Report SAR 1g	
Head SAR											
Left Cheek	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.258	0.023	1.79	0.462	/
Left Tilt	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.343	-0.021	1.79	0.614	163
Right Cheek	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.129	0.010	1.79	0.231	/
Right Tilt	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.204	0.031	1.79	0.365	/
Body SAR (Distance 10mm)											
Back Side	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.027	0.070	1.79	0.049	/
Front Side	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.033	0.099	1.79	0.060	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.004	-0.099	1.79	0.006	/
Top Edge	Standard	GFSK	76.9%	39/2441	14.00	12.61	0.075	0.022	1.79	0.135	164
Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Note: 1. The value with blue color is the maximum SAR Value of each test band.											

10.4 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Applicable Combination
WLAN 2.4GHz(Ant 6) + BT	Not Support
WLAN 2.4GHz(Ant 2) + BT	Support
WLAN 2.4GHz MIMO + BT	Not Support
WLAN 5GHz(Ant 9) + BT	Support
WLAN 5GHz(Ant 2) + BT	Support
WLAN 5GHz MIMO + BT	Support
WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 9)	Support
WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 2)	Support
WLAN 2.4GHz (Ant 6) + WLAN 5GHz MIMO	Support
WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 9)	Support
WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 2)	Support
WLAN 2.4GHz (Ant 2) + WLAN 5GHz MIMO	Support
WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 9)	Support
WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 2)	Support
WLAN 2.4GHz MIMO + WLAN 5GHz MIMO	Support
WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 9) + BT	Not Support
WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 2) + BT	Not Support
WLAN 2.4GHz (Ant 6) + WLAN 5GHz MIMO + BT	Not Support
WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 9) + BT	Support
WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 2) + BT	Support
WLAN 2.4GHz (Ant 2) + WLAN 5GHz MIMO + BT	Support
WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 9) + BT	Not Support
WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 2) + BT	Not Support
WLAN 2.4GHz MIMO + WLAN 5GHz MIMO + BT	Not Support
WWAN + WLAN 2.4GHz(Ant 6) + BT	Not Support
WWAN + WLAN 2.4GHz(Ant 2) + BT	Support
WWAN + WLAN 2.4GHz MIMO + BT	Not Support
WWAN + WLAN 5GHz(Ant 9) + BT	Support
WWAN + WLAN 5GHz(Ant 2) + BT	Support
WWAN + WLAN 5GHz MIMO + BT	Support
WWAN + WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 9)	Support
WWAN + WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 2)	Support
WWAN + WLAN 2.4GHz (Ant 6) + WLAN 5GHz MIMO	Support
WWAN + WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 9)	Support
WWAN + WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 2)	Support
WWAN + WLAN 2.4GHz (Ant 2) + WLAN 5GHz MIMO	Support
WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 9)	Support
WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 2)	Support
WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO	Support



WWAN + WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 9) + BT	Not Support
WWAN + WLAN 2.4GHz (Ant 6) + WLAN 5GHz (Ant 2) + BT	Not Support
WWAN + WLAN 2.4GHz (Ant 6) + WLAN 5GHz MIMO + BT	Not Support
WWAN + WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 9) + BT	Support
WWAN + WLAN 2.4GHz (Ant 2) + WLAN 5GHz (Ant 2) + BT	Support
WWAN + WLAN 2.4GHz (Ant 2) + WLAN 5GHz MIMO + BT	Support
WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 9) + BT	Not Support
WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz (Ant 2) + BT	Not Support
WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO + BT	Not Support

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 $< 1.6\text{W/kg}$, simultaneously transmission SAR measurement is not necessary.
 - ii) $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, 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 $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.



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

SAR _{1g/10g} (W/kg)		Ant 1					Ant 4								MAX. SAR _{1g/10g}
		GSM 850	WCDM A 5	LTE 5	LTE 12	LTE 26	GSM 1900	WCDM A 2	WCDM A 4	LTE 2	LTE 7	LTE 38	LTE 41	LTE 66	
Test Position															
Head	Left Cheek	0.143	0.147	0.186	0.169	0.125	0.101	0.159	0.104	0.166	0.108	0.086	0.093	0.147	0.186
	Left Tilt	0.092	0.083	0.108	0.097	0.090	0.047	0.101	0.045	0.102	0.085	0.057	0.033	0.086	0.108
	Right Cheek	0.182	0.112	0.212	0.212	0.158	0.097	0.225	0.121	0.187	0.186	0.010	0.112	0.121	0.225
	Right Tilt	0.093	0.065	0.108	0.100	0.089	0.036	0.073	0.064	0.094	0.042	0.023	0.029	0.070	0.108
Body worn	Back Side	0.281	0.385	0.311	0.330	0.239	0.262	0.308	0.429	0.450	0.429	0.223	0.307	0.501	0.501
	Front Side	0.229	0.360	0.281	0.344	0.258	0.179	0.225	0.356	0.268	0.360	0.166	0.243	0.394	0.394
Hotspot	Back Side	0.869	0.727	0.558	0.521	0.436	0.526	0.758	0.736	0.733	0.846	0.510	0.469	0.773	0.869
	Front Side	0.771	0.615	0.502	0.476	0.403	0.407	0.635	0.587	0.464	0.683	0.369	0.557	0.592	0.771
	Left Edge	0.206	0.143	0.219	0.276	0.203	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.276
	Right Edge	0.228	0.145	0.184	0.168	0.206	0.265	0.353	0.493	0.331	0.367	0.064	0.207	0.544	0.544
	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	0.000
	Bottom Edge	0.487	0.478	0.384	0.404	0.343	0.925	0.984	0.726	1.065	0.682	0.338	0.546	0.877	1.065
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SAR _{1g/10g} (W/kg)		Ant 0					Ant 3								MAX. SAR _{1g/10g}
		GSM 850	WCDM A 5	LTE 5	LTE 12	LTE 26	GSM 1900	WCDM A 2	WCDM A 4	LTE 2	LTE 7	LTE 38	LTE 41	LTE 66	
Test Position															
Head	Left Cheek	0.684	0.715	0.240	0.558	0.678	0.524	0.624	0.656	0.709	0.359	0.537	0.549	0.611	0.715
	Left Tilt	0.140	0.191	0.110	0.103	0.126	0.571	0.541	0.545	0.584	0.439	0.661	0.559	0.591	0.661
	Right Cheek	0.667	0.669	0.255	0.491	0.744	0.696	0.722	0.677	0.728	0.510	0.763	0.639	0.806	0.806
	Right Tilt	0.156	0.270	0.128	0.095	0.213	0.723	0.809	0.753	0.765	0.658	0.711	0.773	0.900	0.900
Body worn	Back Side	0.238	0.325	0.234	0.215	0.228	0.203	0.224	0.333	0.343	0.387	0.178	0.215	0.367	0.387
	Front Side	0.158	0.242	0.177	0.188	0.172	0.174	0.141	0.290	0.238	0.300	0.234	0.248	0.432	0.432
Hotspot	Back Side	0.495	0.469	0.405	0.415	0.394	0.416	0.294	0.462	0.510	0.528	0.433	0.407	0.406	0.528
	Front Side	0.412	0.437	0.309	0.316	0.295	0.446	0.306	0.456	0.520	0.469	0.398	0.431	0.334	0.520
	Left Edge	0.442	0.774	0.582	0.458	0.560	0.051	0.032	0.074	0.055	0.147	0.122	0.099	0.142	0.774
	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	0.002	0.048	0.059	0.033	0.071	0.664	0.566	1.163	0.728	1.035	1.052	1.066	0.891	1.163
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
Product	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



Specific 10-g SAR	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	2.098	N/A	2.062	N/A	N/A	N/A	2.098
	Bottom 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

The maximum SAR_{1g/10g} Value for NR (EN-DC)

SAR _{1g/10g} (W/kg)		EN-DC					EN-DC					EN-DC
		n5 (Ant 0)	LTE 7 (Ant 5)	LTE 7 (Ant 3)	7A_n5A (Ant 0+5)	7A_n5A (Ant 0+3)	n7 (Ant 3)	LTE 5 (Ant 0)	LTE 5 (Ant 1)	5A_n7A (Ant 3+0)	5A_n7A (Ant 3+1)	MAX. SAR _{1g/10g}
Head	Left Cheek	0.326	0.319	0.359	0.645	0.650	0.276	0.240	0.186	0.516	0.462	0.650
	Left Tilt	0.065	0.159	0.439	0.224	0.497	0.362	0.110	0.108	0.472	0.470	0.497
	Right Cheek	0.418	0.107	0.510	0.525	0.882	0.376	0.255	0.212	0.631	0.588	0.882
	Right Tilt	0.093	0.040	0.495	0.133	0.578	0.466	0.128	0.108	0.594	0.574	0.594
Body worn	Back Side	0.080	0.193	0.387	0.273	0.459	0.154	0.234	0.311	0.388	0.465	0.465
	Front Side	0.050	0.150	0.300	0.200	0.345	0.162	0.177	0.281	0.339	0.443	0.443
Hotspot	Back Side	0.160	0.483	0.477	0.643	0.619	0.308	0.405	0.558	0.713	0.866	0.866
	Front Side	0.113	0.353	0.429	0.466	0.53	0.332	0.309	0.502	0.641	0.834	0.834
	Left Edge	0.193	NA	0.133	0.193	0.305	0.097	0.582	0.219	0.679	0.316	0.679
	Right Edge	NA	0.670	NA	0.670	NA	N/A	N/A	0.184	N/A	0.184	0.670
	Top Edge	0.051	0.124	0.711	0.175	0.755	0.660	0.059	N/A	0.719	0.660	0.755
	Bottom Edge	N/A	NA	NA	N/A	N/A	N/A	N/A	0.384	N/A	0.384	0.384
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
	Front Side	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
	Right Edge	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	1.547	N/A	1.547	N/A	N/A	N/A	N/A	N/A	1.547
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: Base on EN-DC DPS function, the EN-DC worse case SAR value falls on LTE band or NR band, only selected highest SAR to evaluation the simulation simultaneous transmission.

SAR _{1g/10g} (W/kg)		EN-DC					EN-DC					EN-DC
		n5 (Ant 1)	LTE 7 (Ant 5)	LTE 7 (Ant 3)	7A_n5A (Ant 1+5)	7A_n5A (Ant 1+3)	n7 (Ant 5)	LTE 5 (Ant 0)	LTE 5 (Ant 1)	5A_n7A (Ant 5+0)	5A_n7A (Ant 5+1)	MAX. SAR _{1g/10g}
Head	Left Cheek	0.005	0.319	0.359	0.324	0.364	0.373	0.240	0.186	0.613	0.559	0.613
	Left Tilt	0.001	0.159	0.439	0.160	0.440	0.173	0.110	0.108	0.283	0.281	0.440
	Right Cheek	0.001	0.107	0.510	0.108	0.511	0.156	0.255	0.212	0.411	0.368	0.511
	Right Tilt	0.001	0.040	0.495	0.041	0.496	0.075	0.128	0.108	0.203	0.183	0.496
Body worn	Back Side	0.040	0.193	0.387	0.233	0.427	0.061	0.234	0.311	0.295	0.372	0.427
	Front Side	0.033	0.150	0.300	0.183	0.333	0.062	0.177	0.281	0.239	0.343	0.343



Hotspot	Back Side	0.078	0.483	0.477	0.561	0.555	0.142	0.405	0.558	0.547	0.700	0.700
	Front Side	0.075	0.353	0.429	0.428	0.504	0.113	0.309	0.502	0.422	0.615	0.615
	Left Edge	0.024	NA	0.133	0.024	0.157	N/A	0.582	0.219	0.582	0.219	0.582
	Right Edge	0.030	0.670	NA	0.700	0.030	0.401	N/A	0.184	0.401	0.585	0.700
	Top Edge	N/A	0.124	0.711	0.124	0.711	0.027	0.059	N/A	0.086	0.027	0.711
	Bottom Edge	0.057	NA	NA	0.057	0.057	N/A	N/A	0.384	N/A	0.384	0.384
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
	Front Side	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
	Right Edge	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	1.547	N/A	1.547	N/A	N/A	N/A	N/A	N/A	1.547
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: Base on EN-DC DPS function, the EN-DC worse case SAR value falls on LTE band or NR band, only selected highest SAR to evaluation the simulation simultaneous transmission.

The maximum SAR_{1g/10g} Value for NR (SA)

SAR _{1g/10g} (W/kg)		SA				SA MAX. SAR _{1g/10g}
		n7 (Ant 3)	n7 (Ant 4)	n41 (Ant 3)	n41 (Ant 4)	
Head	Left Cheek	0.276	0.071	0.481	0.089	0.481
	Left Tilt	0.362	0.057	0.589	0.059	0.589
	Right Cheek	0.376	0.147	0.680	0.120	0.680
	Right Tilt	0.466	0.045	0.667	0.023	0.667
Body worn	Back Side	0.154	0.236	0.168	0.265	0.265
	Front Side	0.162	0.156	0.216	0.188	0.216
Hotspot	Back Side	0.308	0.480	0.330	0.232	0.480
	Front Side	0.332	0.320	0.386	0.345	0.386
	Left Edge	0.097	N/A	0.083	N/A	0.097
	Right Edge	N/A	0.225	N/A	0.097	0.225
	Top Edge	0.660	N/A	0.995	N/A	0.995
	Bottom Edge	N/A	0.268	N/A	0.371	0.371
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	N/A
	Front Side	N/A	N/A	N/A	N/A	N/A
	Left Edge	N/A	N/A	N/A	N/A	N/A
	Right Edge	N/A	N/A	N/A	N/A	N/A
	Top Edge	N/A	N/A	N/A	N/A	N/A
	Bottom Edge	N/A	N/A	N/A	N/A	N/A

Note: Base on EN-DC DPS function, the EN-DC worse case SAR value falls on LTE band or NR band, only selected highest SAR to evaluation the simulation simultaneous transmission.



SAR _{1g/10g} (W/kg)		2G/3G/4G		MAX.	EN-DC		SA SAR _{1g/10g}	MAX.
		SAR _{1g/10g}		2G/3G/4G	SAR _{1g/10g}			EN-DC&SA
Test Position				SAR _{1g/10g}				SAR _{1g/10g}
Head	Left Cheek	0.186	0.715	0.715	0.65	0.613	0.481	0.650
	Left Tilt	0.108	0.661	0.661	0.497	0.440	0.589	0.589
	Right Cheek	0.225	0.806	0.806	0.882	0.511	0.680	0.882
	Right Tilt	0.108	0.900	0.900	0.594	0.496	0.667	0.667
Body worn	Back Side	0.501	0.387	0.501	0.465	0.427	0.265	0.465
	Front Side	0.394	0.432	0.432	0.443	0.343	0.216	0.443
Hotspot	Back Side	0.869	0.528	0.869	0.866	0.700	0.480	0.866
	Front Side	0.771	0.520	0.771	0.834	0.615	0.386	0.834
	Left Edge	0.276	0.774	0.774	0.679	0.582	0.097	0.679
	Right Edge	0.544	0.000	0.544	0.67	0.700	0.225	0.700
	Top Edge	N/A	1.163	1.163	0.755	0.711	0.995	0.995
	Bottom Edge	1.065	N/A	1.065	0.384	0.384	0.371	0.384
Product Specific 10-g SAR	Back Side	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
	Left Edge	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
	Top Edge	N/A	2.098	2.098	1.547	1.547	N/A	1.547
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A

The maximum SAR_{1g/10g} Value for Wi-Fi 2.4G

SAR _{1g/10g} (W/kg)		Wi-Fi 2.4G						Wi-Fi 2.4G MAX. SAR _{1g/10g}
		SISO (Ant 6)	SISO (Ant 2)			MIMO (Ant 6+2)		
			WLAN Use Only	WWAN + WLAN 2.4G	WWAN + WLAN 5G + WLAN2.4G	WLAN Use Only	WWAN + WLAN 5G + WLAN2.4G	
Test Position								
Head	Left Cheek	0.414	0.394	0.181	0.059	0.540	0.176	/
	Left Tilt	0.653	0.065	0.024	0.001	0.503	0.234	/
	Right Cheek	0.317	0.459	0.199	0.102	0.262	0.135	/
	Right Tilt	0.321	0.034	0.001	0.001	0.289	0.105	/
Body worn	Back Side	0.134	0.112			N/A		0.134
	Front Side	0.107	0.086			N/A		0.107
Hotspot	Back Side	0.041	0.066			N/A		0.066
	Front Side	0.038	0.055			N/A		0.055
	Left Edge	N/A	N/A			N/A		N/A
	Right Edge	0.022	0.082			N/A		0.082
	Top Edge	0.125	0.001			N/A		0.125
	Bottom Edge	N/A	N/A			N/A		N/A



Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A
	Front Side	N/A	N/A	N/A	N/A
	Left Edge	N/A	N/A	N/A	N/A
	Right Edge	N/A	N/A	N/A	N/A
	Top Edge	N/A	N/A	N/A	N/A
	Bottom Edge	N/A	N/A	N/A	N/A

The maximum SAR_{1g/10g} Value for Wi-Fi 5G

SAR _{1g/10g} (W/kg)		Wi-Fi (U-NII-1)			Wi-Fi (U-NII-2A)			Wi-Fi (U-NII-2C)			Wi-Fi (U-NII-3)			Wi-Fi 5G
		SISO	SISO	MIMO	SISO	SISO	MIMO	SISO	SISO	MIMO	SISO	SISO	MIMO	MAX.
		(Ant 9)	(Ant 2)	(Ant 9+2)	(Ant 9)	(Ant 2)	(Ant 9+2)	(Ant 9)	(Ant 2)	(Ant 9+2)	(Ant 9)	(Ant 2)	(Ant 9+2)	SAR _{1g/10g}
Body worn	Back Side	0.195	0.077	0.272	0.122	0.235	0.357	0.201	0.279	0.480	0.100	0.036	0.136	0.480
	Front Side	0.261	0.070	0.331	0.185	0.201	0.386	0.244	0.207	0.451	0.091	0.027	0.118	0.451
Hotspot	Back Side	0.083	0.034	0.117	N/A	N/A	N/A	N/A	N/A	N/A	0.074	0.060	0.134	0.134
	Front Side	0.120	0.050	0.170	N/A	N/A	N/A	N/A	N/A	N/A	0.109	0.045	0.154	0.170
	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
	Right Edge	0.034	0.114	0.148	N/A	N/A	N/A	N/A	N/A	N/A	0.035	0.102	0.137	0.148
	Top Edge	0.200	0.019	0.219	N/A	N/A	N/A	N/A	N/A	N/A	0.114	0.044	0.158	0.219
	Bottom Edge	N/A	0.017	0.017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.001	0.001	0.017
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	0.523	0.340	0.863	0.750	0.204	0.954	N/A	N/A	N/A	0.954
	Front Side	N/A	N/A	N/A	0.907	0.432	1.339	1.341	0.292	1.633	N/A	N/A	N/A	1.633
	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
	Right Edge	N/A	N/A	N/A	0.173	1.082	1.255	0.327	0.912	1.239	N/A	N/A	N/A	1.255
	Top Edge	N/A	N/A	N/A	1.112	0.105	1.217	1.443	0.021	1.464	N/A	N/A	N/A	1.464
	Bottom Edge	N/A	N/A	N/A	N/A	0.014	0.014	N/A	0.013	0.013	N/A	N/A	N/A	0.014

SAR _{1g/10g} (W/kg)		Wi-Fi (U-NII-2A)		Wi-Fi (U-NII-2C)		Wi-Fi (U-NII-3)		Wi-Fi 5G	
		MIMO (Ant 9+2)		MIMO (Ant 9+2)		MIMO (Ant 9+2)		MAX. SAR _{1g/10g}	
		WLAN Use Only	WWAN + WLAN 5G & WWAN + WLAN 5G + WLAN2.4G	WLAN Use Only	WWAN + WLAN 5G & WWAN + WLAN 5G + WLAN2.4G	WLAN Use Only	WWAN + WLAN 5G & WWAN + WLAN 5G + WLAN2.4G	WLAN Use Only	WWAN + WLAN 5G & WWAN + WLAN 5G + WLAN2.4G
Head	Left Cheek	0.399	0.155	0.640	0.266	0.554	0.237	0.640	0.266
	Left Tilt	0.327	0.135	0.576	0.238	0.463	0.216	0.576	0.238
	Right Cheek	0.253	0.080	0.357	0.165	0.312	0.151	0.357	0.165
	Right Tilt	0.209	0.069	0.319	0.139	0.287	0.131	0.319	0.139

WLAN Use Only

SAR _{1g/10g} (W/kg)		Wi-Fi 2.4G	Wi-Fi	Wi-Fi 5G	BT	MAX. Σ SAR _{1g/10g}			
		MAX.	2.4G	MAX.		1+3	3+4	2+4	2+3+4
		SAR _{1g/10g}	Ant 2	SAR _{1g/10g}	1				
Test Position		1	2	3	4	1+3	3+4	2+4	2+3+4
Head	Left, Cheek	0.540	0.394	0.640	0.462	1.180	1.102	0.856	1.496
	Left, Tilt	0.503	0.065	0.576	0.614	1.079	1.190	0.679	1.255
	Right, Cheek	0.262	0.459	0.357	0.231	0.619	0.588	0.690	1.047
	Right, Tilt	0.289	0.034	0.319	0.365	0.608	0.684	0.399	0.718
Body worn	Back Side	0.134	0.112	0.480	0.049	0.614	0.529	0.161	0.641
	Front Side	0.107	0.086	0.451	0.060	0.558	0.511	0.146	0.597
Hotspot	Back Side	0.066	0.066	0.134	0.049	0.200	0.183	0.115	0.249
	Front Side	0.055	0.055	0.170	0.060	0.225	0.230	0.115	0.285
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right Edge	0.082	0.082	0.148	0.006	0.230	0.154	0.088	0.236
	Top Edge	0.125	0.001	0.219	0.135	0.344	0.354	0.136	0.355
	Bottom Edge	N/A	N/A	0.017	N/A	0.017	0.017	0.000	0.017
Product Specific 10-g SAR	Back Side	N/A	N/A	0.954	N/A	0.954	0.954	N/A	0.954
	Front Side	N/A	N/A	1.633	N/A	1.633	1.633	N/A	1.633
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right Edge	N/A	N/A	1.255	N/A	1.255	1.255	N/A	1.255
	Top Edge	N/A	N/A	1.464	N/A	1.464	1.464	N/A	1.464
	Bottom Edge	N/A	N/A	0.014	N/A	0.014	0.014	N/A	0.014

Note: 1. The value with blue color is the maximum Σ SAR_{1g/10g} Value.
2. MAX. Σ SAR_{1g/10g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}



WWAN + WLAN 2.4G / WLAN 5G

SAR _{1g/10g} (W/kg)		MAX.	MAX.	Wi-Fi 2.4G	Wi-Fi	Wi-Fi 5G	BT	MAX. ΣSAR _{1g/10g}			
		2G/3G/4G	EN-DC&SA	MAX.	2.4G	MAX.		1+5+6	1+4+6	2+5+6	2+4+6
Test Position		SAR _{1g/10g}	SAR _{1g/10g}	SAR _{1g/10g}	Ant 2	SAR _{1g/10g}	6				
		1	2	3	4	5					
Head	Left, Cheek	0.715	0.650	0.540	0.181	0.266	0.462	1.443	1.358	1.378	1.293
	Left, Tilt	0.661	0.589	0.503	0.024	0.238	0.614	1.513	1.299	1.441	1.227
	Right, Cheek	0.806	0.882	0.262	0.199	0.165	0.231	1.202	1.236	1.278	1.312
	Right, Tilt	0.900	0.667	0.289	0.001	0.139	0.365	1.404	1.266	1.171	1.033
Body worn	Back Side	0.501	0.465	0.134	0.112	0.480	0.049	1.030	0.662	0.994	0.626
	Front Side	0.432	0.443	0.107	0.086	0.451	0.060	0.943	0.578	0.954	0.589
Hotspot	Back Side	0.869	0.866	0.066	0.066	0.134	0.049	1.052	0.984	1.049	0.981
	Front Side	0.771	0.834	0.055	0.055	0.170	0.060	1.001	0.886	1.064	0.949
	Left Edge	0.774	0.679	N/A	N/A	N/A	N/A	0.774	0.774	0.679	0.679
	Right Edge	0.544	0.700	0.082	0.082	0.148	0.006	0.698	0.632	0.854	0.788
	Top Edge	1.163	0.995	0.125	0.001	0.219	0.135	1.517	1.299	1.349	1.131
	Bottom Edge	1.065	0.384	N/A	N/A	0.017	N/A	1.082	1.065	0.401	0.384
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	0.954	N/A	0.954	N/A	0.954	N/A
	Front Side	N/A	N/A	N/A	N/A	1.633	N/A	1.633	N/A	1.633	N/A
	Left Edge	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	1.255	N/A	1.255	N/A	1.255	N/A
	Top Edge	2.098	1.547	N/A	N/A	1.464	N/A	3.562	2.098	3.011	1.547
	Bottom Edge	N/A	N/A	N/A	N/A	0.014	N/A	0.014	N/A	0.014	N/A

Note: 1. The value with blue color is the maximum ΣSAR_{1g/10g} Value.
 2. MAX. ΣSAR_{1g/10g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}



WWAN + WLAN 5G + WLAN2.4G

SAR _{1g/10g} (W/kg)		MAX.	MAX.	Wi-Fi 2.4G	Wi-Fi	Wi-Fi 5G	BT	MAX. ΣSAR _{1g/10g}			
		2G/3G/4G	EN-DC&SA	MAX.	2.4G	MAX.		1+3+5	1+4+5+6	2+3+5	2+4+5+6
Test Position		SAR _{1g/10g}	SAR _{1g/10g}	SAR _{1g/10g}	Ant 2	SAR _{1g/10g}	6				
		1	2	3	4	5					
Head	Left, Cheek	0.715	0.650	0.176	0.059	0.266	0.462	1.157	1.502	1.092	1.437
	Left, Tilt	0.661	0.589	0.234	0.001	0.238	0.614	1.133	1.514	1.061	1.442
	Right, Cheek	0.806	0.882	0.135	0.102	0.165	0.231	1.106	1.304	1.182	1.380
	Right, Tilt	0.900	0.667	0.105	0.001	0.139	0.365	1.144	1.405	0.911	1.172
Body worn	Back Side	0.501	0.465	0.134	0.112	0.480	0.049	1.115	1.142	1.079	1.106
	Front Side	0.432	0.443	0.107	0.086	0.451	0.060	0.990	1.029	1.001	1.040
Hotspot	Back Side	0.869	0.866	0.066	0.066	0.134	0.049	1.069	1.118	1.066	1.115
	Front Side	0.771	0.834	0.055	0.055	0.170	0.060	0.996	1.056	1.059	1.119
	Left Edge	0.774	0.679	N/A	N/A	N/A	N/A	0.774	0.774	0.679	0.679
	Right Edge	0.544	0.700	0.082	0.082	0.148	0.006	0.774	0.780	0.930	0.936
	Top Edge	1.163	0.995	0.125	0.001	0.219	0.135	1.507	1.518	1.339	1.350
	Bottom Edge	1.065	0.384	N/A	N/A	0.017	N/A	1.082	1.082	0.401	0.401
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	0.954	N/A	0.954	0.954	0.954	0.954
	Front Side	N/A	N/A	N/A	N/A	1.633	N/A	1.633	1.633	1.633	1.633
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0
	Right Edge	N/A	N/A	N/A	N/A	1.255	N/A	1.255	1.255	1.255	1.255
	Top Edge	2.098	1.547	N/A	N/A	1.464	N/A	3.562	3.562	3.011	3.011
	Bottom Edge	N/A	N/A	N/A	N/A	0.014	N/A	0.014	0.014	0.014	0.014

Note: 1. The value with blue color is the maximum ΣSAR_{1g/10g} Value.
 2. MAX. ΣSAR_{1g/10g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}

MAX. ΣSAR_{1g} = 1.518 W/kg < 1.6 W/kg and MAX. ΣSAR_{10g} = 3.562 W/kg < 4 W/kg, so the Simultaneous transimtion SAR with volum scan are not required for Wi-Fi and Main-Antenna.



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

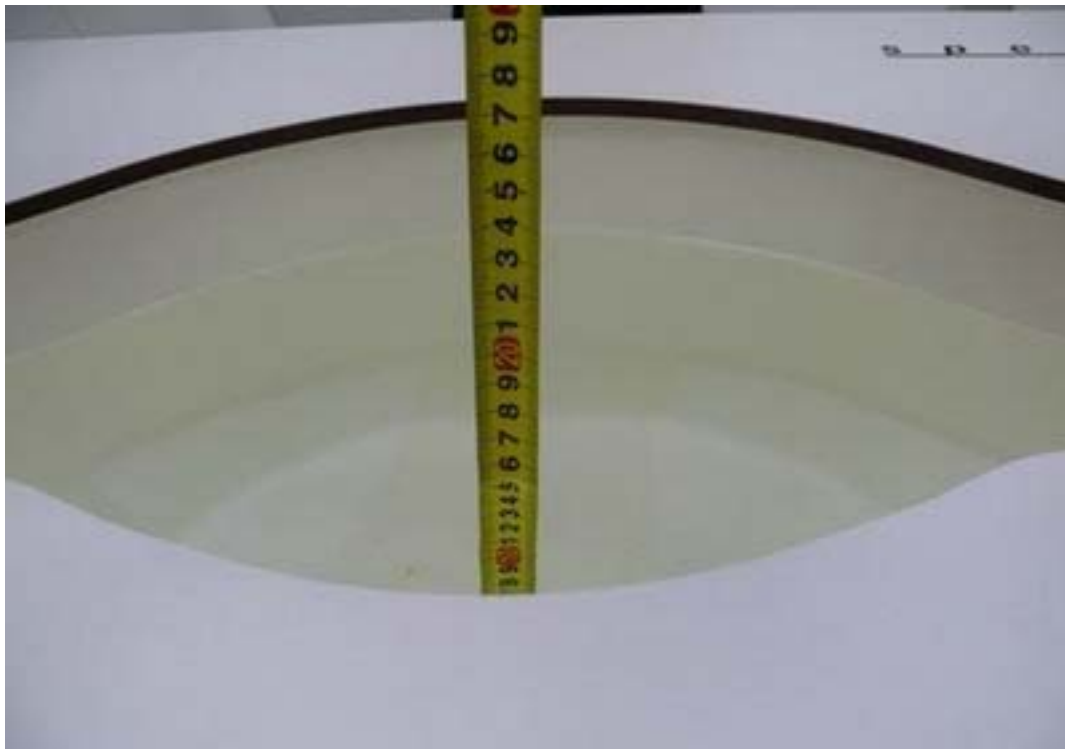


Tissue Simulating Liquids

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: D750V3

Date: 12/4/2020

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

Medium parameters used: $f = 750$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.78, 9.78, 9.78); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

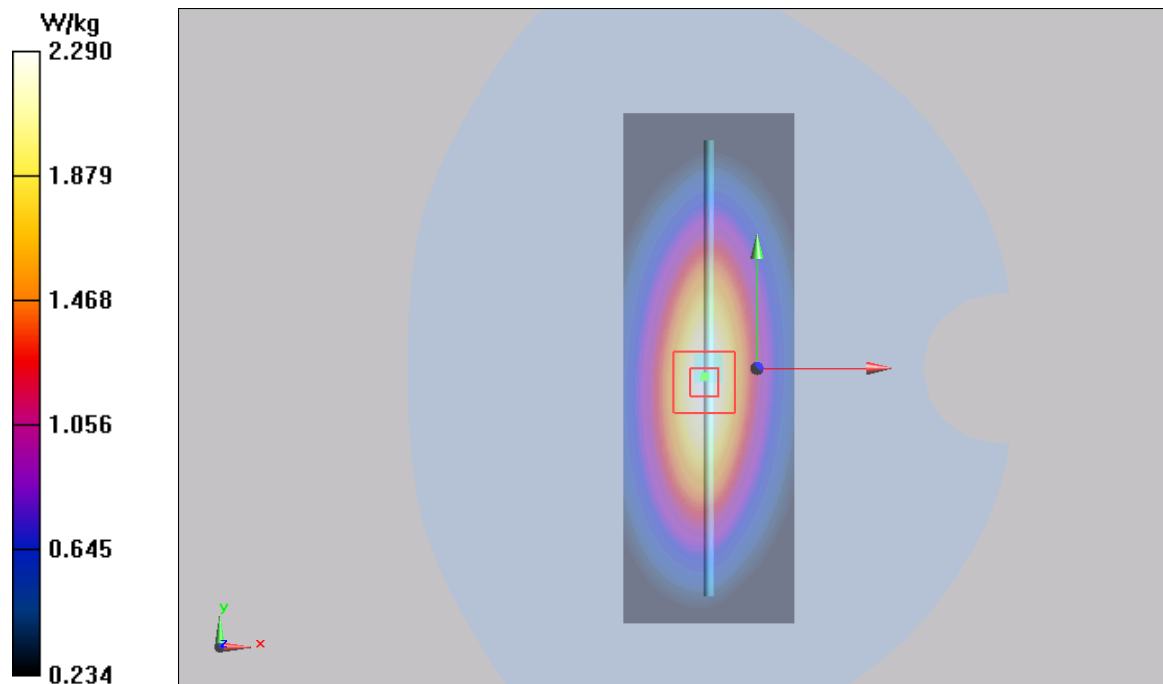
d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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: D835V2**

Date: 12/7/2020

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

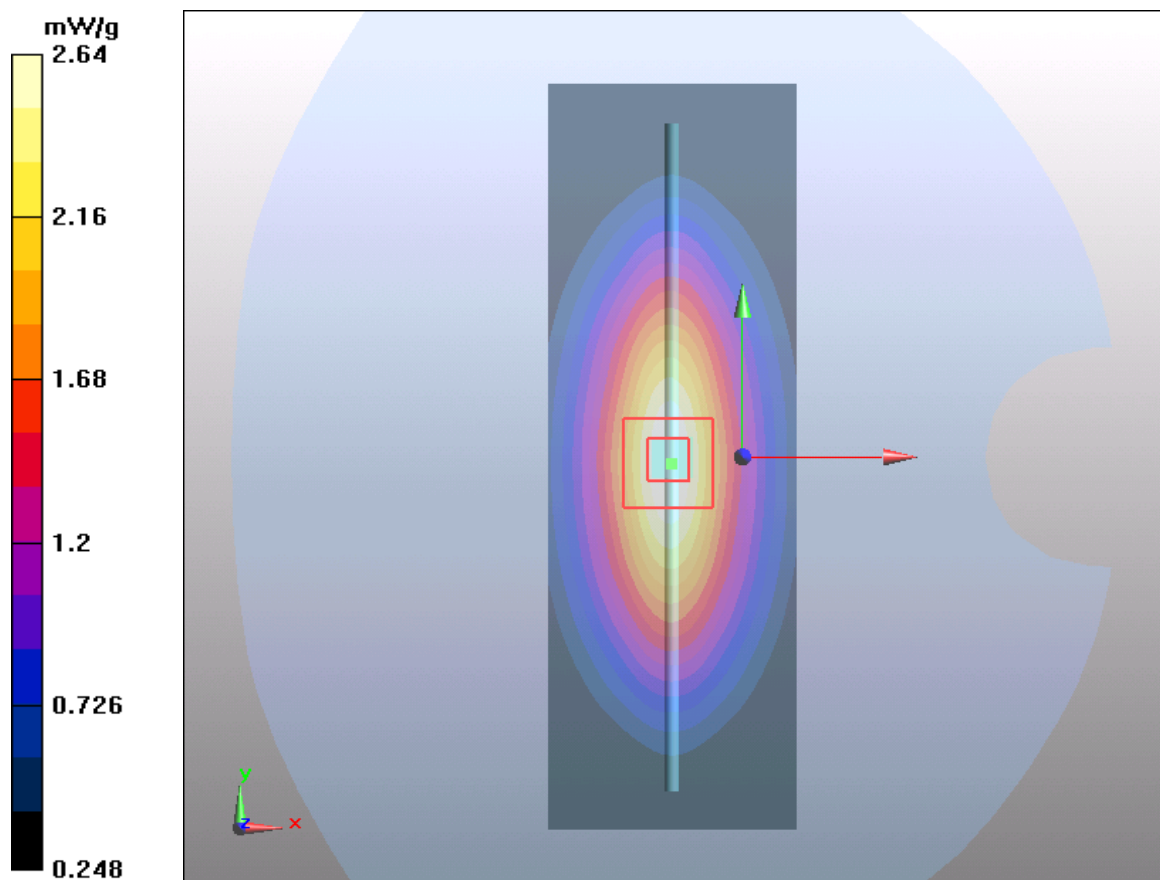
d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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: D835V2

Date: 12/8/2020

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

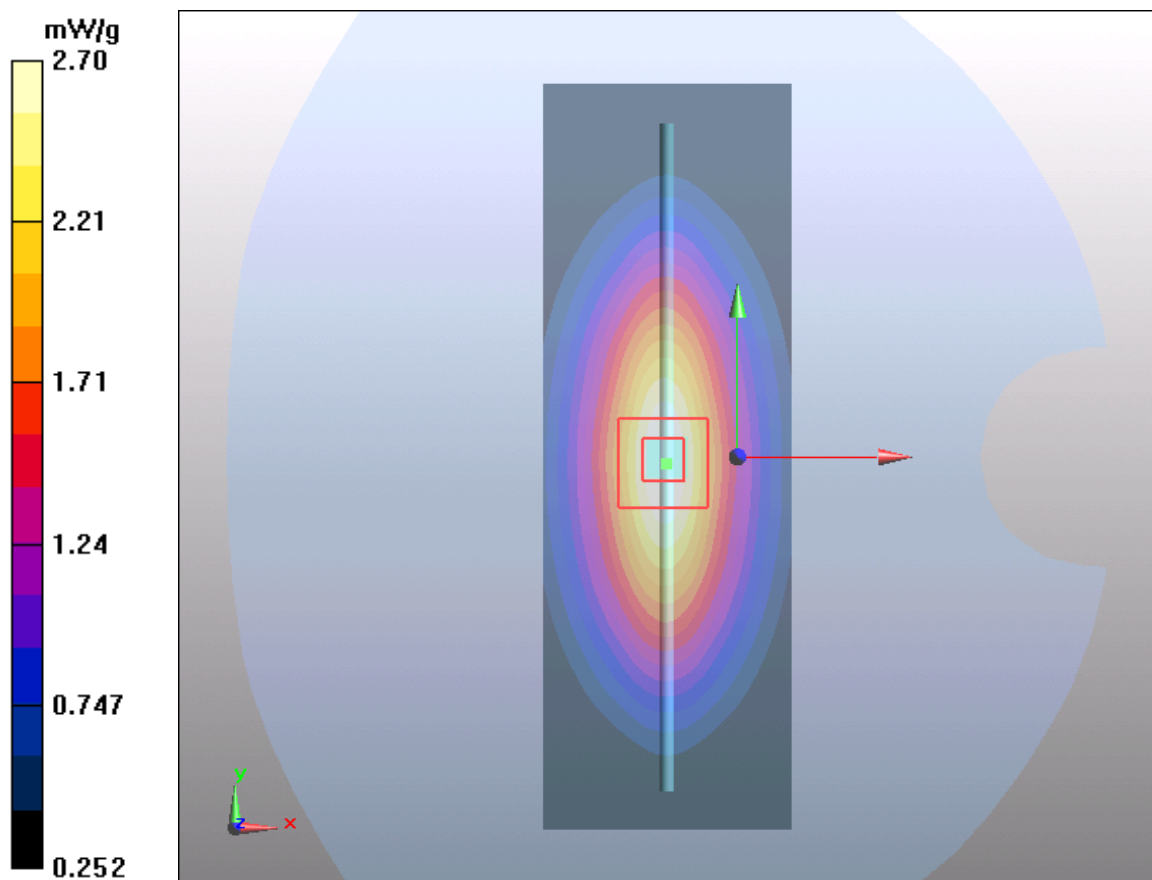
d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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 835 MHz TSL

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

Date: 12/9/2020

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

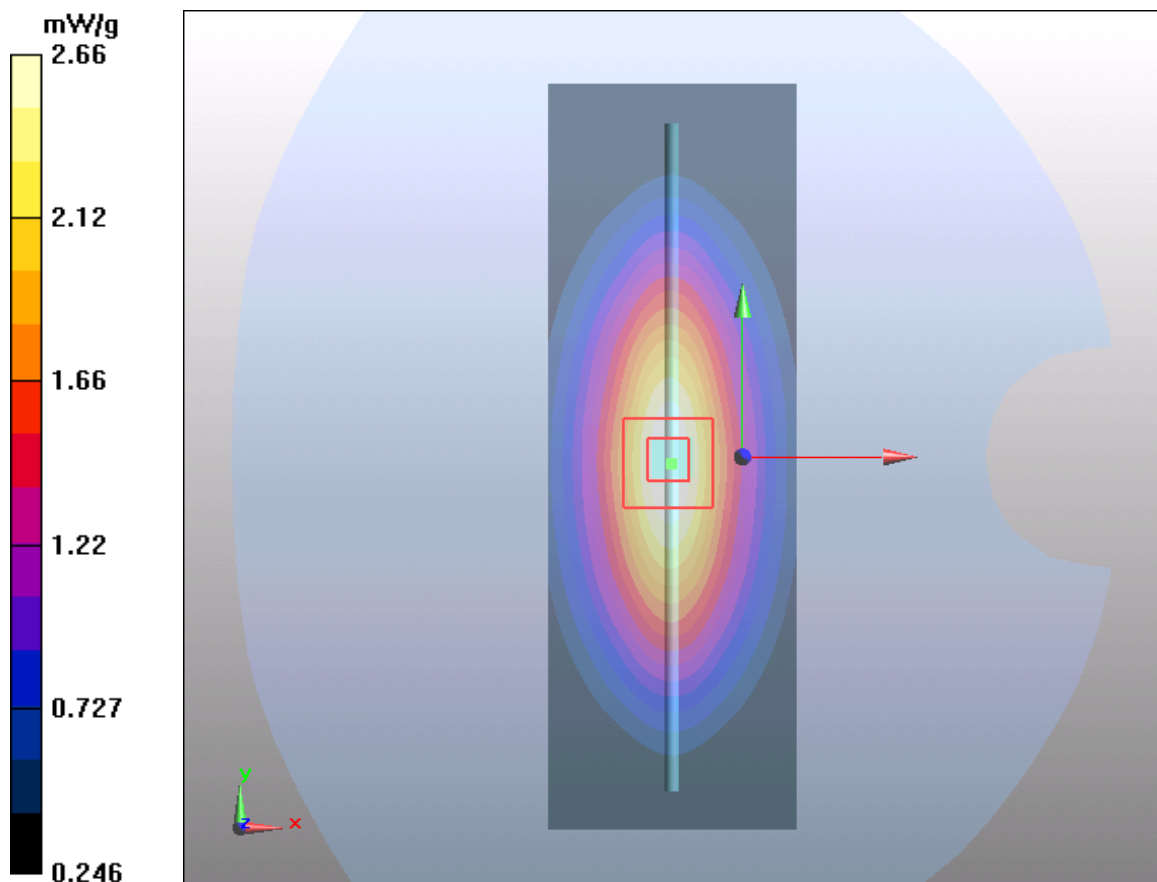
d=15mm, Pin=250mW/Zoom Scan(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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 5 System Performance Check at 1750 MHz TSL

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

Date: 12/5/2020

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

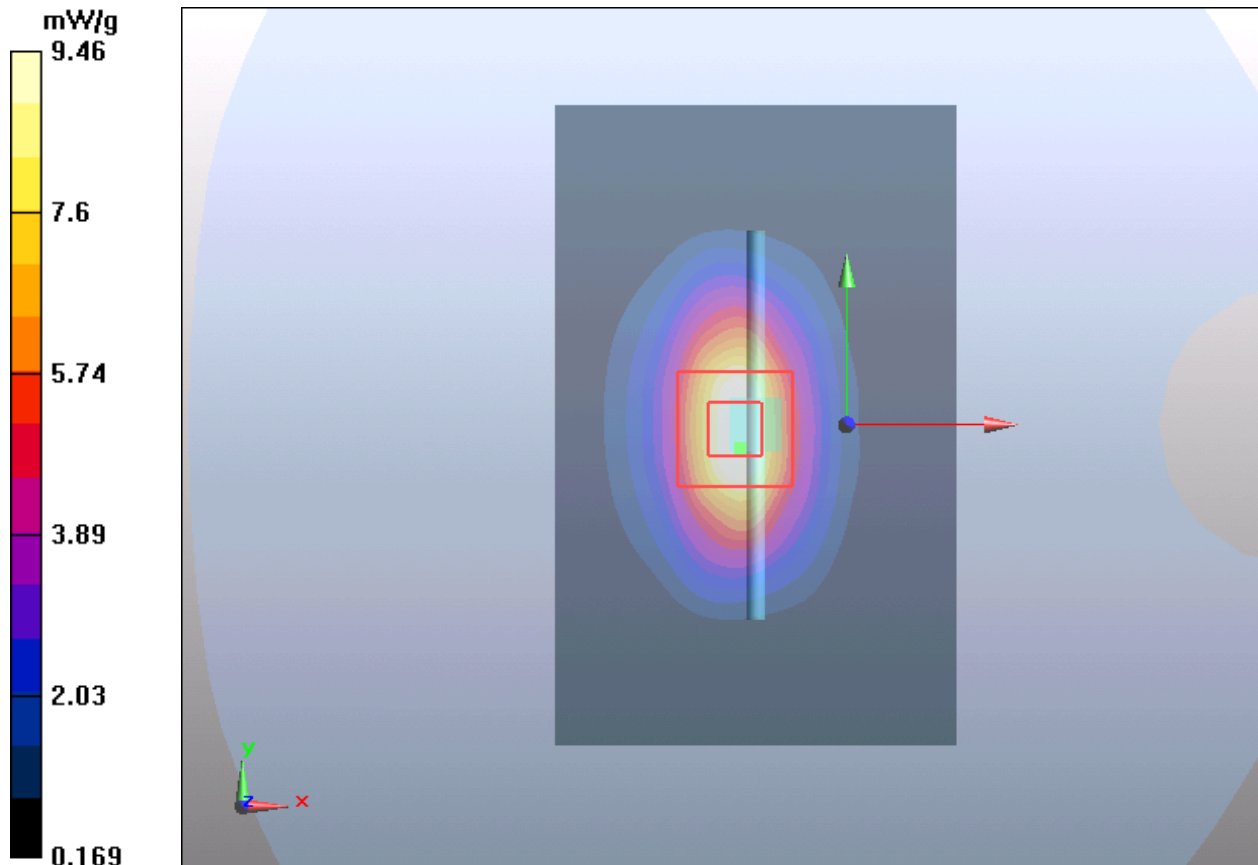
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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 6 System Performance Check at 1750 MHz TSL

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

Date: 12/22/2020

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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,

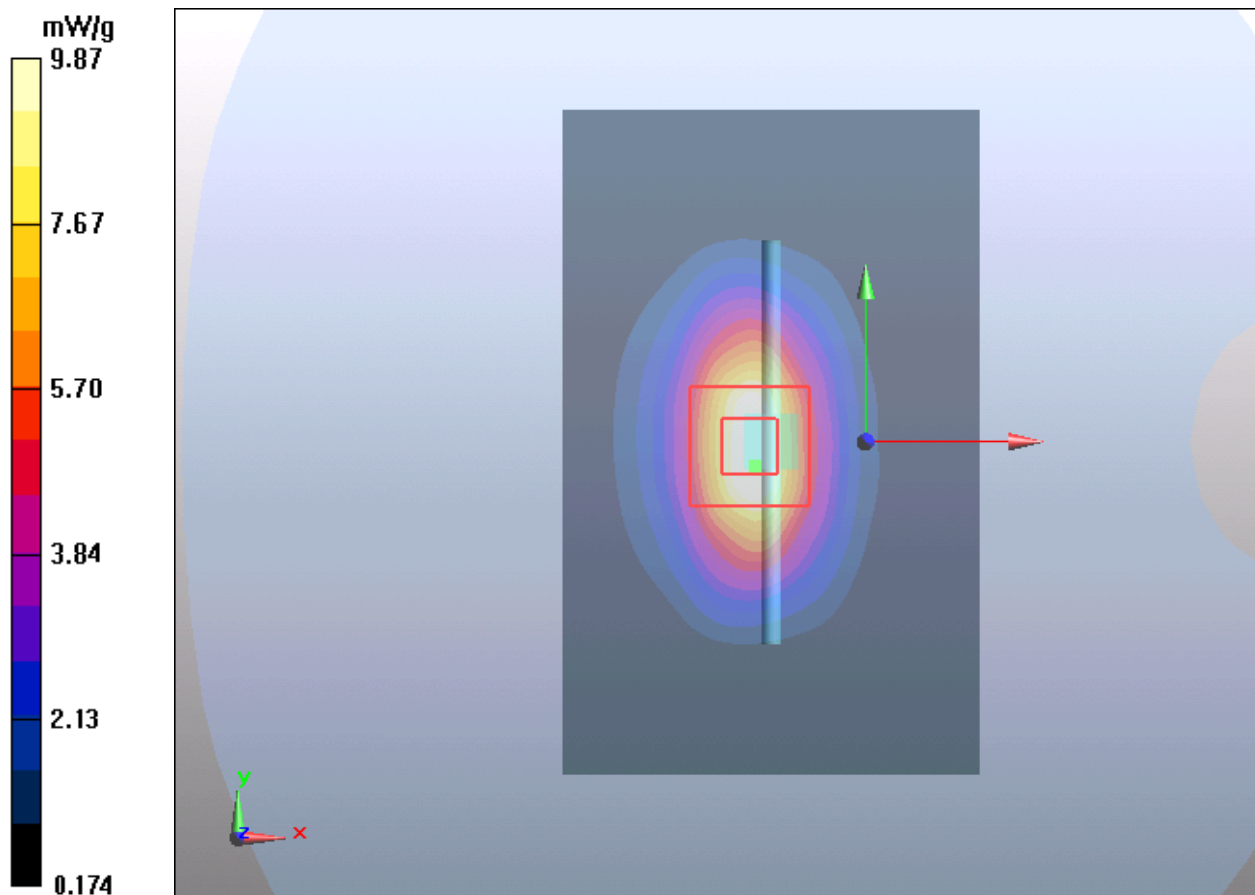
dz=5mm

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 7 System Performance Check at 1750 MHz TSL

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

Date: 12/23/2020

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

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.36 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

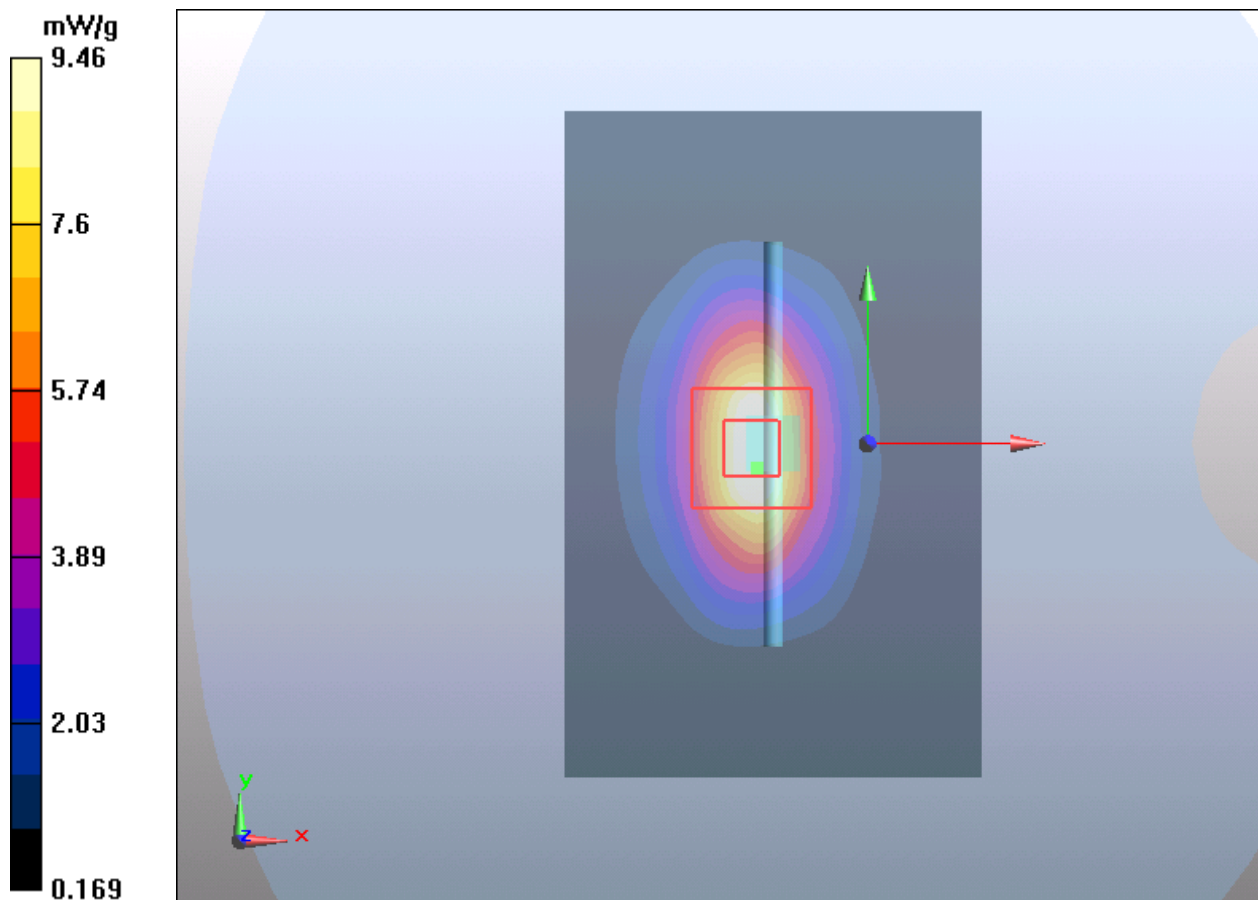
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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 8 System Performance Check at 1900 MHz TSL

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

Date: 12/6/2020

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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,

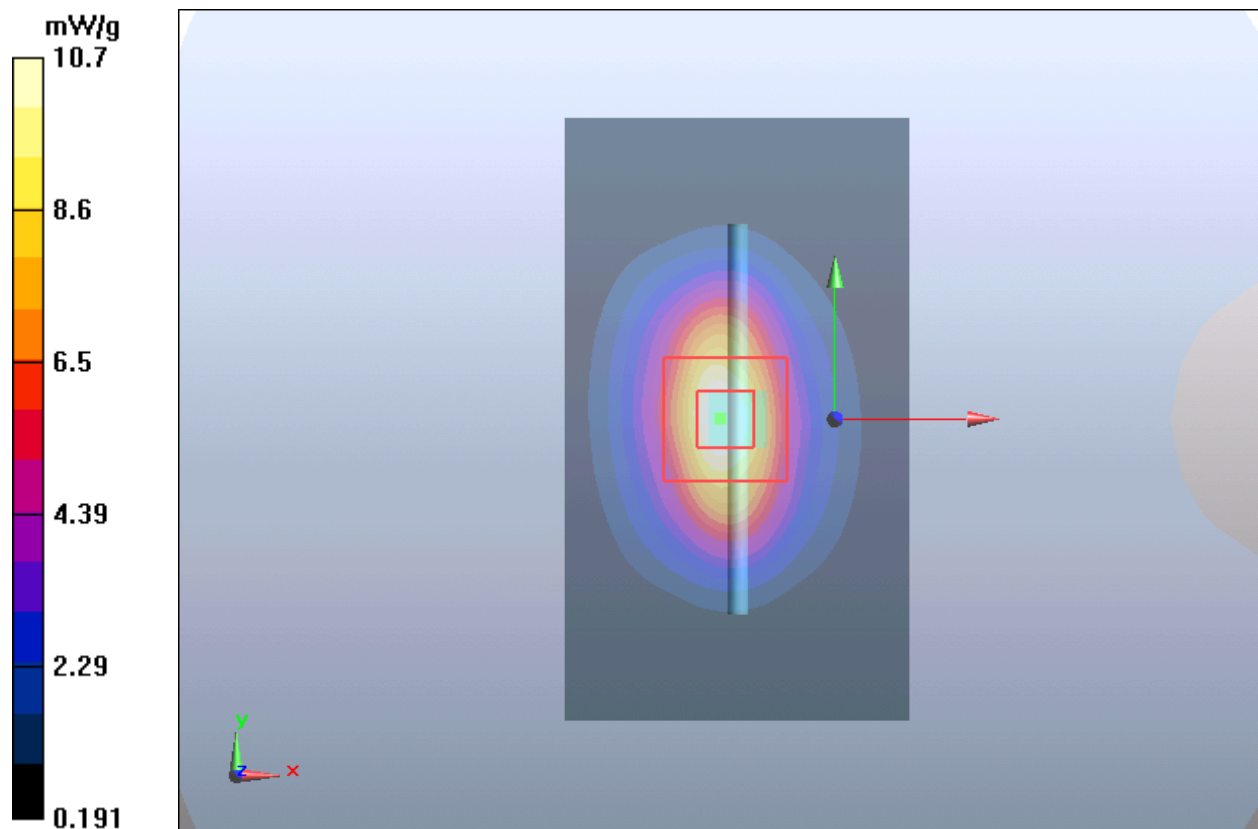
dz=5mm

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: D1900V2

Date: 12/10/2020

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

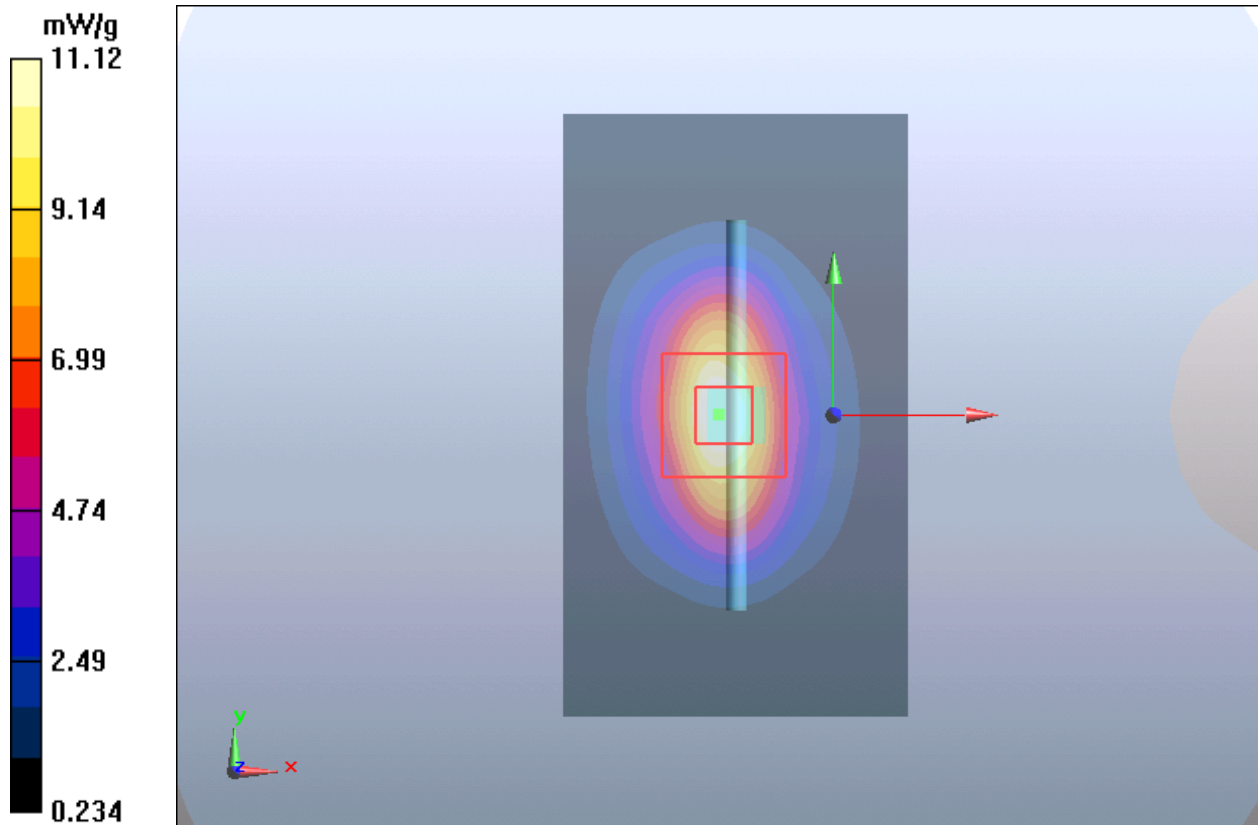
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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: D1900V2

Date: 12/11/2020

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 40.0$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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,

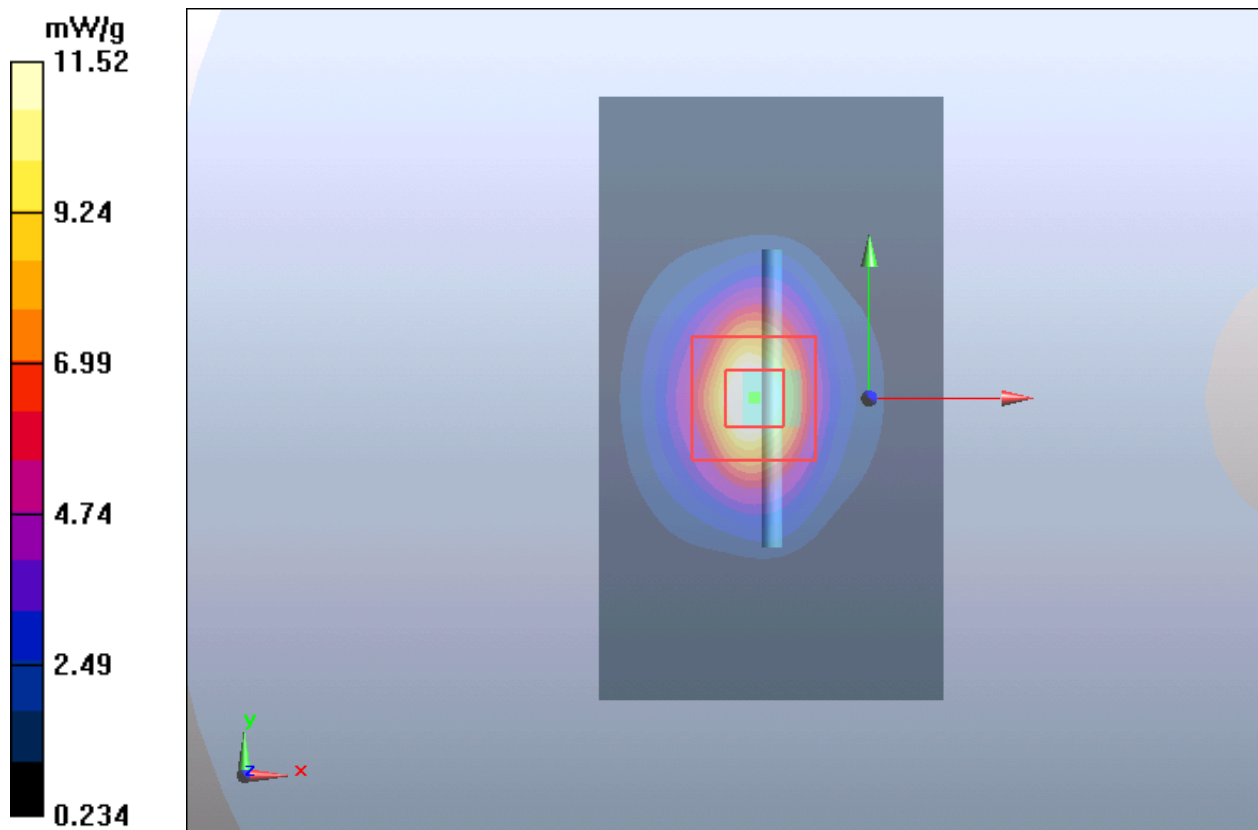
dz=5mm

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

Peak SAR (extrapolated) = 20.1 W/kg

SAR(1 g) = 10.55 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: 12/18/2020

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.54, 7.54, 7.54); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

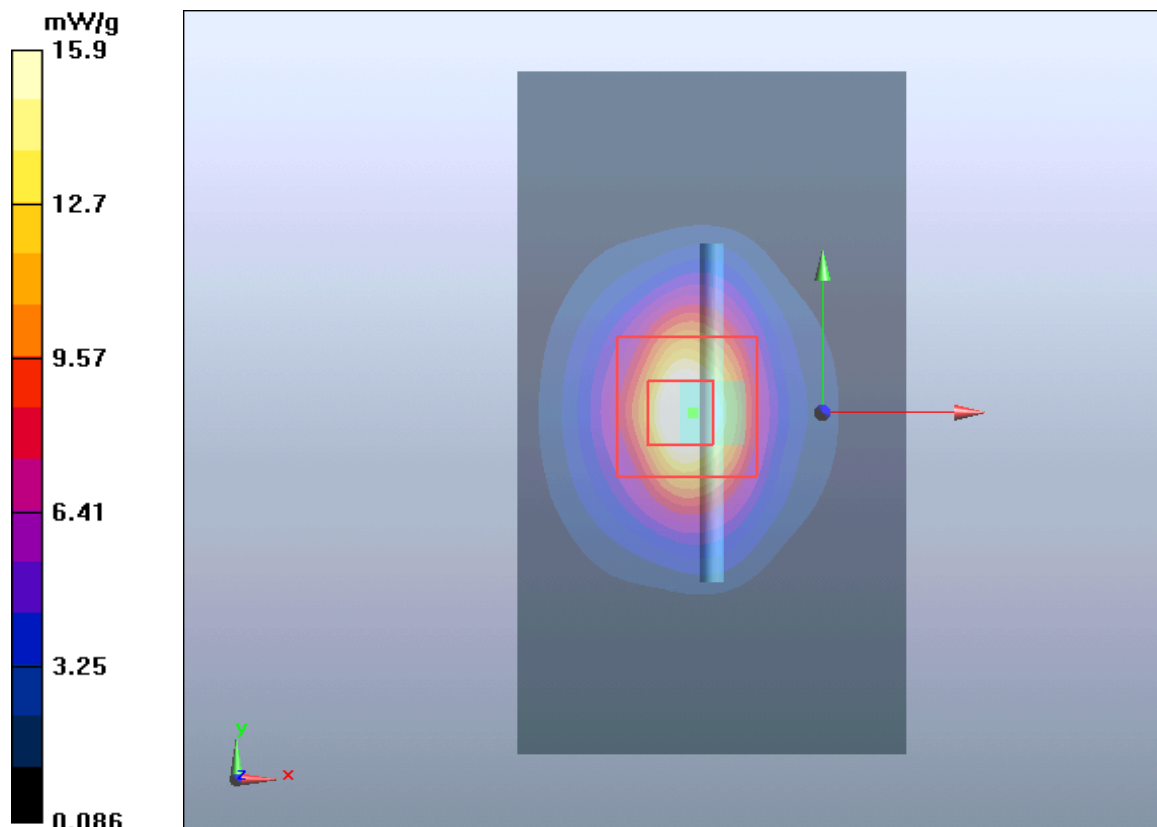
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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: D2600V2**

Date: 12/12/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.7 mW/g

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

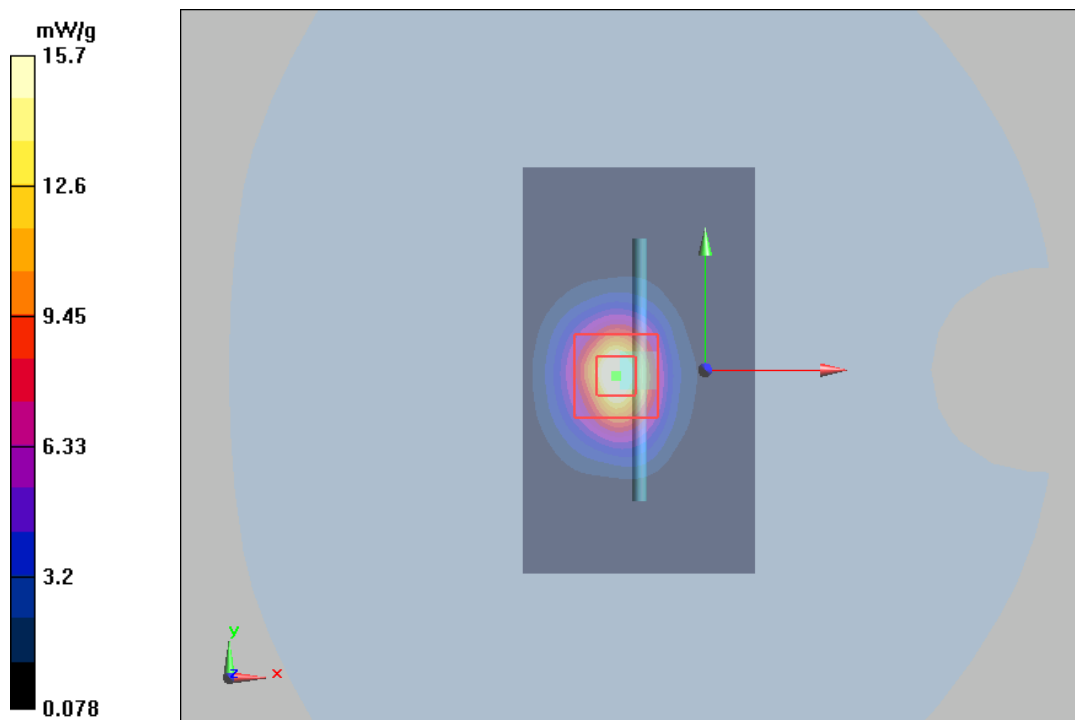
dz=5mm

Reference Value = 74 V/m; Power Drift = -0.0027 dB

Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 13.5 mW/g; SAR(10 g) = 5.99 mW/g

Maximum value of SAR (measured) = 15.7 mW/g



Plot 13 System Performance Check at 2600 MHz TSL

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

Date: 12/13/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

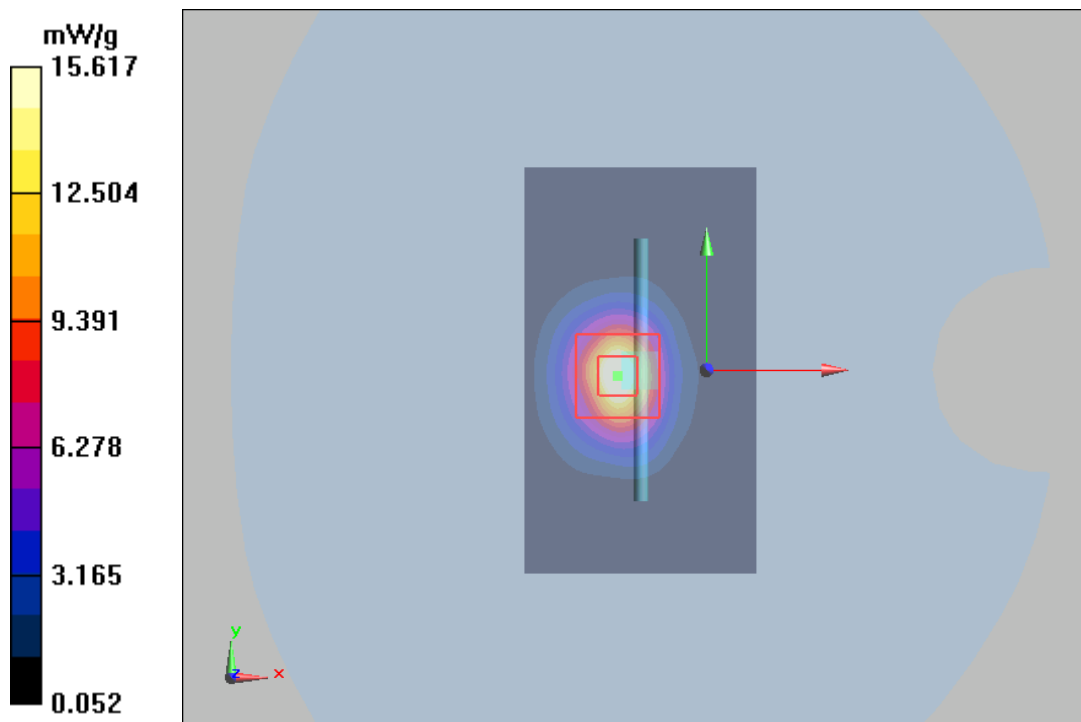
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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 14 System Performance Check at 2600 MHz TSL**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2**

Date: 12/16/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

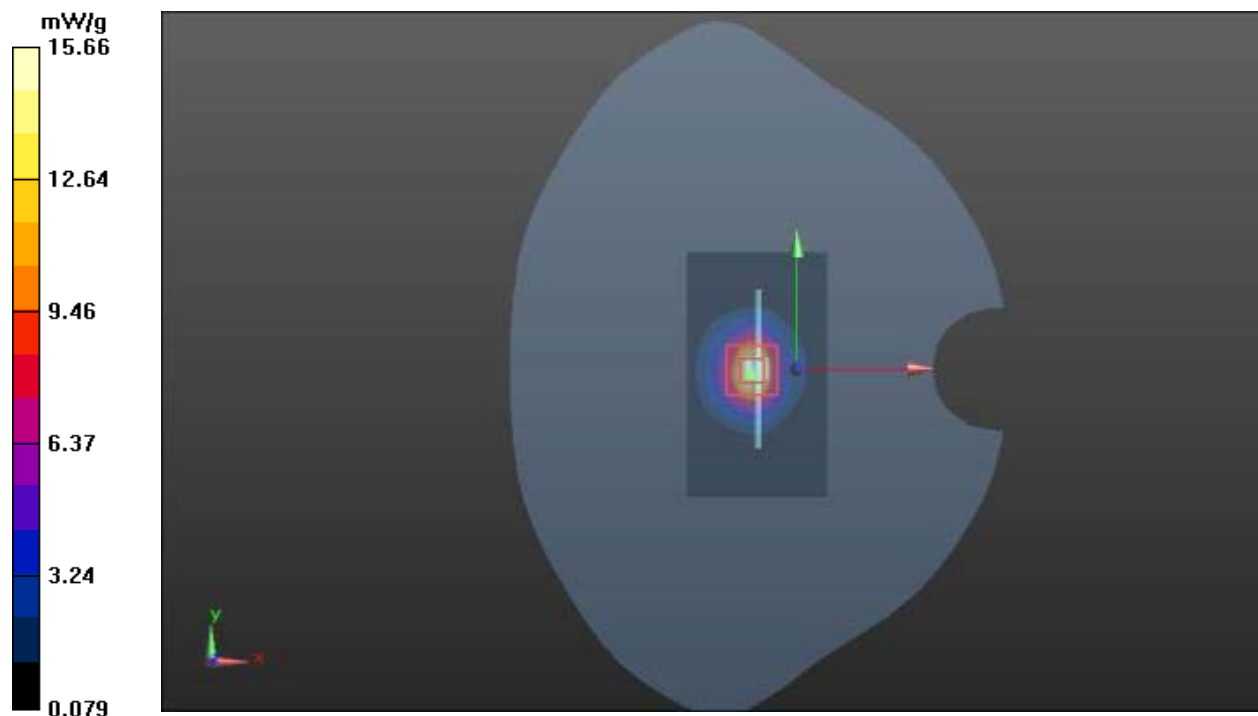
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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 15 System Performance Check at 2600 MHz TSL

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

Date: 12/19/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

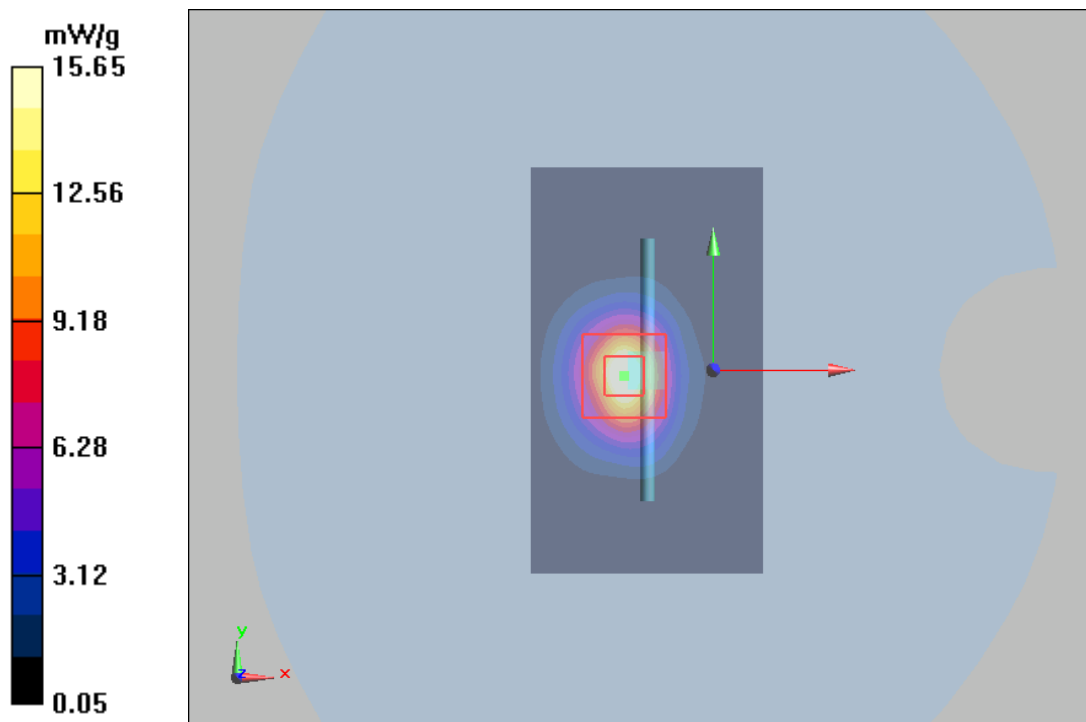
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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 16 System Performance Check at 2600 MHz TSL**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2**

Date: 12/21/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

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

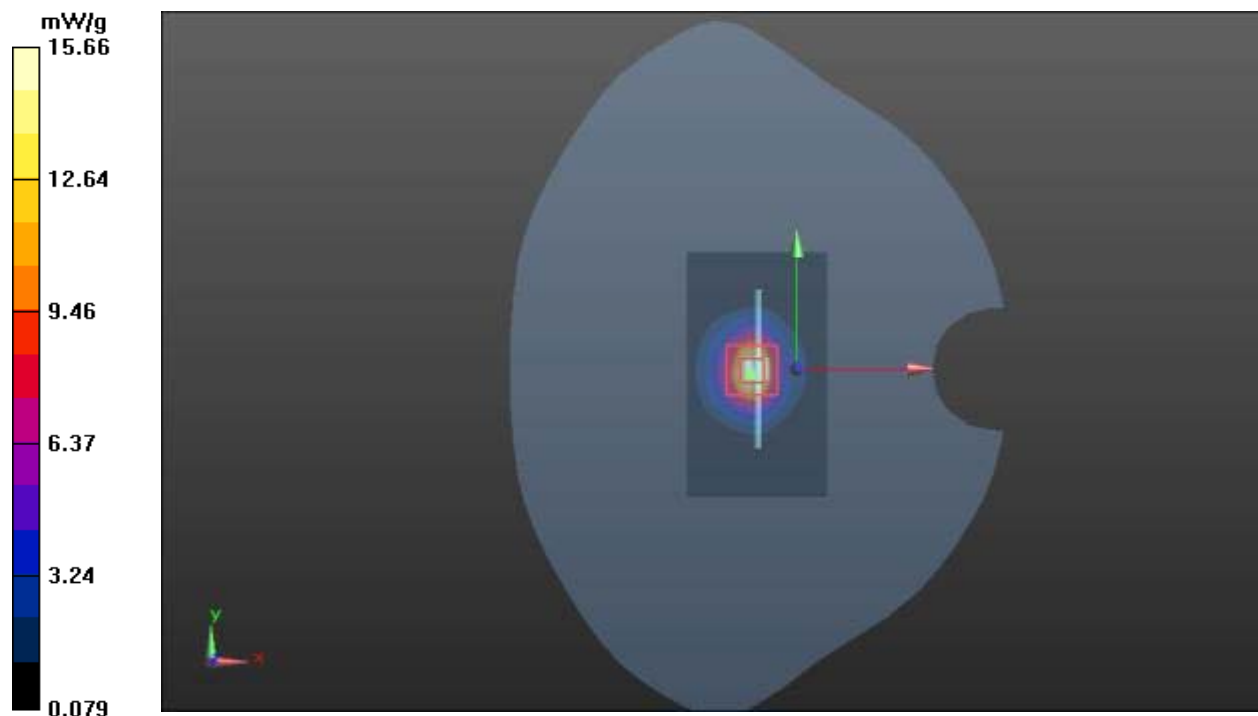
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 31.858 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.09 mW/g

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



Plot 17 System Performance Check at 2600 MHz TSL**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2**

Date: 12/24/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

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

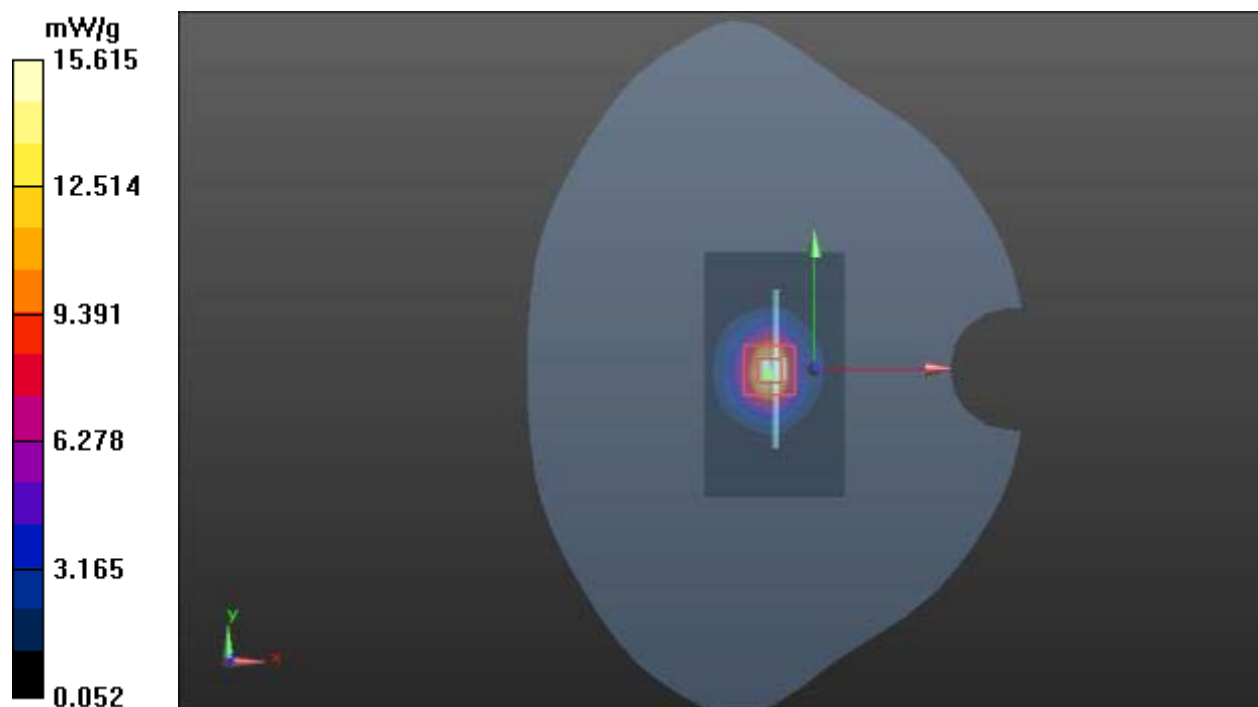
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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) = 6.08 mW/g

Maximum value of SAR (measured) = 15.615 mW/g



Plot 18 System Performance Check at 2600 MHz TSL

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

Date: 12/25/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.58 mW/g

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

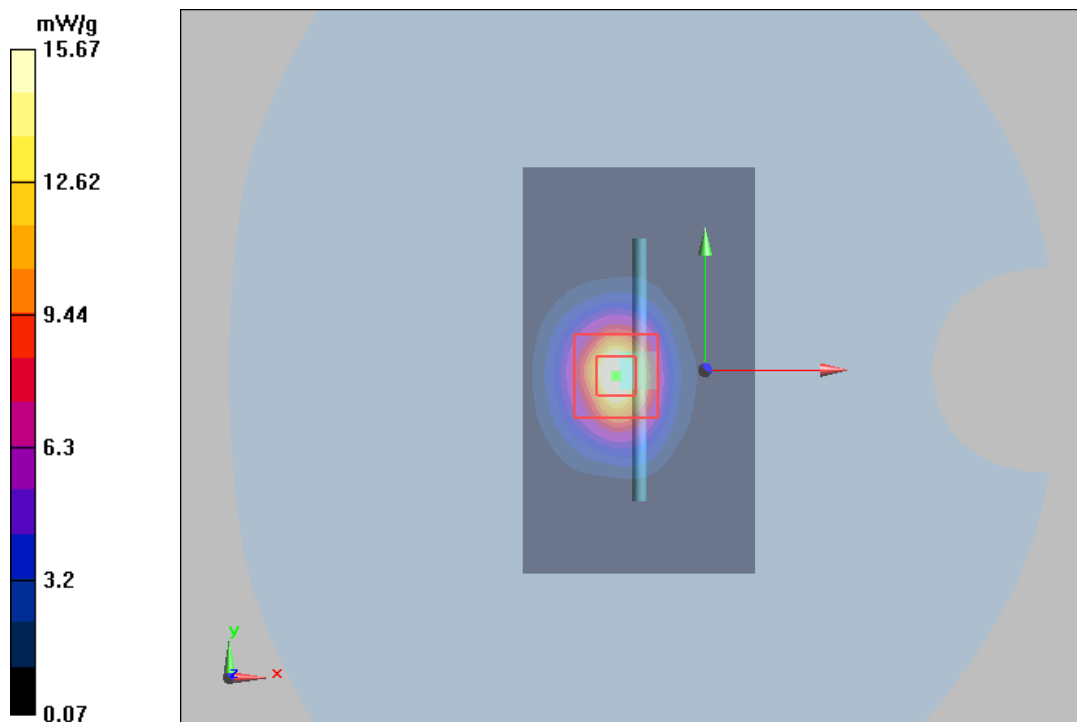
dz=5mm

Reference Value = 74.40 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 13.89 mW/g; SAR(10 g) = 5.94 mW/g

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



Plot 19 System Performance Check at 2600 MHz TSL

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

Date: 12/26/2020

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.71 mW/g

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

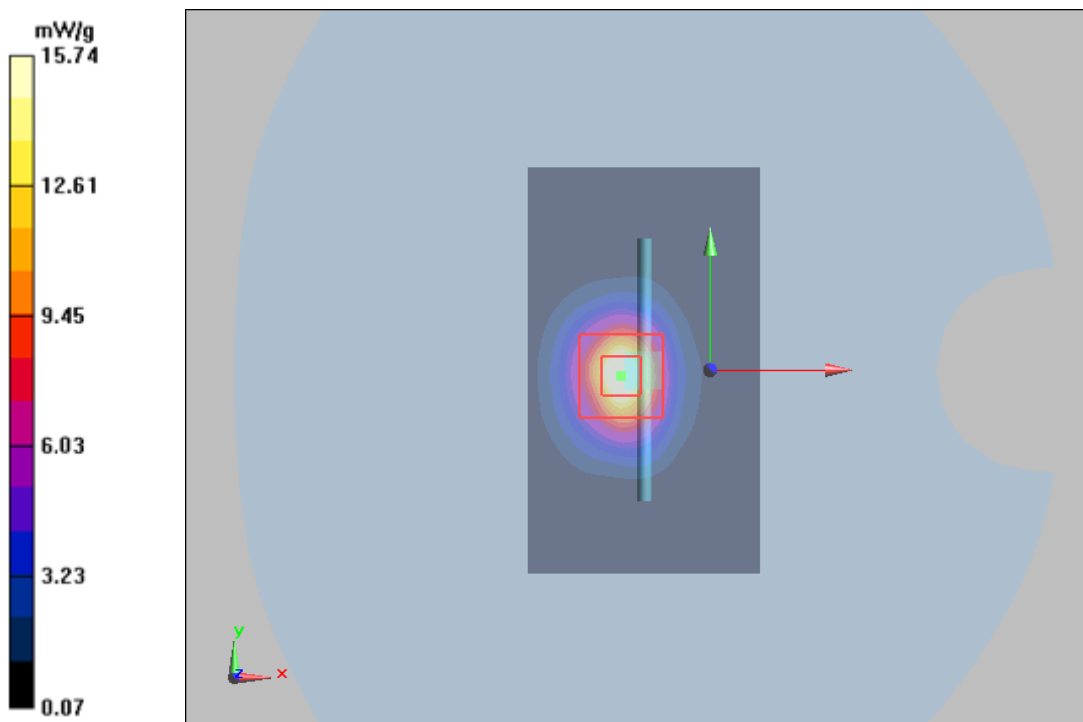
dz=5mm

Reference Value = 74.11 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 28.42 W/kg

SAR(1 g) = 13.76 mW/g; SAR(10 g) = 6.01 mW/g

Maximum value of SAR (measured) = 15.74 mW/g



Plot 20 System Performance Check at 5250 MHz TSL**DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: D5GHzV2**

Date: 12/17/2020

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.80$ S/m; $\epsilon_r = 35.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.55, 5.55, 5.55); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

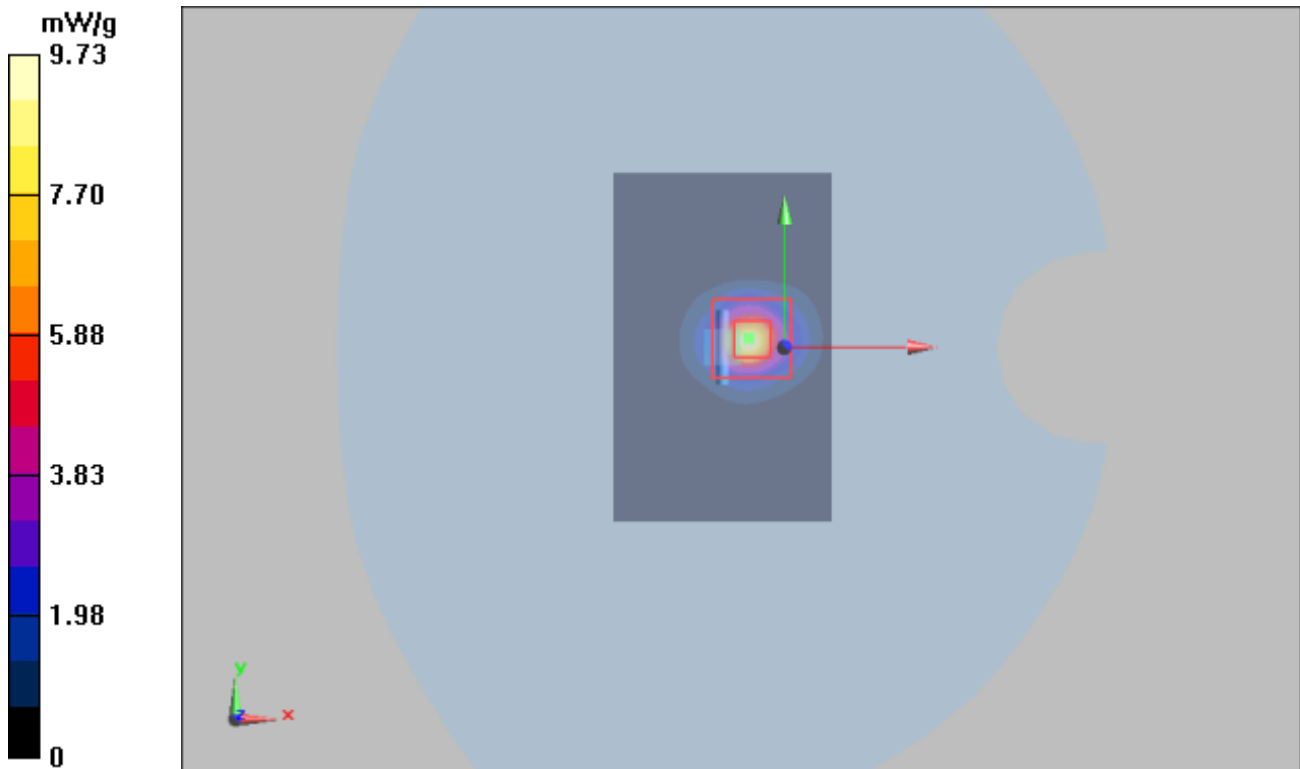
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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 21 System Performance Check at 5600 MHz TSL

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

Date: 12/14/2020

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(4.97, 4.97, 4.97); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

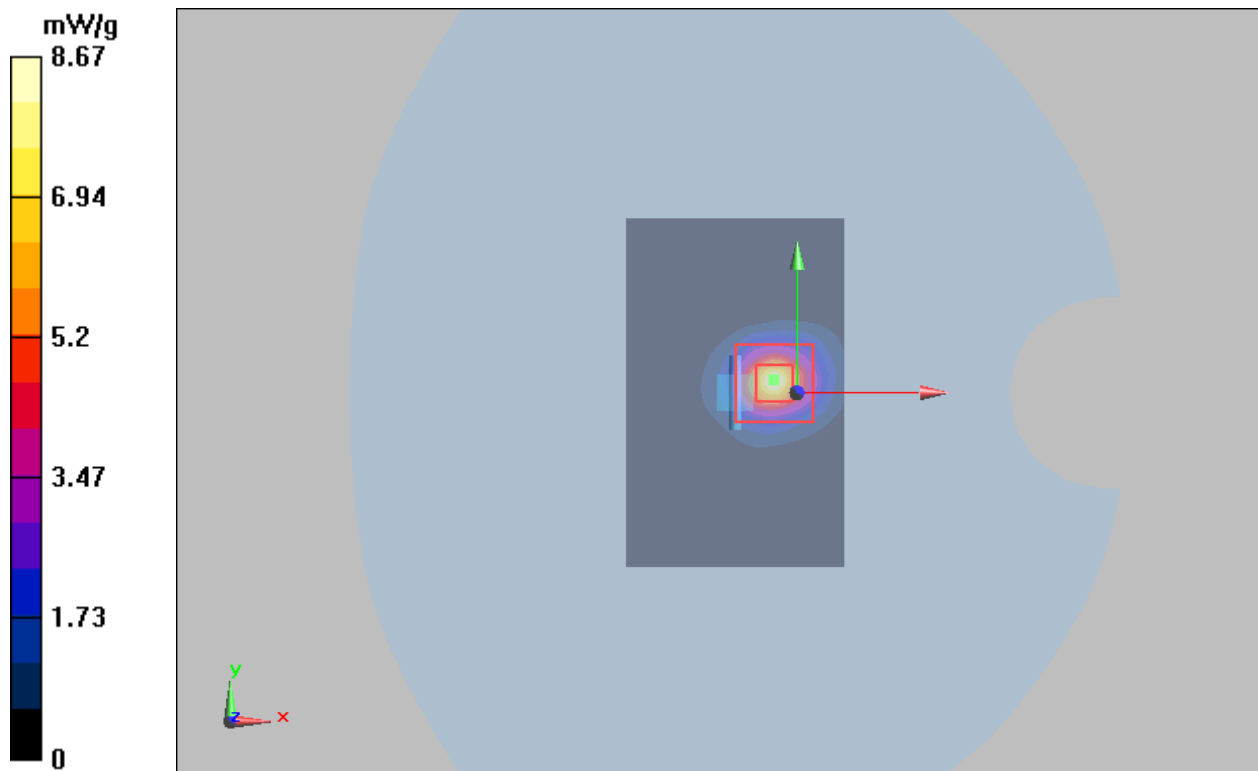
d=10mm, Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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 22 System Performance Check at 5750 MHz TSL

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

Date: 12/15/2020

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

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.21 \text{ S/m}$; $\epsilon_r = 34.9$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.00, 5.00, 5.00); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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,

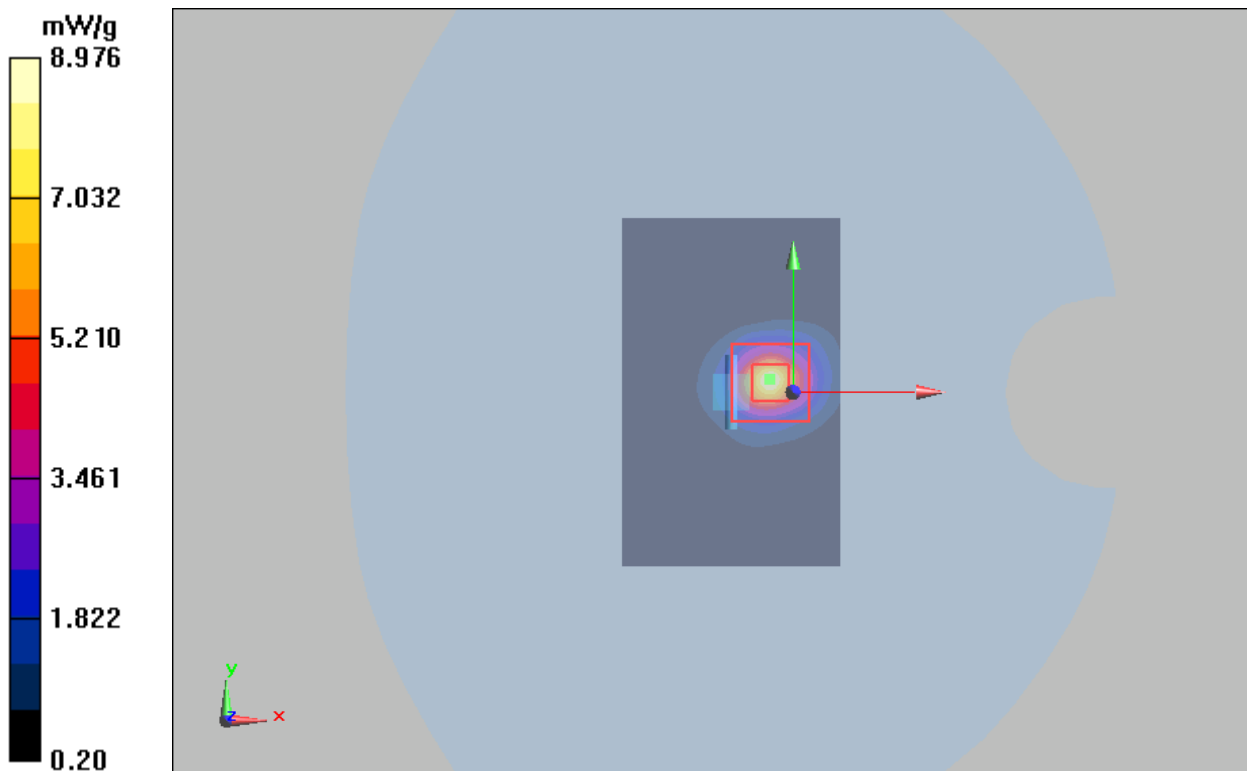
dz=2mm

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



ANNEX C: Highest Graph Results

Plot 23 GSM 850 Right Cheek Middle(ANT1)

Date: 12/7/2020

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.160 W/kg

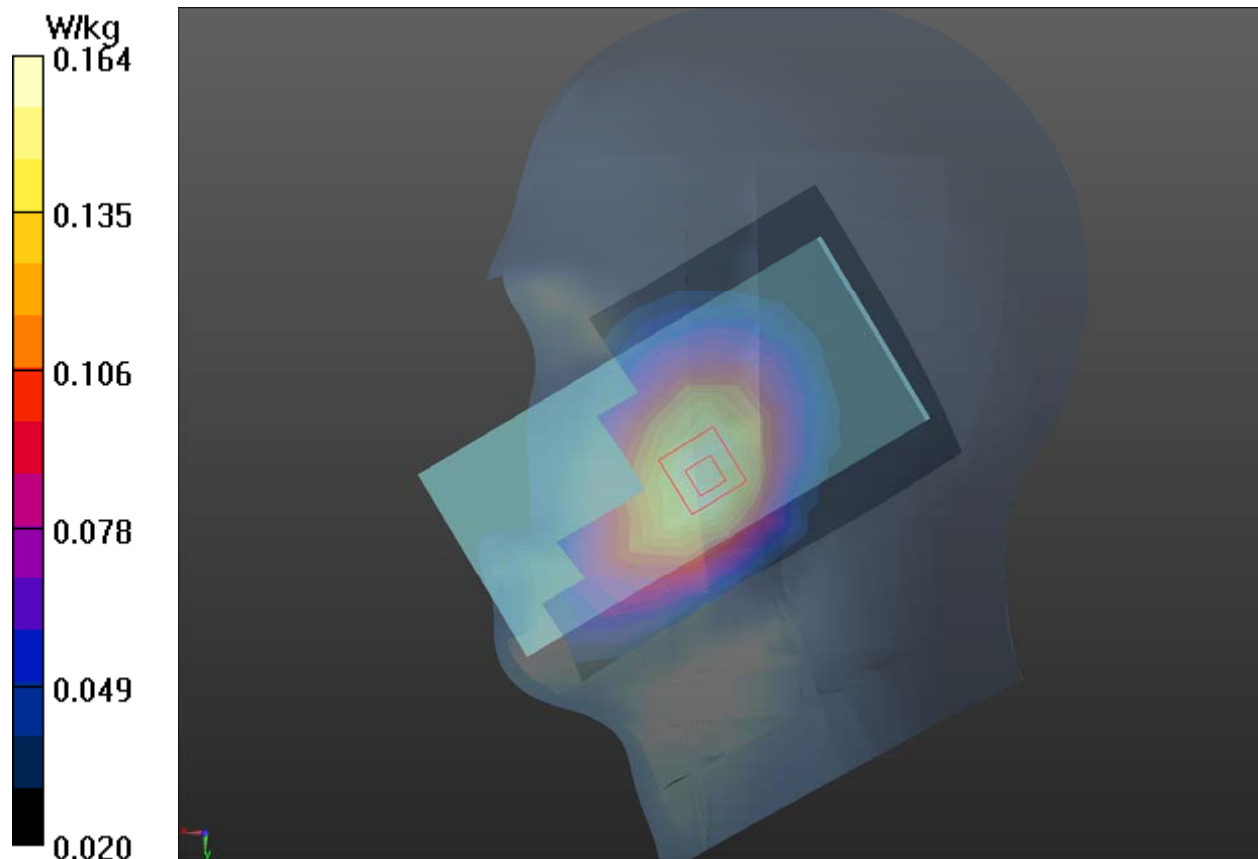
Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.795 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.164 W/kg



Plot 24 GSM 850 Back Side Middle (Distance 15mm, ANT1)

Date: 12/7/2020

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.247 W/kg

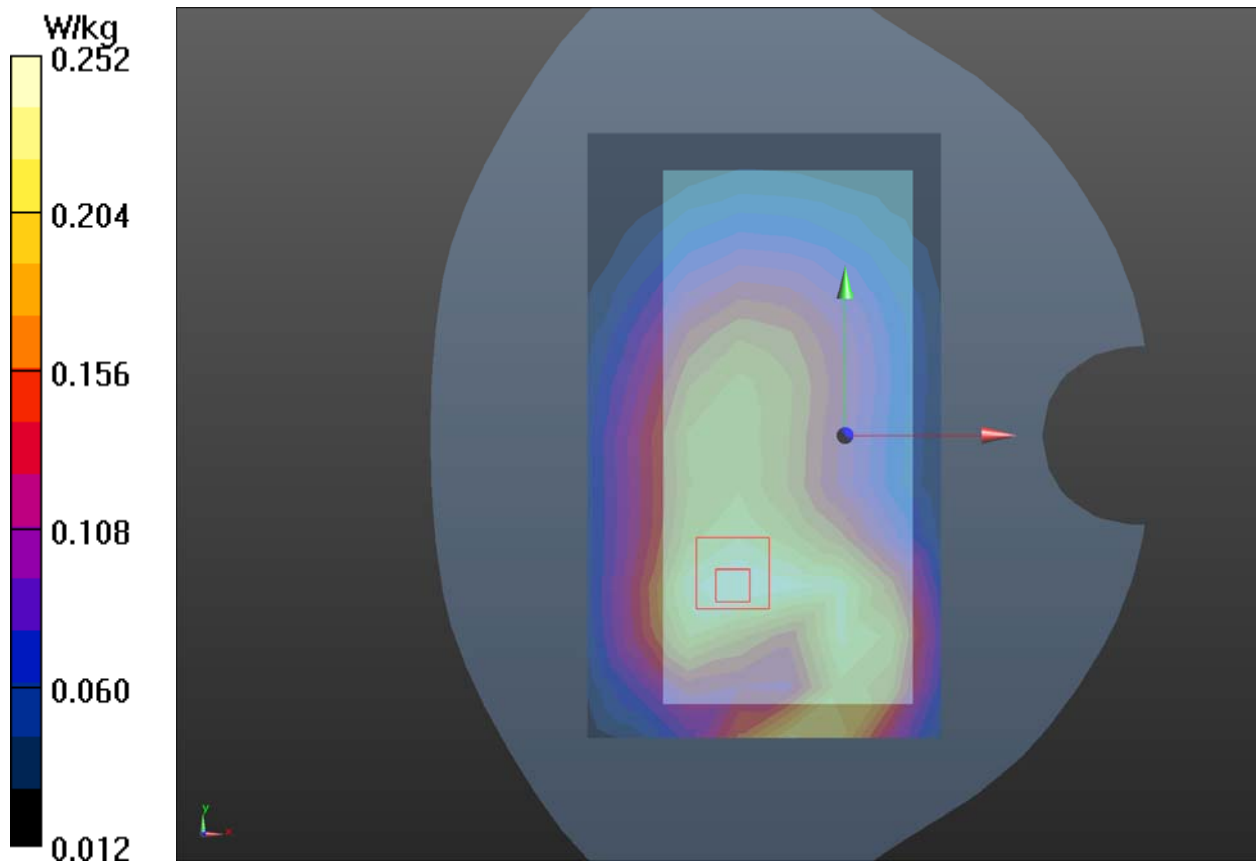
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.75 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.335 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



Plot 25 GSM 850 GPRS (4Txslots) Back Side Middle (Distance 10mm, ANT1)

Date: 12/7/2020

Communication System: UID 0, GPRS 4TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.0

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.582 W/kg

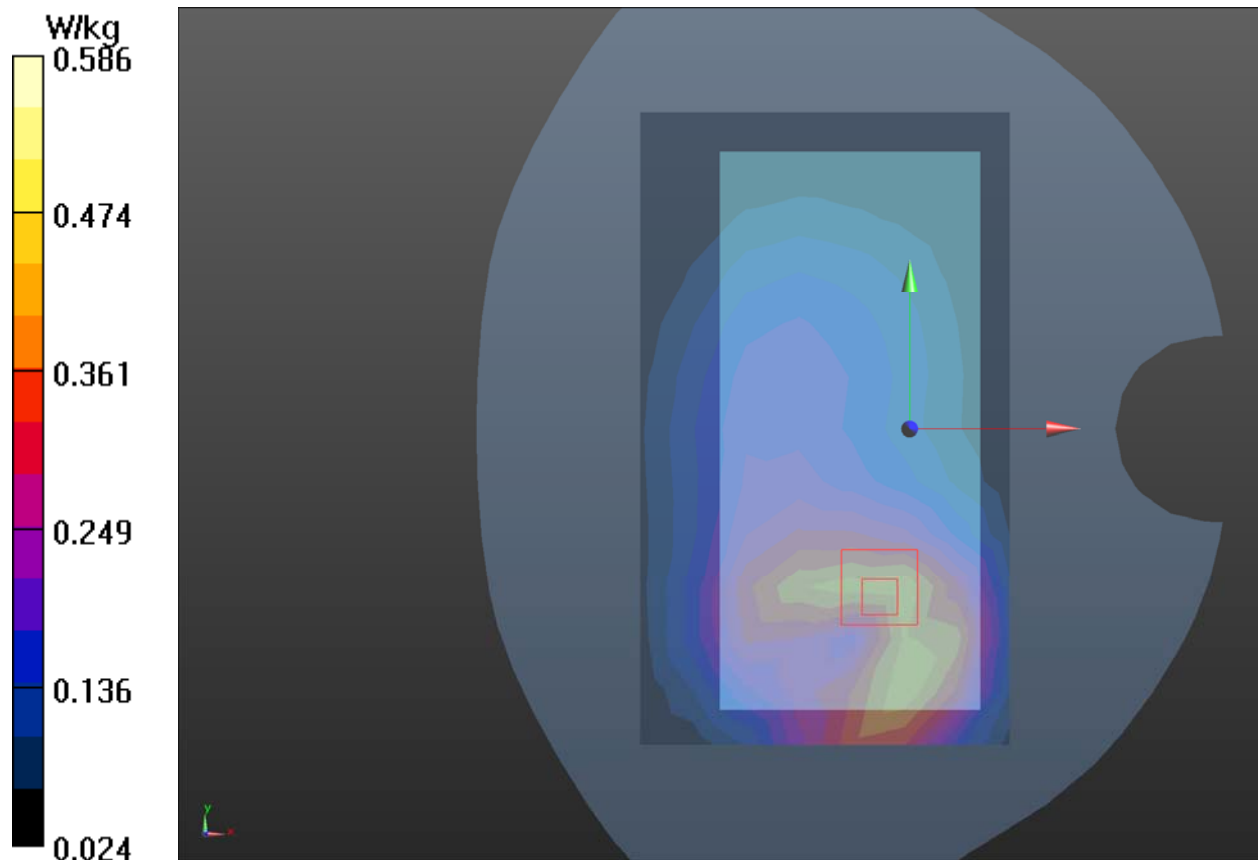
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.62 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.822 W/kg

SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 0.586 W/kg



Plot 26 GSM 1900 Left Cheek Middle(ANT4)

Date: 12/6/2020

Communication System: UID 0, GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.092 W/kg

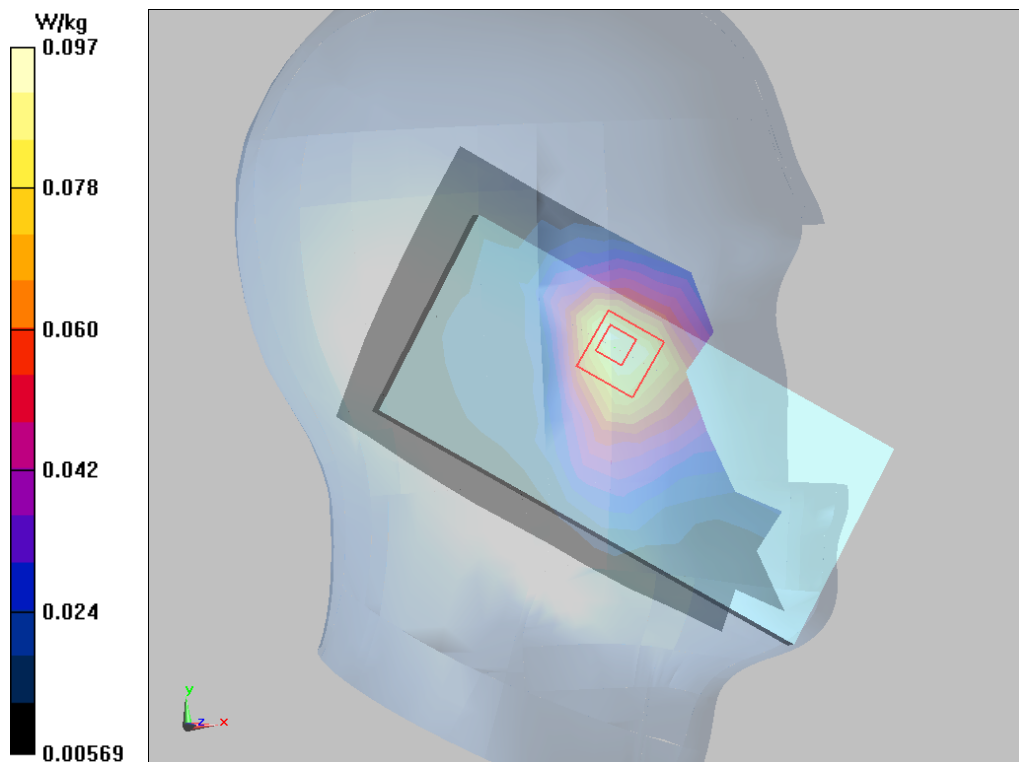
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.869 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.097 W/kg



Plot 27 GSM 1900 Back Side Middle (Distance 15mm,ANT4)

Date: 12/6/2020

Communication System: UID 0, GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.245 W/kg

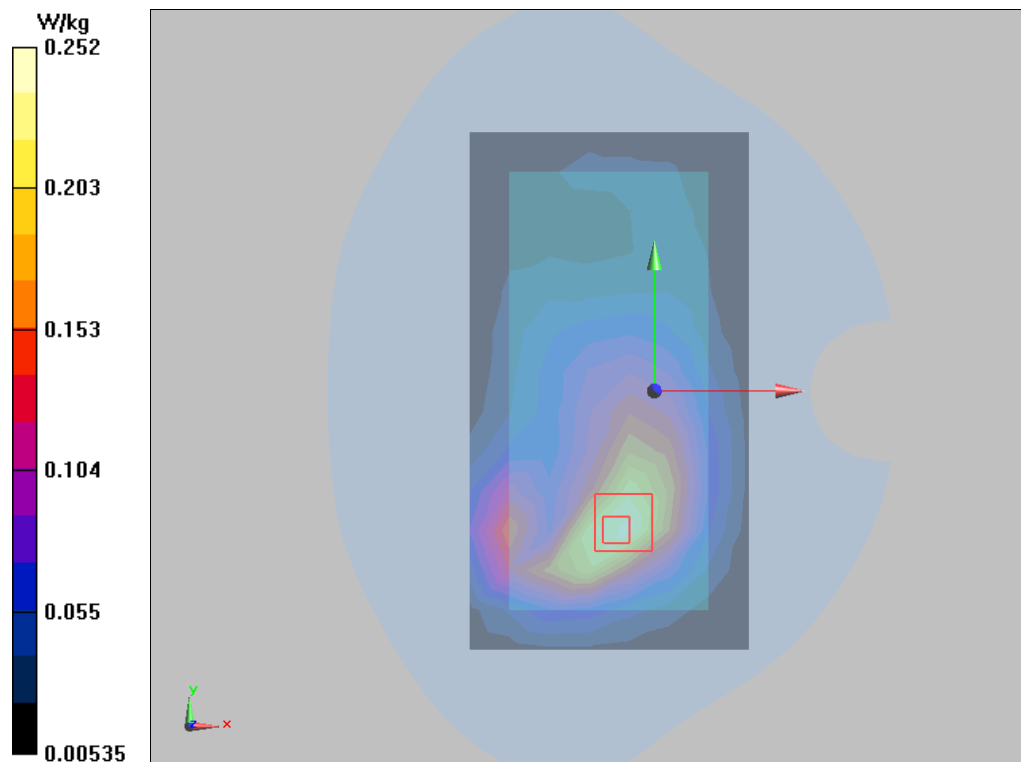
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.968 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



Plot 28 GSM 1900 GPRS (3Txslots) Bottom Edge Middle (Distance 10mm, ANT4)

Date: 12/6/2020

Communication System: UID 0, GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.76694

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.792 W/kg

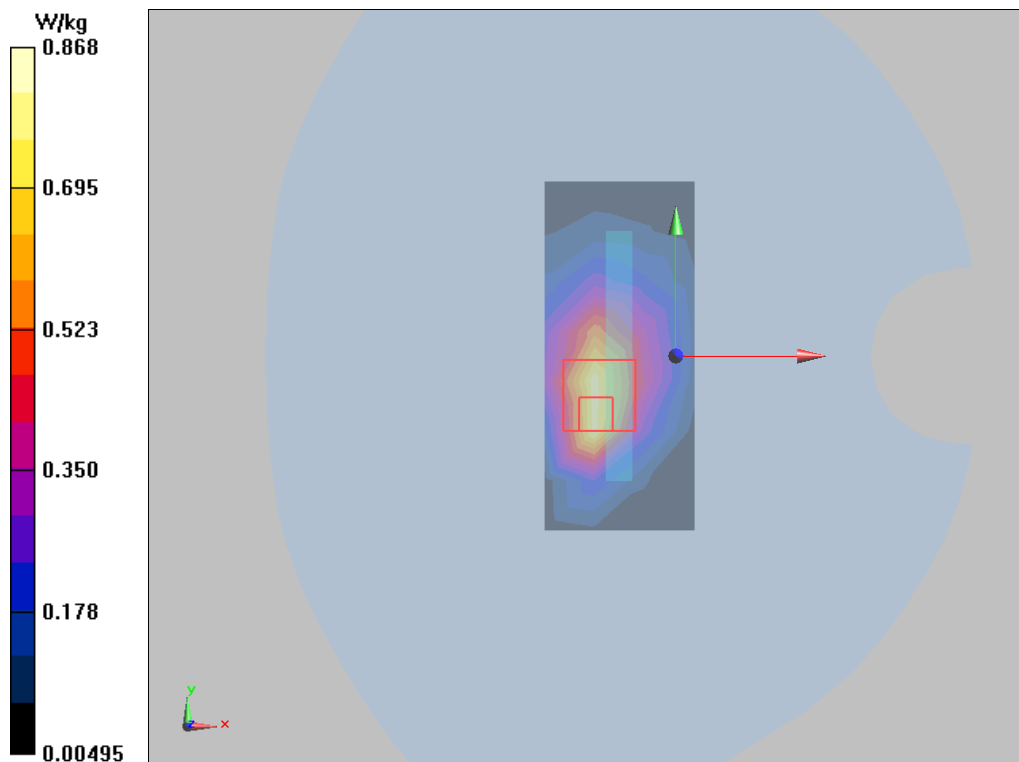
Bottom Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.07 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.436 W/kg

Maximum value of SAR (measured) = 0.868 W/kg



Plot 29 UMTS Band II Right Cheek Middle(ANT4)

Date: 12/10/2020

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

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

Maximum value of SAR (measured) = 0.181 W/kg

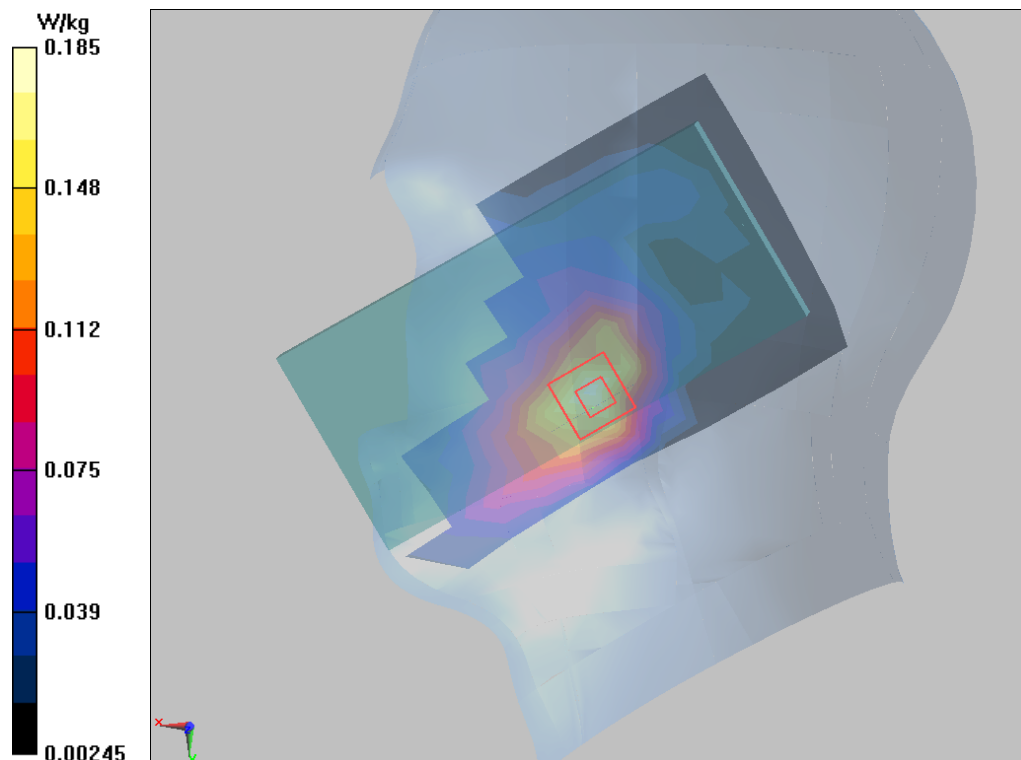
Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.775 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.185 W/kg



Plot 30 UMTS Band II Back Side Middle (Distance 15mm, ANT4)

Date: 12/10/2020

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.252 W/kg

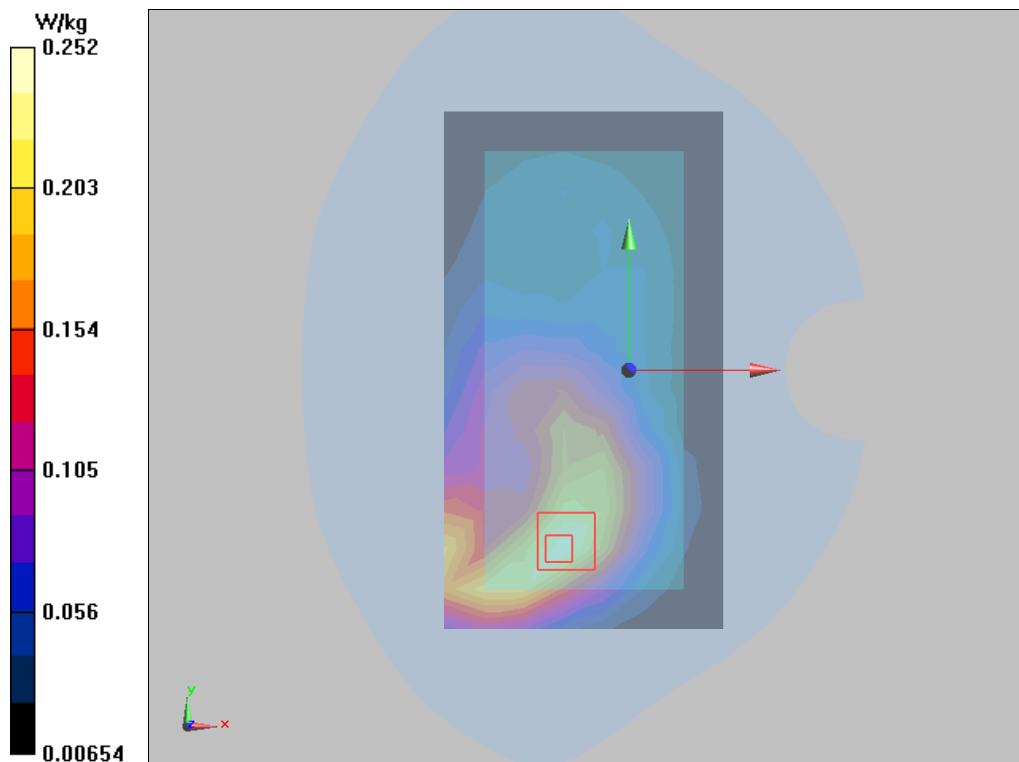
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.433 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.370 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



Plot 31 UMTS Band II Bottom Edge Middle (Distance 10mm, ANT4)

Date: 12/10/2020

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.777 W/kg

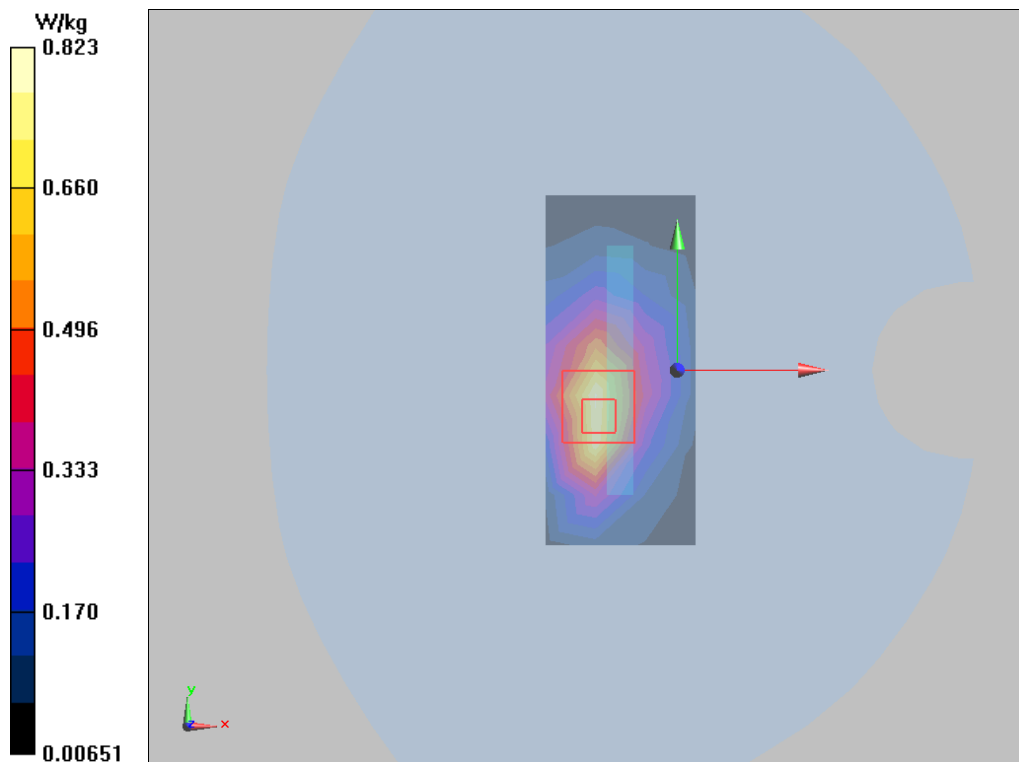
Bottom Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.60 V/m; Power Drift = 0.080 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.416 W/kg

Maximum value of SAR (measured) = 0.823 W/kg



Plot 32 UMTS Band IV Right Cheek Middle(ANT4)

Date: 12/4/2020

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

Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.293$ S/m; $\epsilon_r = 38.782$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

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

Maximum value of SAR (measured) = 0.0943 W/kg

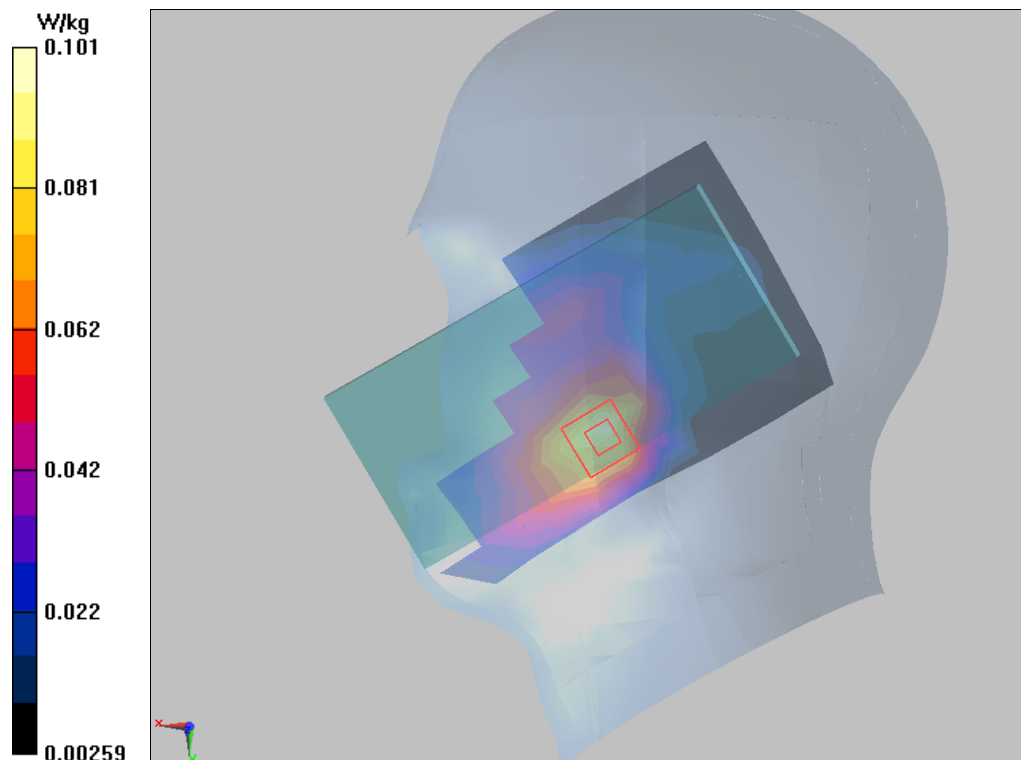
Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.730 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.101 W/kg



Plot 33 UMTS Band IV Back Side Middle (Distance 15mm, ANT4)

Date: 12/4/2020

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

Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.293$ S/m; $\epsilon_r = 38.782$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.350 W/kg

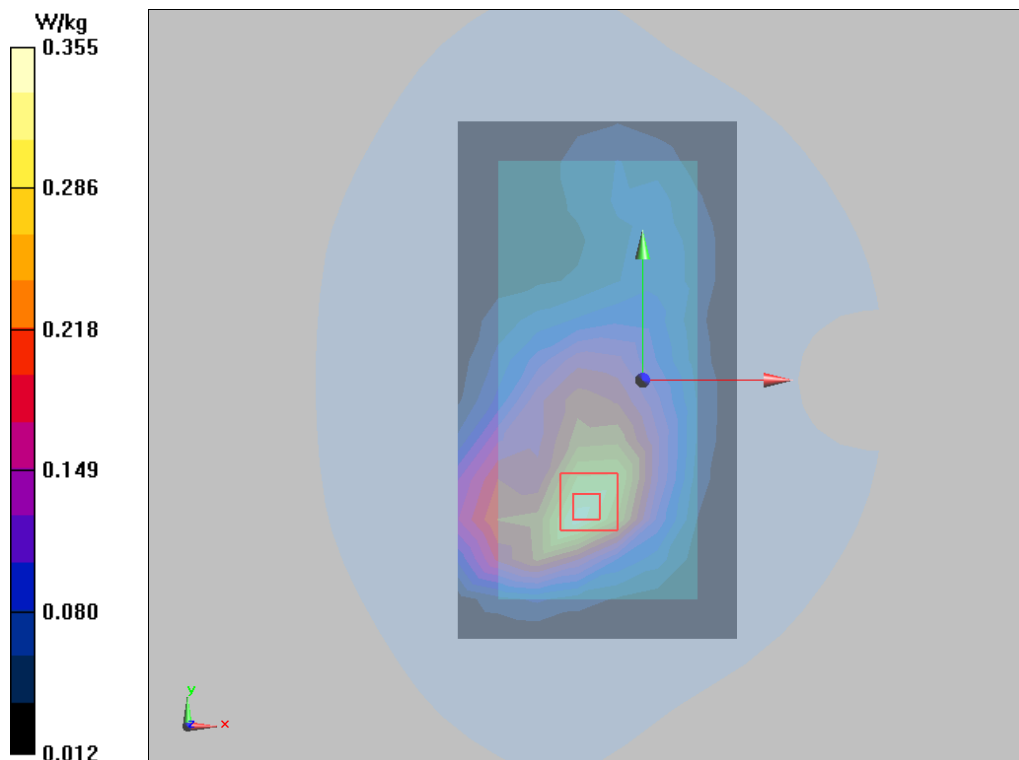
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.29 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.355 W/kg



Plot 34 UMTS Band IV Back Side Middle (Distance 10mm, ANT4)

Date: 12/4/2020

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

Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.293$ S/m; $\epsilon_r = 38.782$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.604 W/kg

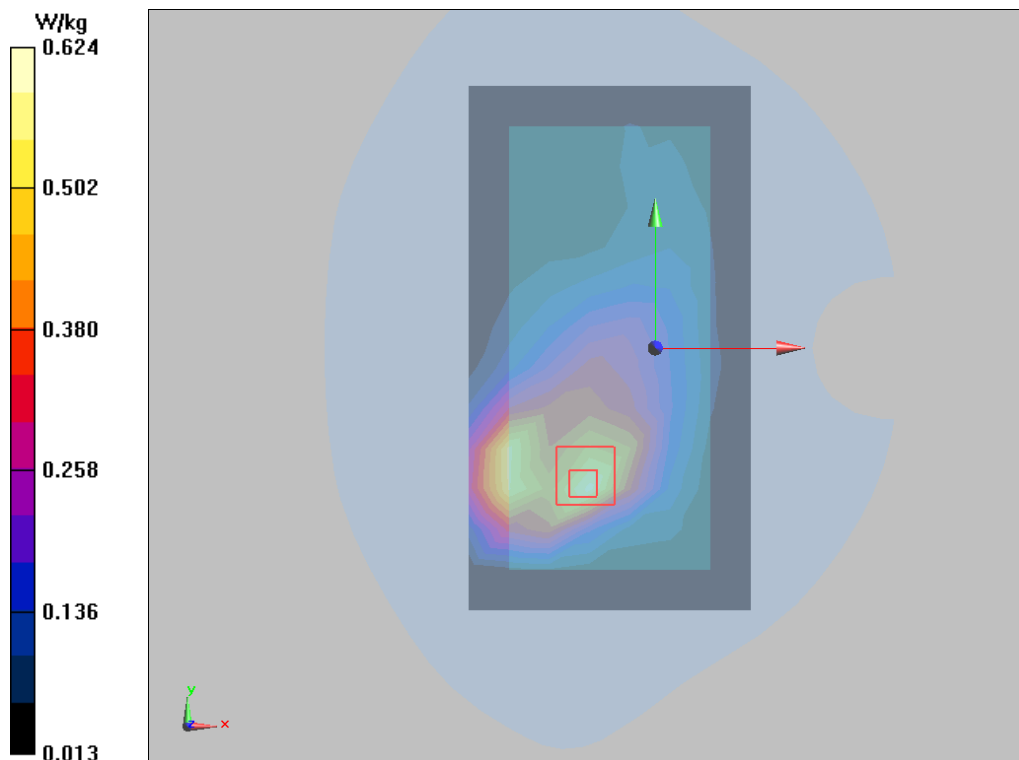
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.22 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 0.624 W/kg



Plot 35 UMTS Band V Left Cheek Middle(ANT1)

Date: 12/8/2020

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Left Cheek Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.112 W/kg

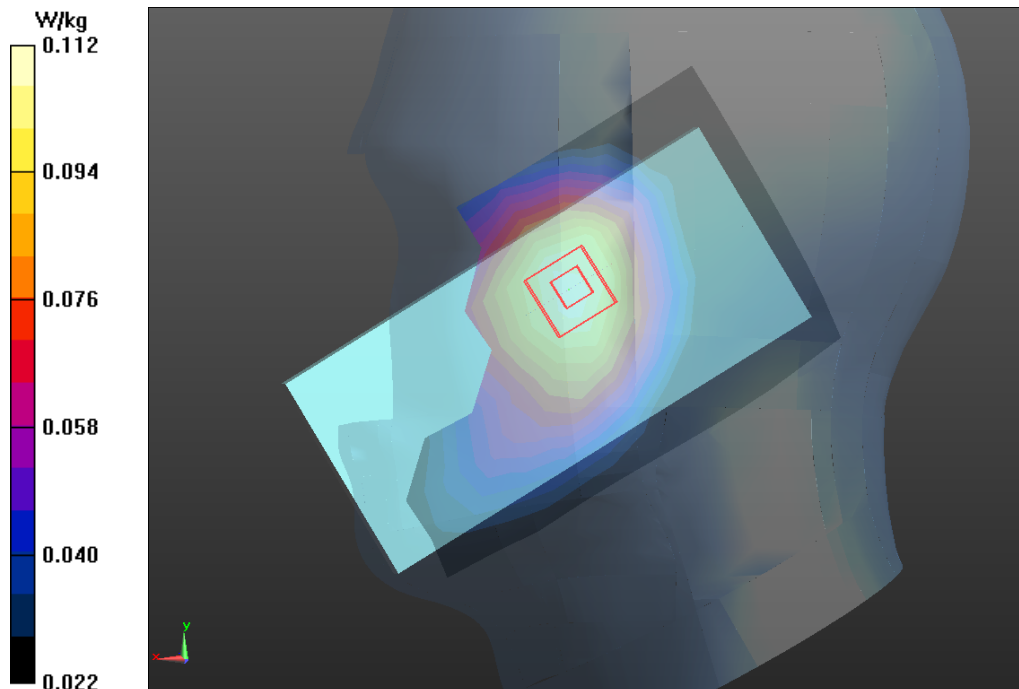
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.749 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.112 W/kg



Plot 36 UMTS Band V Back Side Middle (Distance 15mm, ANT1)

Date: 12/8/2020

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 42.201$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.293 W/kg

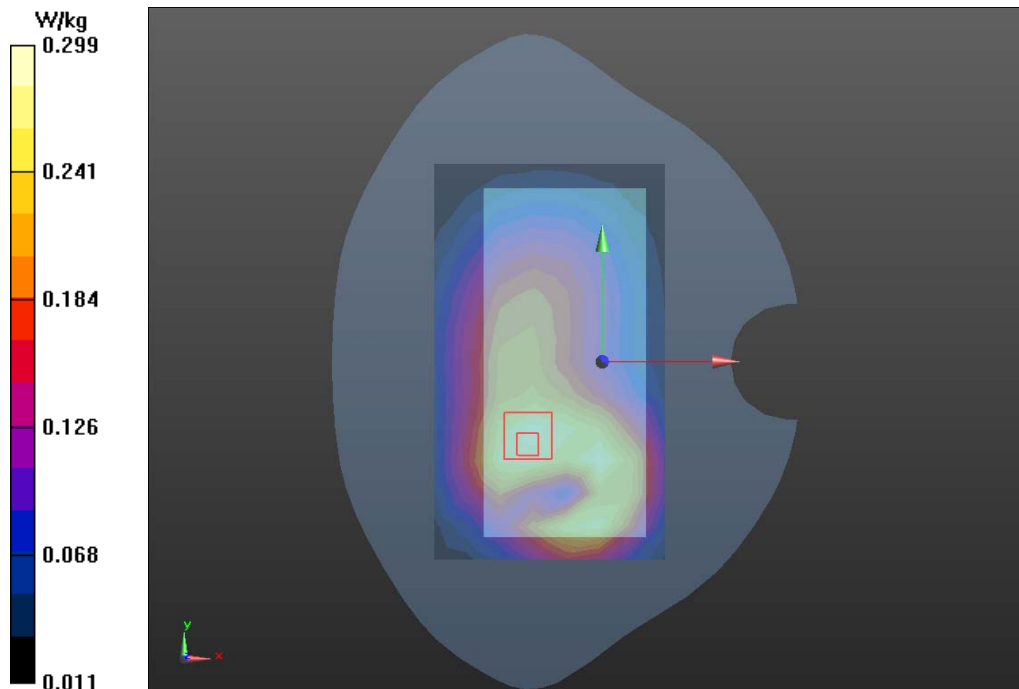
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.17 V/m ; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.282 W/kg ; SAR(10 g) = 0.202 W/kg

Maximum value of SAR (measured) = 0.299 W/kg



Plot 37 UMTS Band V Back Side Middle (Distance 10mm, ANT1)

Date: 12/8/2020

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.581 W/kg

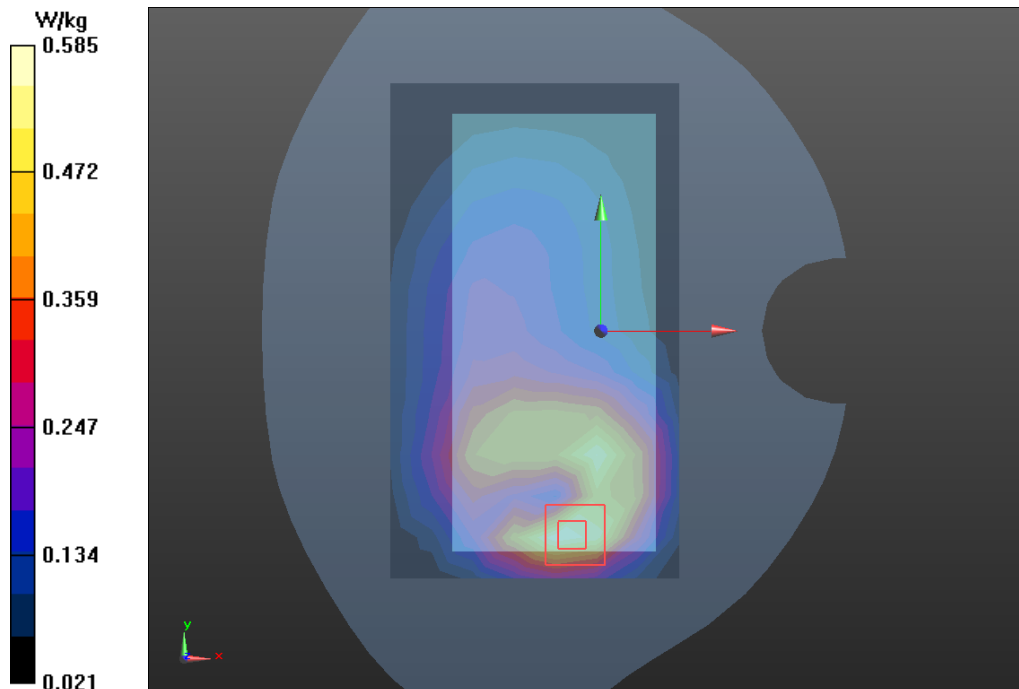
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.21 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.585 W/kg



Plot 38 LTE Band 2 1RB Right Cheek Low (ANT4)

Date: 12/10/2020

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.132 W/kg

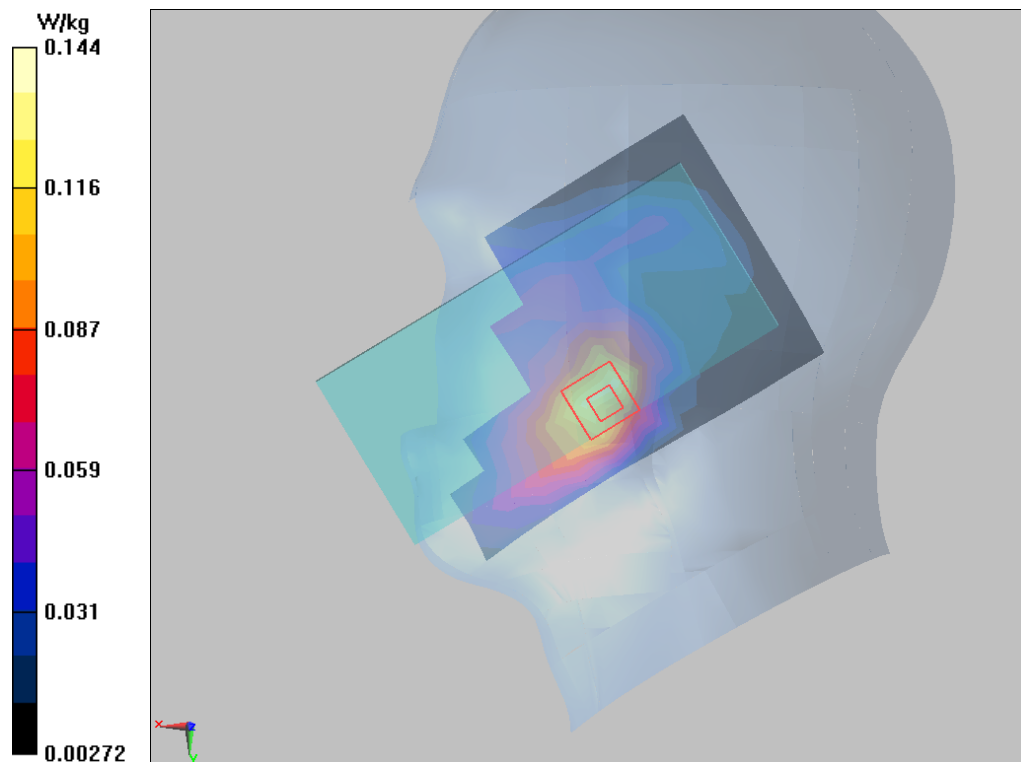
Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.295 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.144 W/kg



Plot 39 LTE Band 2 50%RB Back Side Low(Distance 15mm, ANT4)

Date: 12/10/2020

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 39.071$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.363 W/kg

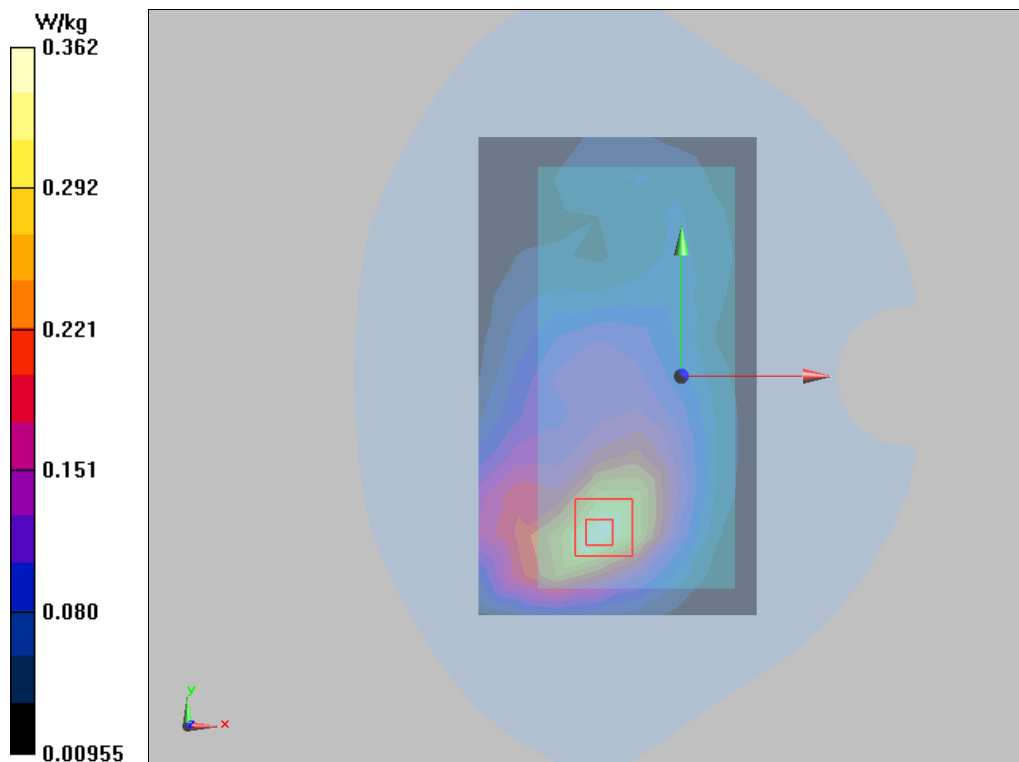
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.771 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.525 W/kg

SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.362 W/kg



Plot 40 LTE Band 2 50%RB Bottom Edge High (Distance 10mm, ANT4)

Date: 12/10/2020

Communication System: UID 0, LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.434$ S/m; $\epsilon_r = 38.861$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Bottom Edge High/Area Scan (4x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.845 W/kg

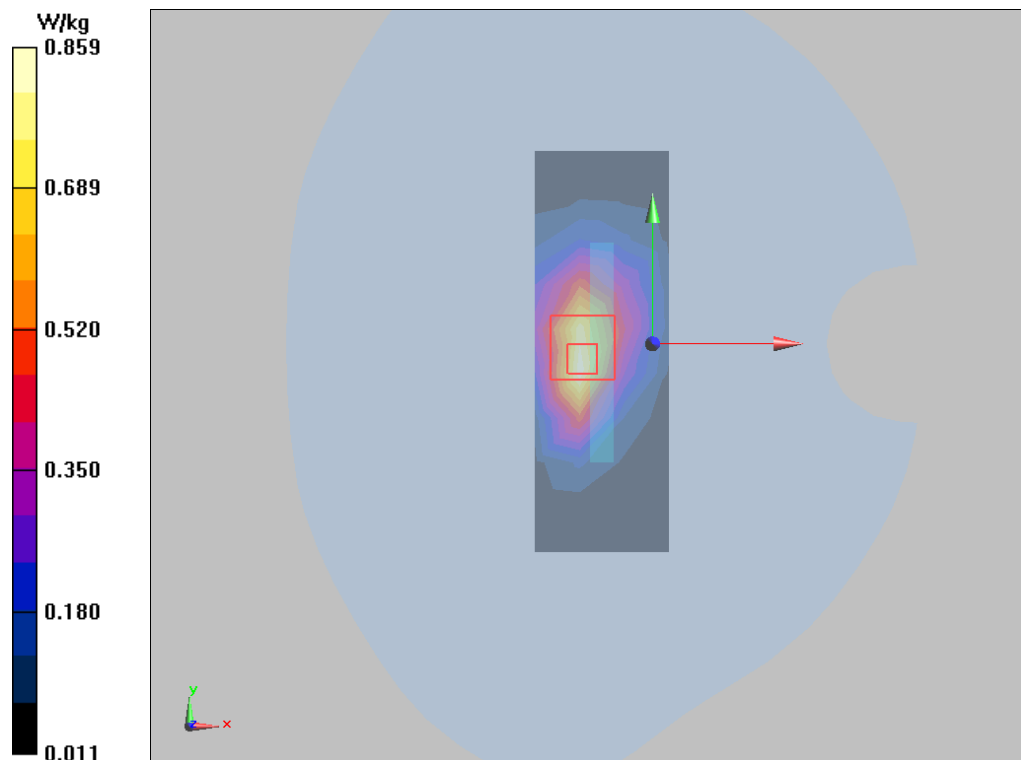
Bottom Edge High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.22 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 0.859 W/kg



Plot 41 LTE Band 5 1RB Right Cheek Low (ANT1)

Date: 12/7/2020

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.181$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.156 W/kg

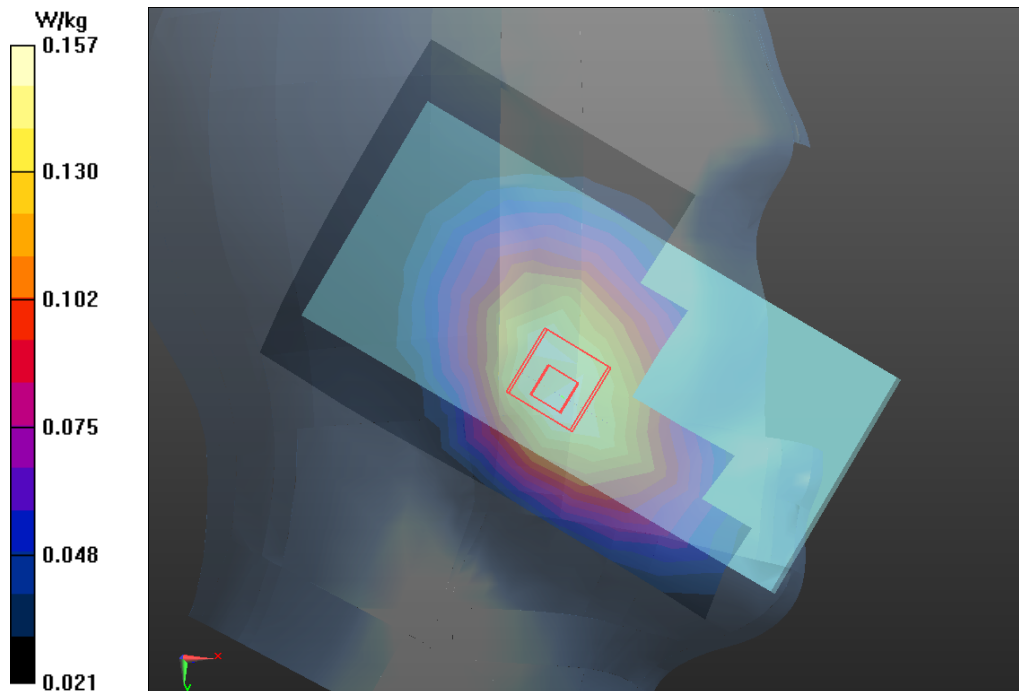
Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.298 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.157 W/kg



Plot 42 LTE Band 5 1RB Back Side Low (Distance 15mm, ANT1)

Date: 12/7/2020

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.181$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7470)

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.222 W/kg

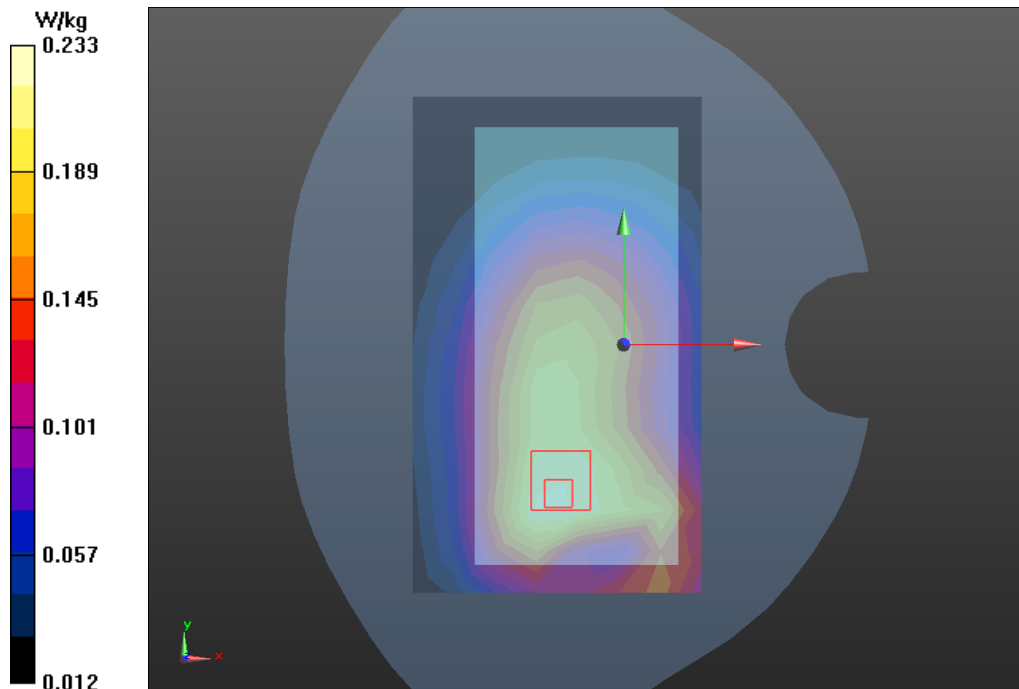
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.68 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.285 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.233 W/kg



Plot 43 LTE Band 5 1RB Back Side Low (Distance 10mm, ANT1)

Date: 12/7/2020

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 42.181$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.408 W/kg

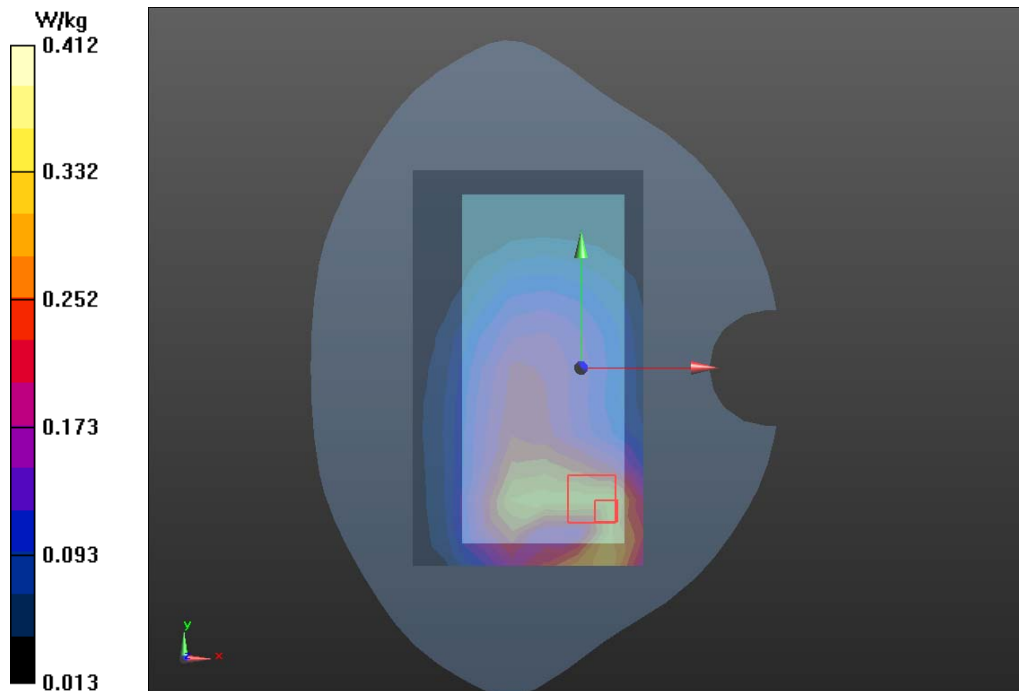
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.74 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.397 W/kg ; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.412 W/kg



Plot 44 LTE Band 7 1RB Right Cheek Middle(ANT4)

Date: 12/24/2020

Communication System: UID 0, LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 1.905 \text{ S/m}$; $\epsilon_r = 38.267$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Middle/Area Scan (10x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.129 W/kg

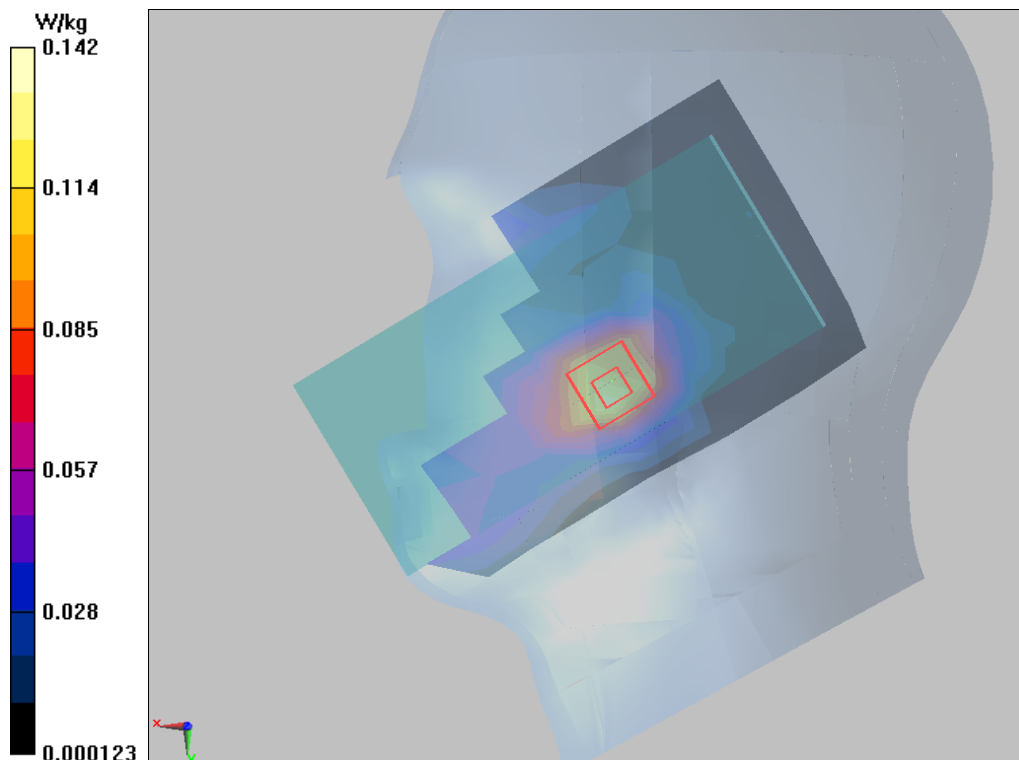
Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.698 V/m ; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.130 W/kg ; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.142 W/kg



Plot 45 LTE Band 7 1RB Back Side Middle (Distance 15mm, ANT4)

Date: 12/24/2020

Communication System: UID 0, LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 1.905 \text{ S/m}$; $\epsilon_r = 38.267$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (10x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.312 W/kg

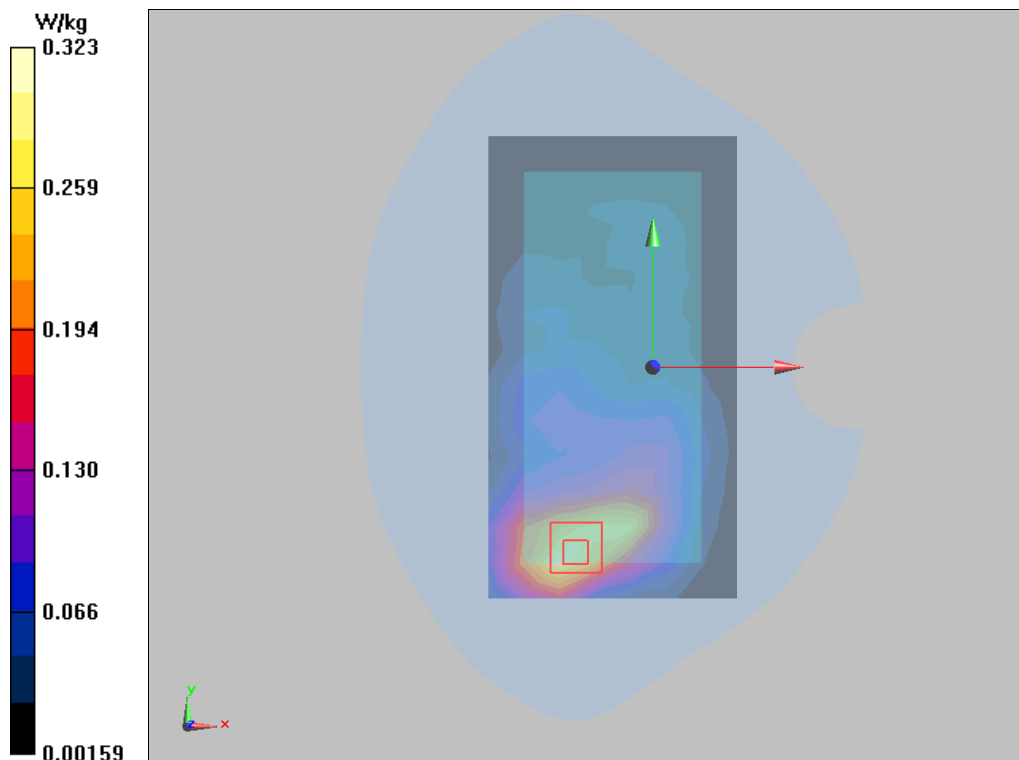
Back Side Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.680 V/m ; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.300 W/kg ; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.323 W/kg



Plot 46 LTE Band 7 1RB Back Side Middle(Distance 10mm, ANT4)

Date: 12/24/2020

Communication System: UID 0, LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.267$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.624 W/kg

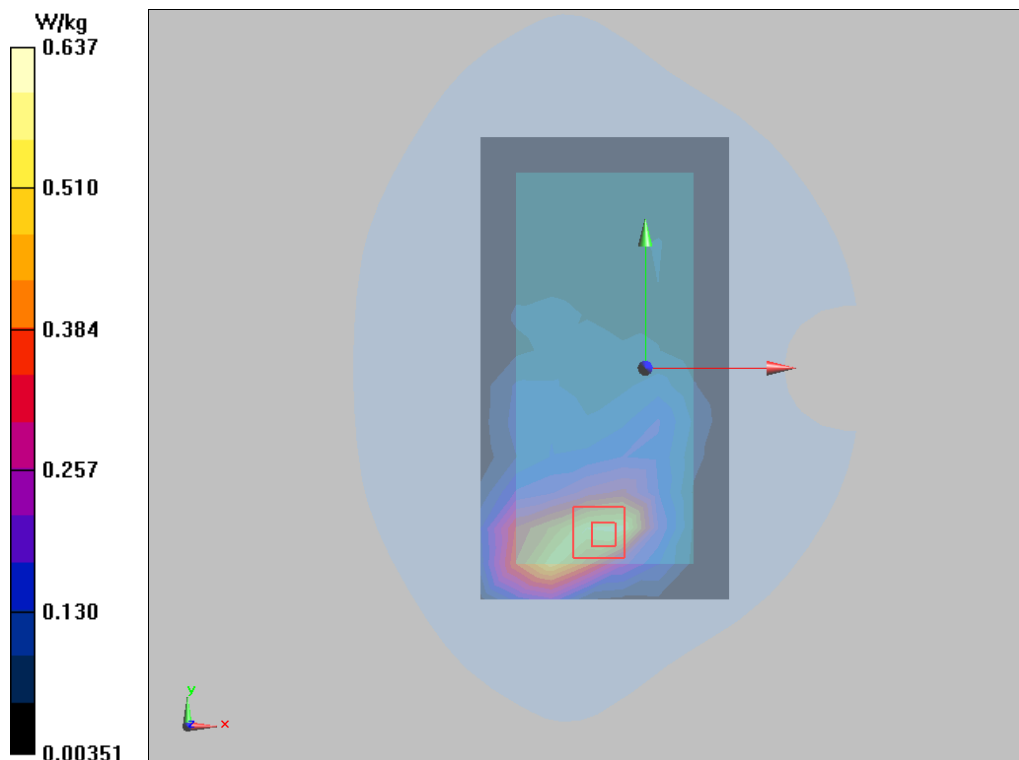
Back Side Middle/Zoom Scan(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.127 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 0.637 W/kg



Plot 47 LTE Band 12 1RB Right Cheek Low(ANT1)

Date: 12/4/2020

Communication System: UID 0, LTE (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.846$ S/m; $\epsilon_r = 42.775$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.78, 9.78, 9.78); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.149 W/kg

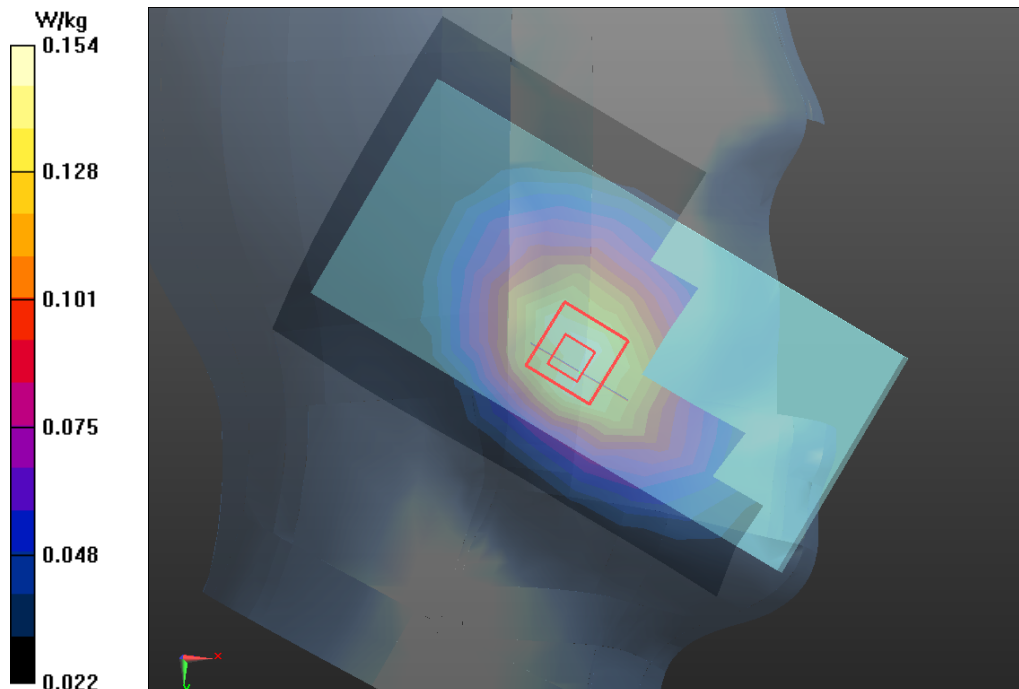
Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.529 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.154 W/kg



Plot 48 LTE Band 12 1RB Front Side Low (Distance 15mm, ANT1)

Date: 12/4/2020

Communication System: UID 0, LTE (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.846$ S/m; $\epsilon_r = 42.775$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.78, 9.78, 9.78); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Front Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.251 W/kg

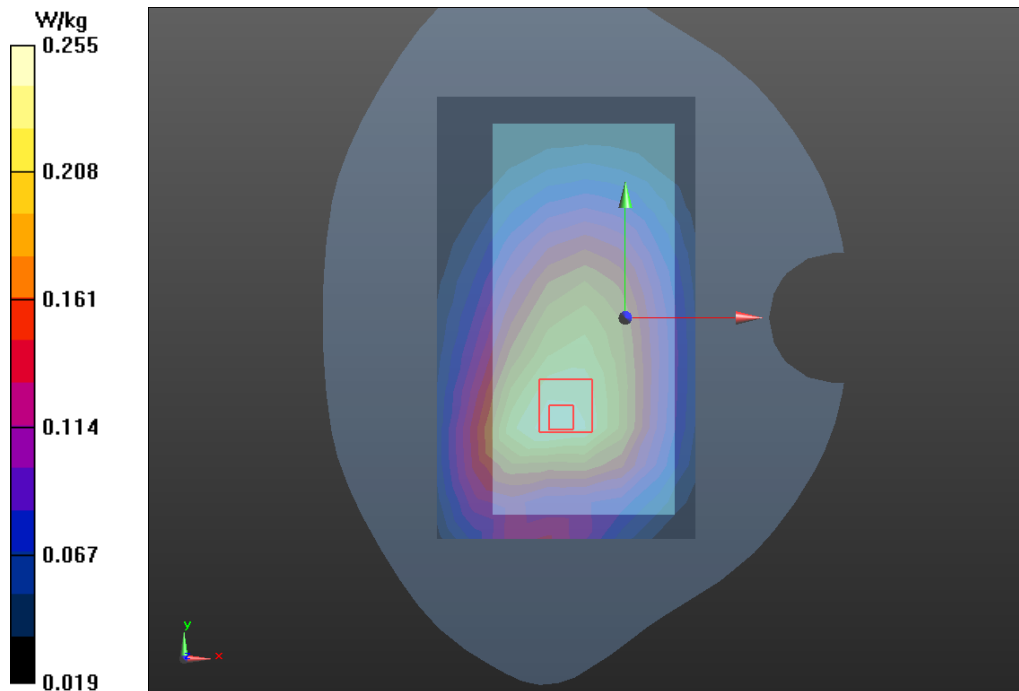
Front Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.55 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.185 W/kg

Maximum value of SAR (measured) = 0.255 W/kg



Plot 49 LTE Band 12 1RB Back Side Low(Distance 10mm, ANT1)

Date: 12/4/2020

Communication System: UID 0, LTE (0); Frequency: 704 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.846$ S/m; $\epsilon_r = 42.775$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.78, 9.78, 9.78); Calibrated:7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.316 W/kg

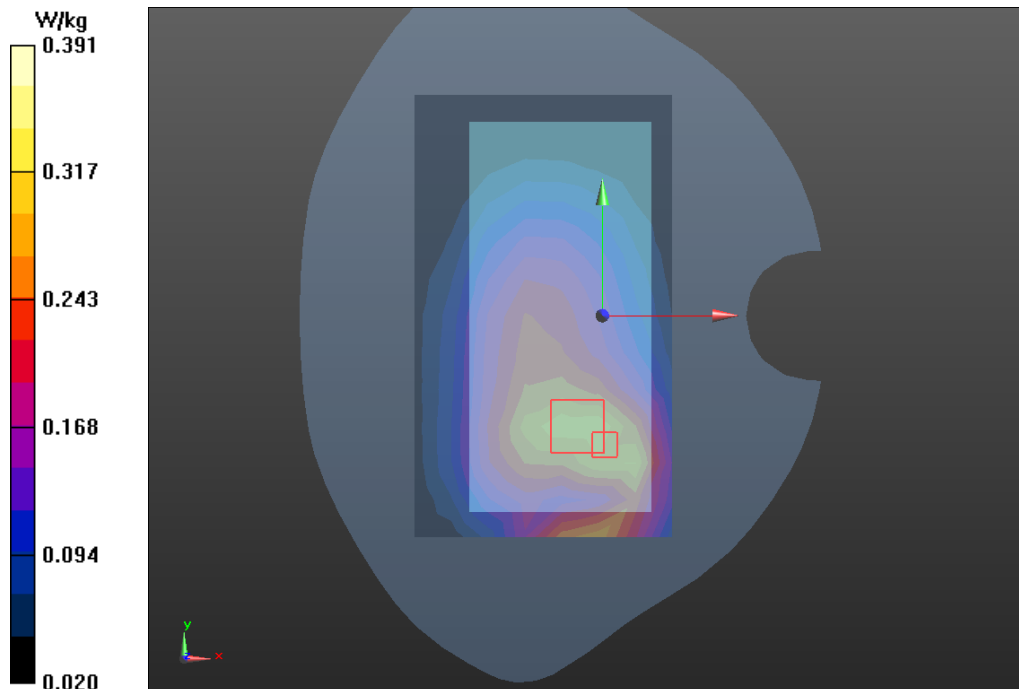
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.77 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.391 W/kg



Plot 50 LTE Band 26 1RB Right Cheek Low (ANT1)

Date: 12/8/2020

Communication System: UID 0, LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.152$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.112 W/kg

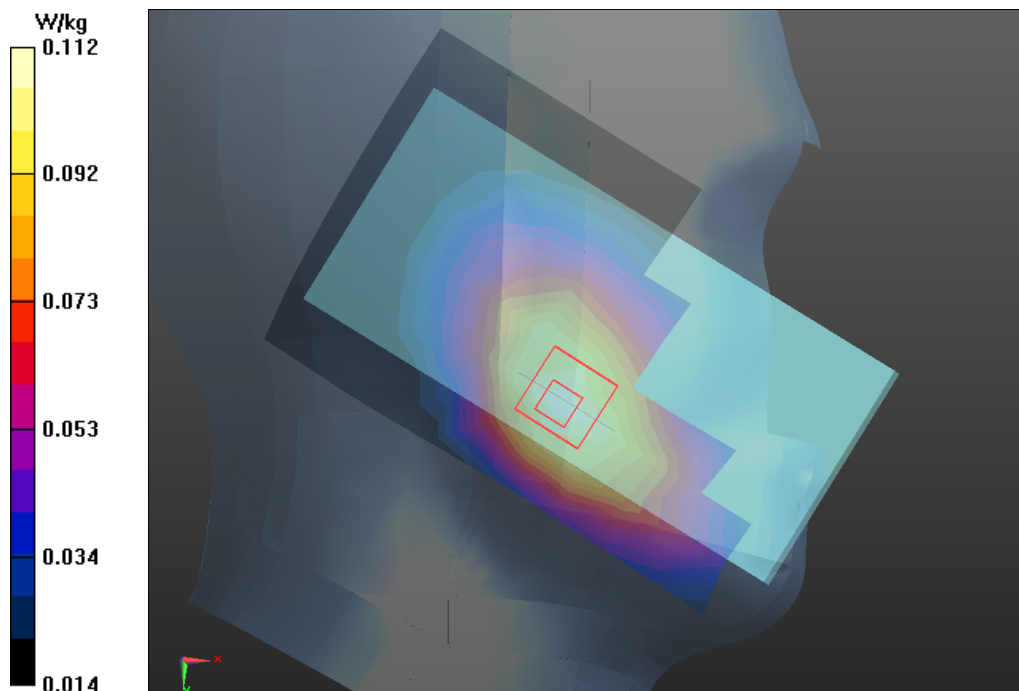
Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.118 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.134 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.112 W/kg



Plot 51 LTE Band 26 1RB Front Side Low (Distance 15mm, ANT1)

Date: 12/8/2020

Communication System: UID 0, LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.152$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Front Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.186 W/kg

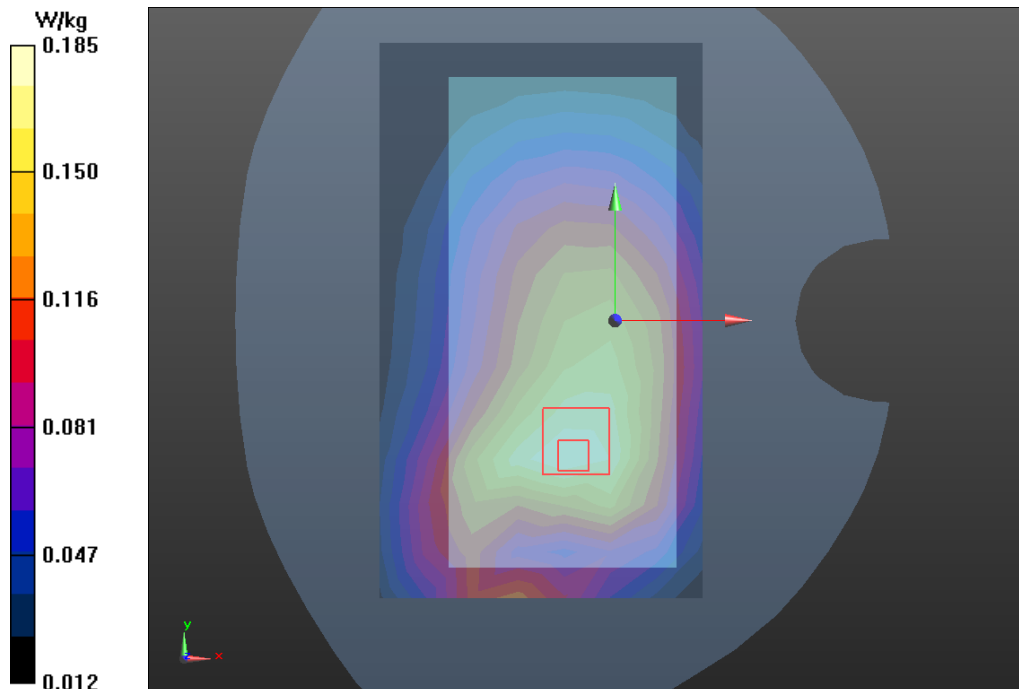
Front Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.43 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.133 W/kg

Maximum value of SAR (measured) = 0.185 W/kg



Plot 52 LTE Band 26 1RB Back Side Low (Distance 10mm, ANT1)

Date: 12/8/2020

Communication System: UID 0, LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.152$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.310 W/kg

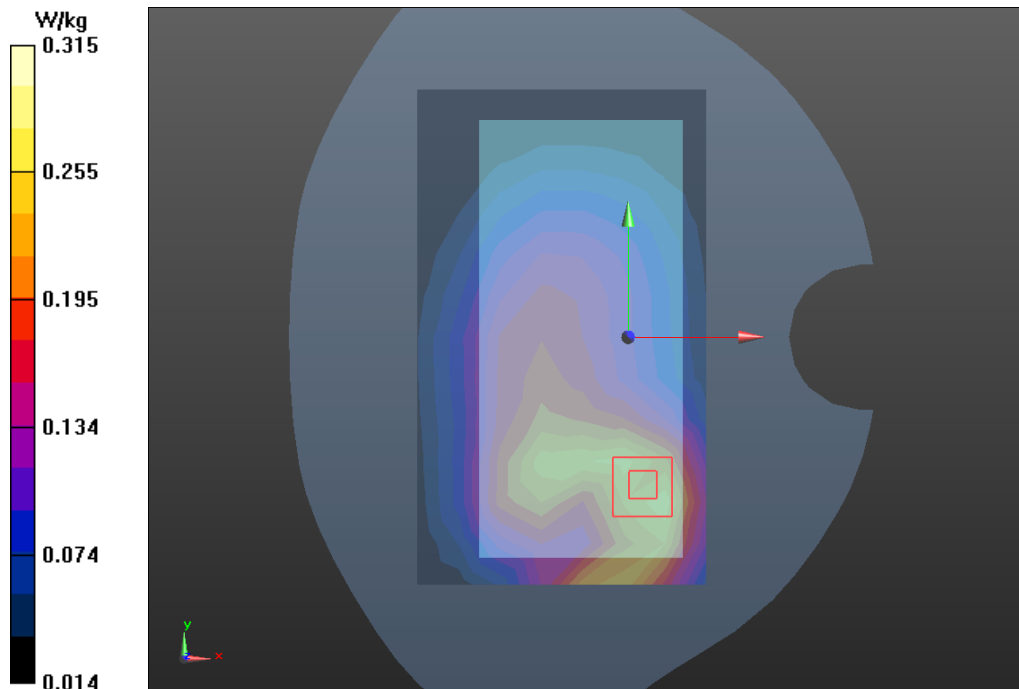
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.17 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.191 W/kg

Maximum value of SAR (measured) = 0.315 W/kg



Plot 53 LTE Band 38 50%RB Right Cheek High (ANT4)

Date: 12/12/2020

Communication System: UID 0, LTE (0); Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 37.993$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

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

Maximum value of SAR (measured) = 0.077 W/kg

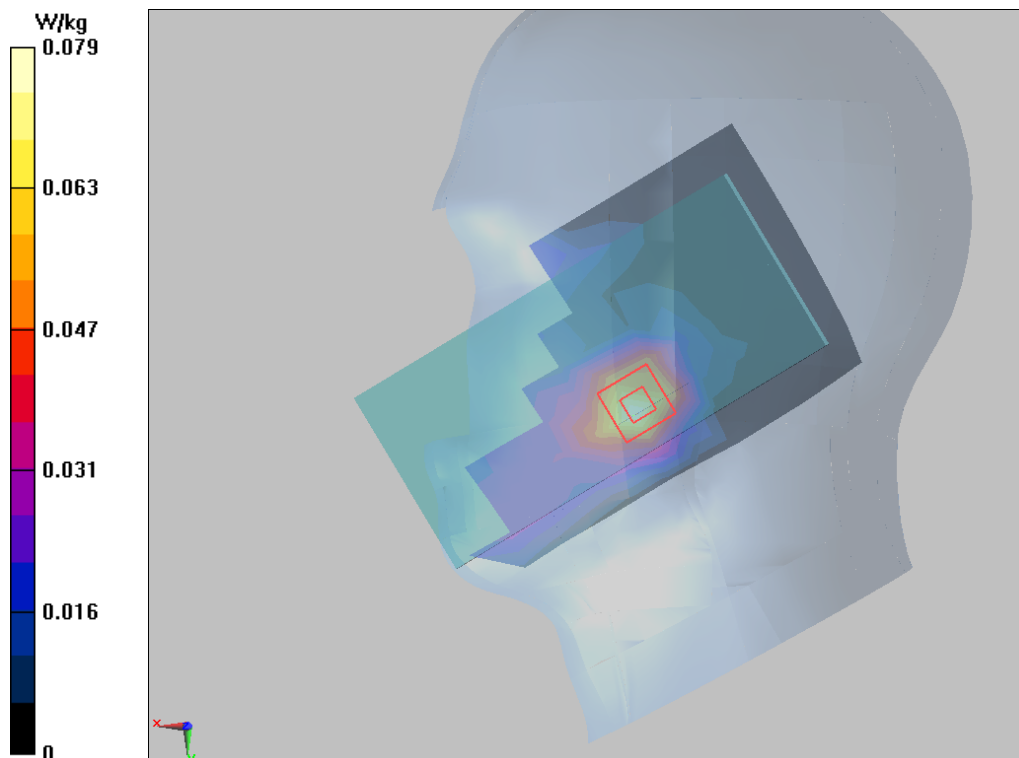
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.122 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.079 W/kg



Plot 54 LTE Band 38 50%RB Back Side High(Distance 15mm, ANT4)

Date: 12/12/2020

Communication System: UID 0, LTE (0); Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 37.993$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side High/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.174 W/kg

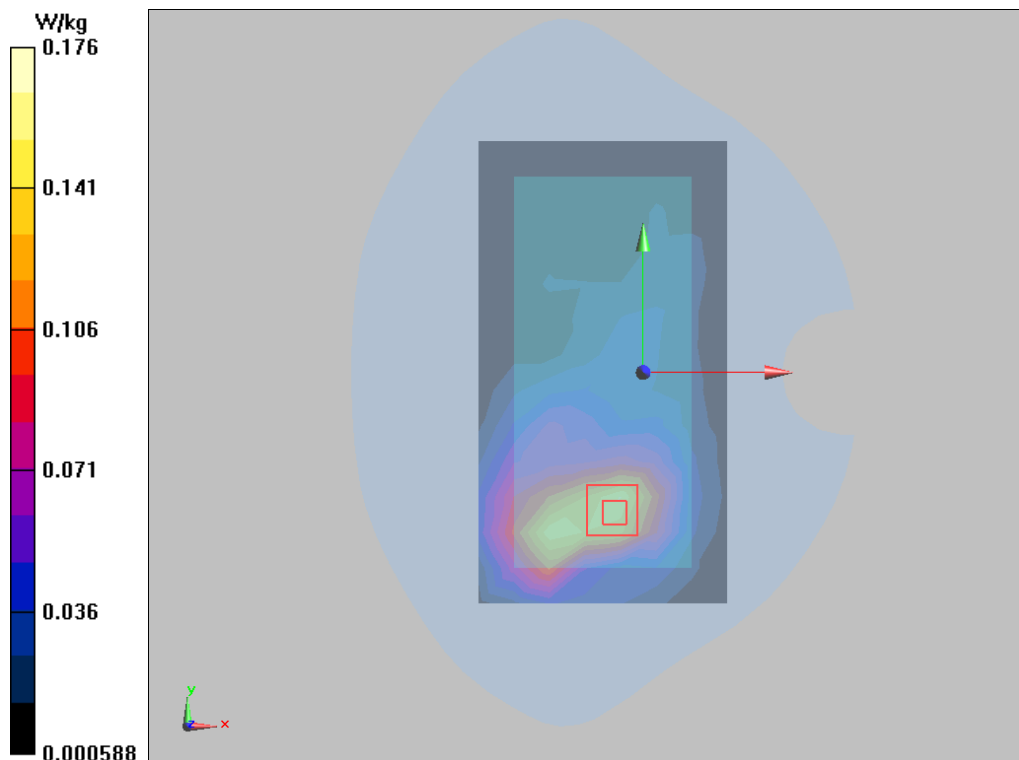
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.184 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.082 W/kg

Maximum value of SAR (measured) = 0.176 W/kg



Plot 55 LTE Band 38 50%RB Back Side High(Distance 10mm, ANT4)

Date: 12/12/2020

Communication System: UID 0, LTE (0); Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 37.993$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side High/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.391 W/kg

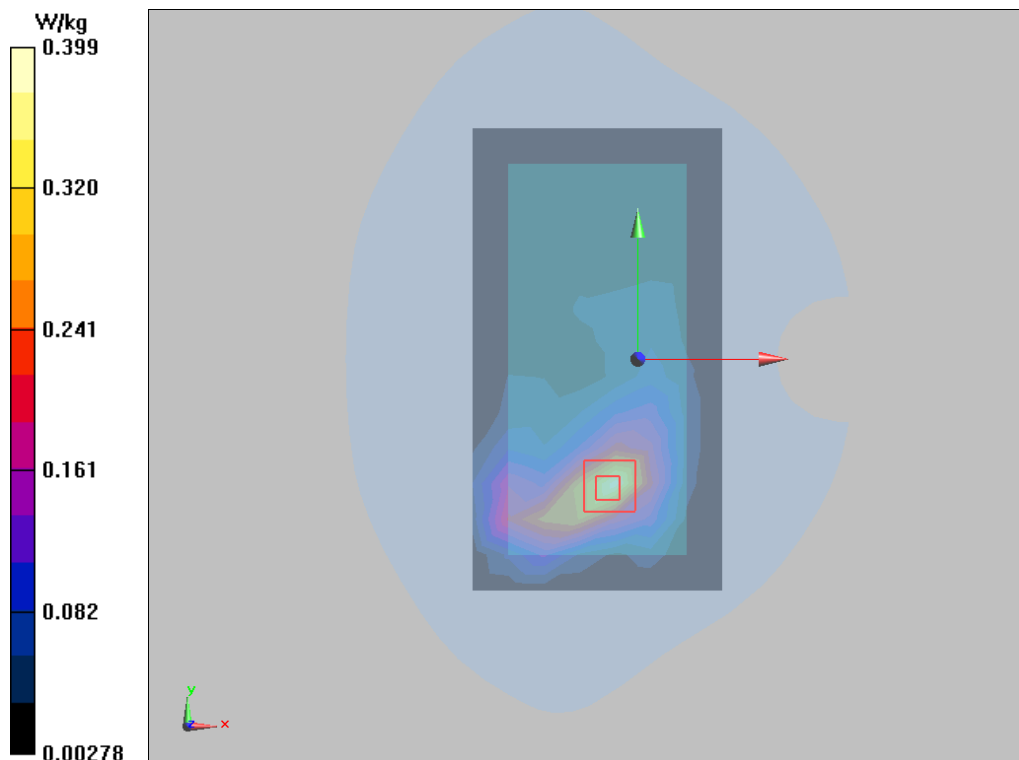
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.447 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.399 W/kg



Plot 56 LTE Band 41 50%RB Right Cheek Middle(ANT4)

Date: 12/26/2020

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 38.05$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

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

Maximum value of SAR (measured) = 0.087 W/kg

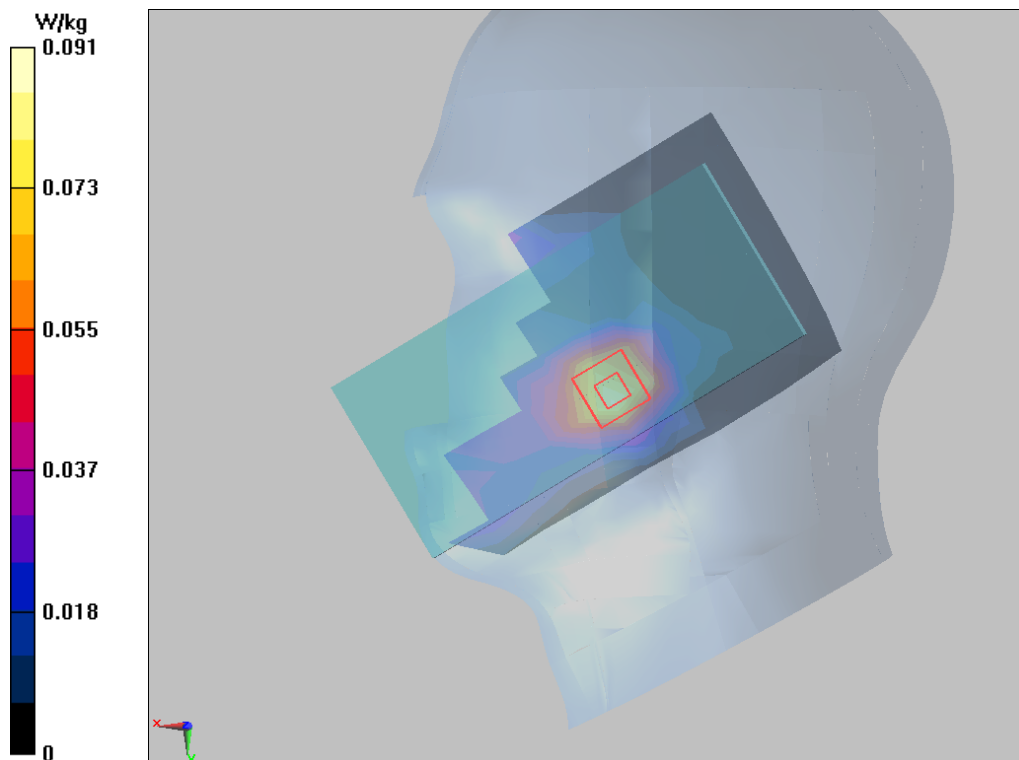
Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.6600 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.091 W/kg



Plot 57 LTE Band 41 1RB Back Side Middle (Distance 15mm, ANT4)

Date: 12/26/2020

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 38.05$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.231 W/kg

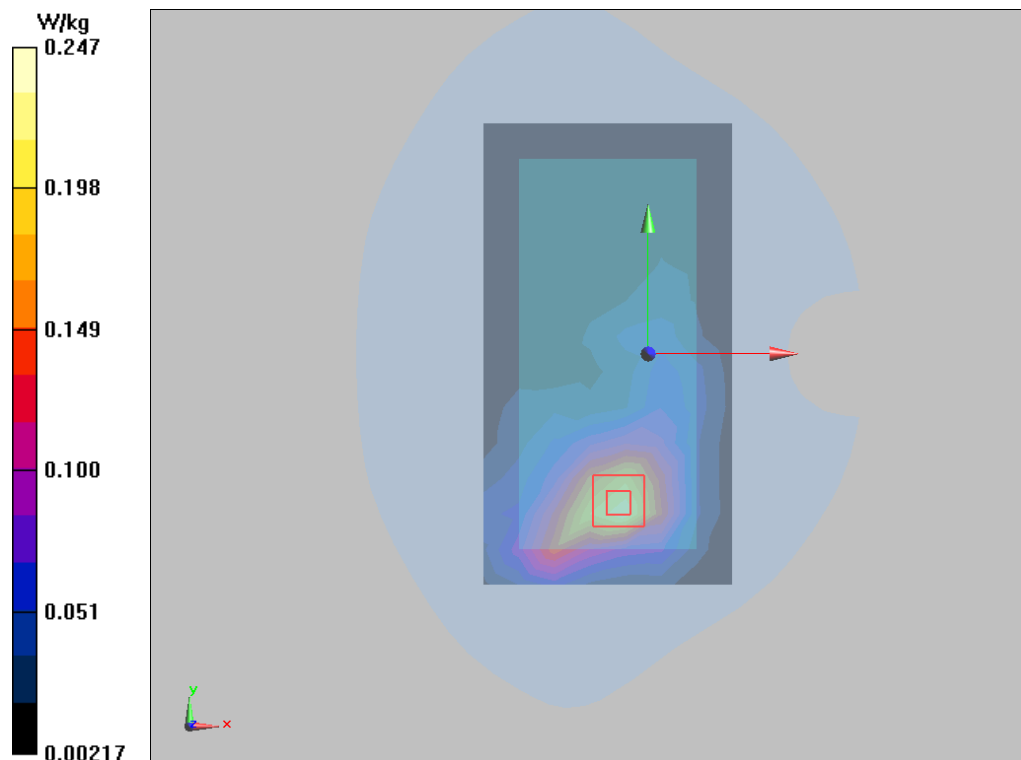
Back Side Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.888 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.247 W/kg



Plot 58 LTE Band 41 1RB Front Side Middle (Distance 10mm, ANT4)

Date: 12/26/2020

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 38.05$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Front Side Middle/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.420 W/kg

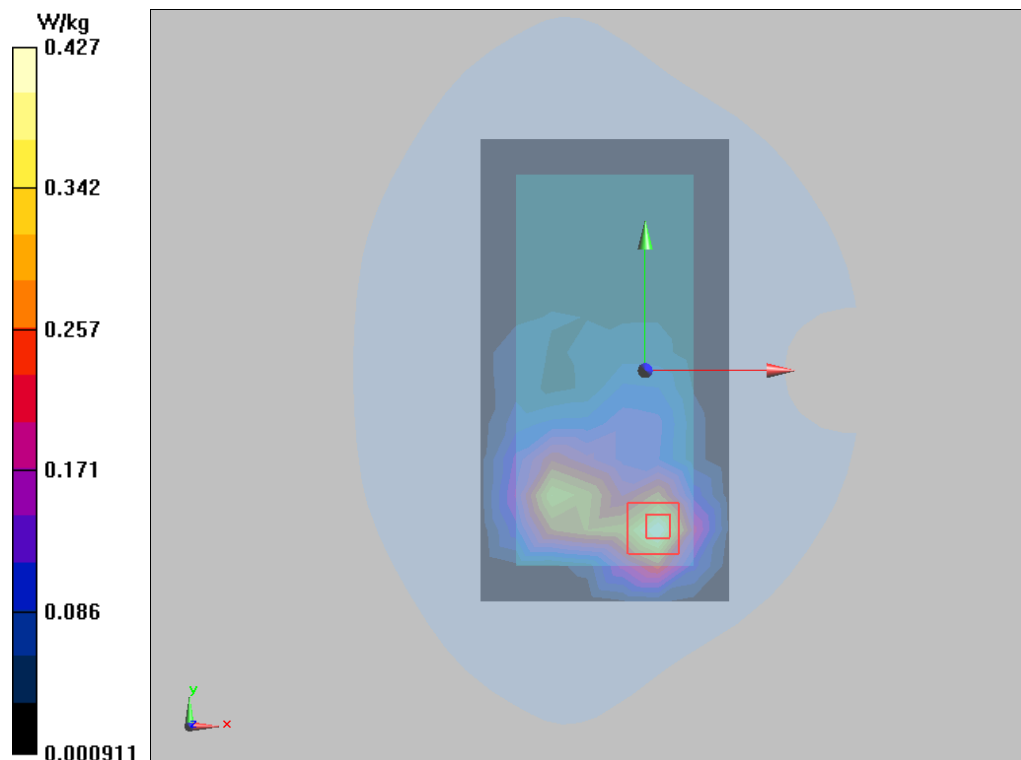
Front Side Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.850 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.427 W/kg



Plot 59 LTE Band 66 1RB Left Cheek Low(ANT4)

Date: 12/23/2020

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.303$ S/m; $\epsilon_r = 39.467$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Left Cheek Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.113 W/kg

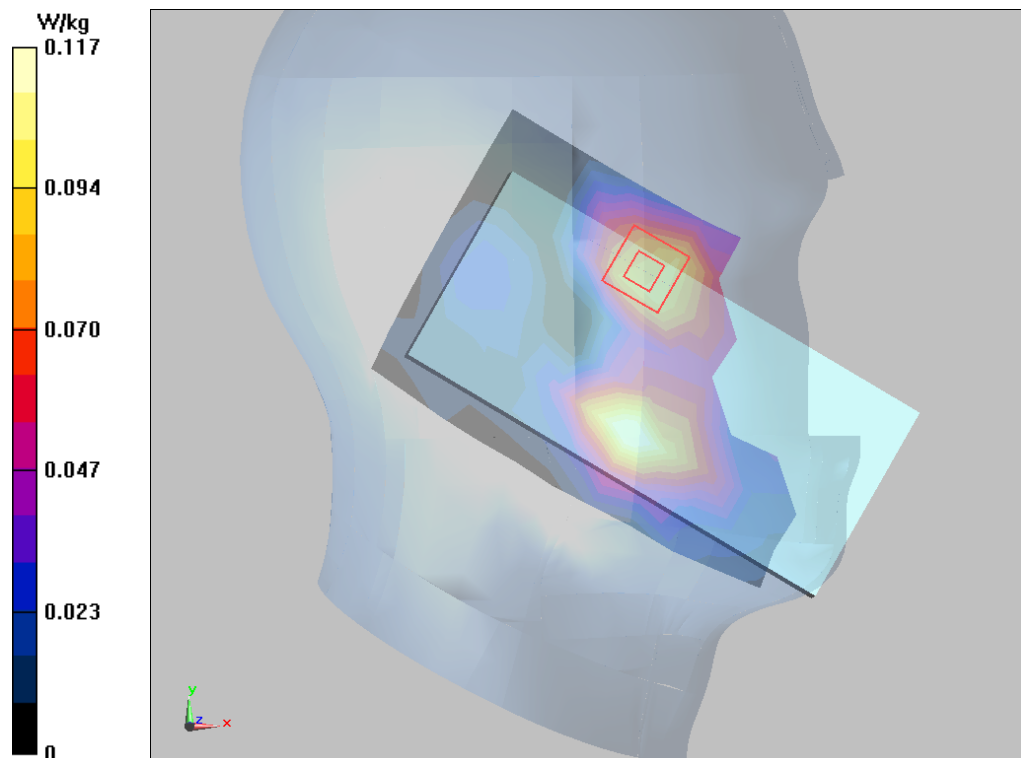
Left Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.642 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 0.0150 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.117 W/kg



Plot 60 LTE Band 66 1RB Back Side Low (Distance 15mm, ANT4)

Date: 12/23/2020

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.303$ S/m; $\epsilon_r = 39.467$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.369 W/kg

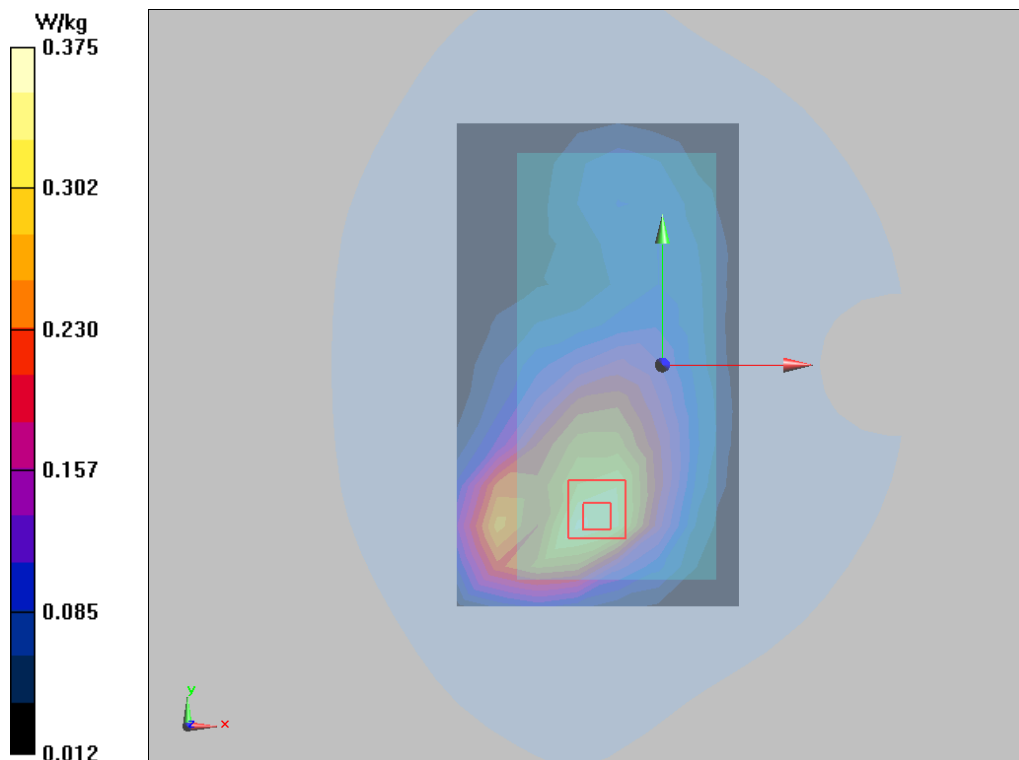
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.56 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.375 W/kg



Plot 61 LTE Band 66 1RB Bottom Edge Low (Distance 10mm, ANT4)

Date: 12/23/2020

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.303$ S/m; $\epsilon_r = 39.467$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.90, 7.90, 7.90); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Bottom Edge Low/Area Scan (4x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.645 W/kg

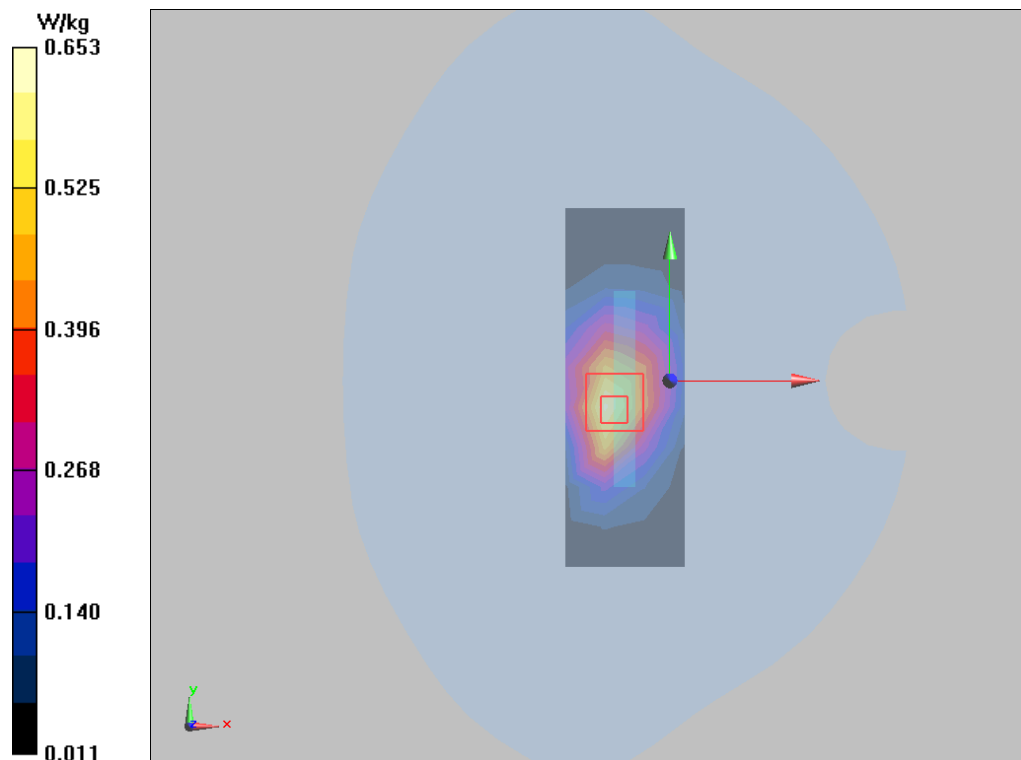
Bottom Edge Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.94 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.980 W/kg

SAR(1 g) = 0.629 W/kg; SAR(10 g) = 0.340 W/kg

Maximum value of SAR (measured) = 0.653 W/kg



Plot 62 GSM 850 Left Cheek Middle(ANT0)

Date: 12/7/2020

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Left Cheek Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.657 W/kg

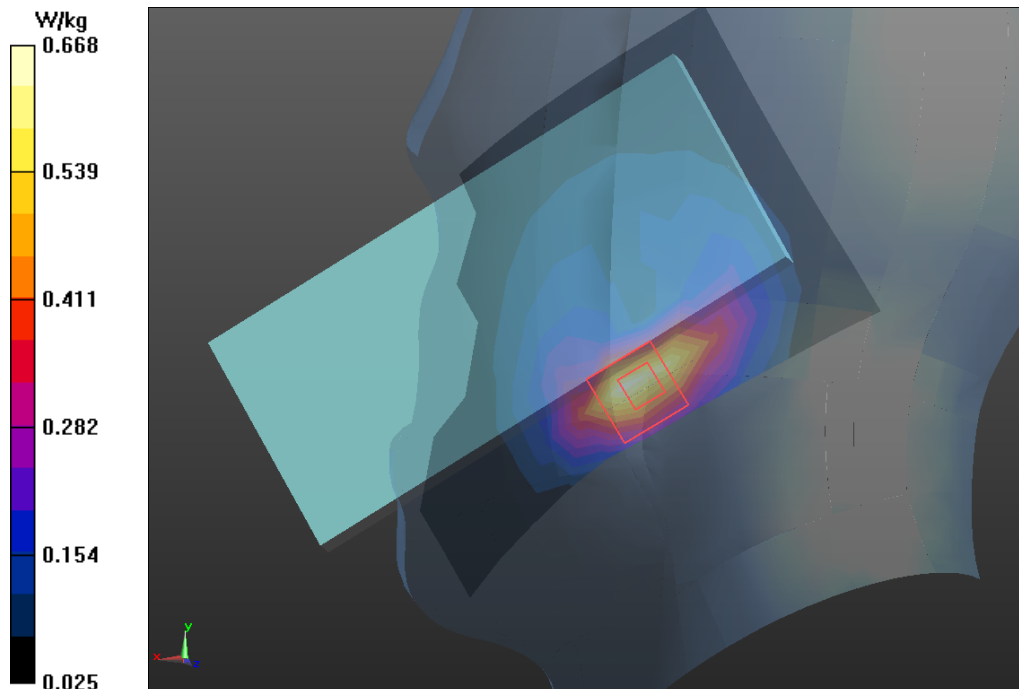
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.745 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.338 W/kg

Maximum value of SAR (measured) = 0.668 W/kg



Plot 63 GSM 850 Back Side Middle (Distance 15mm, ANT0)

Date: 12/7/2020

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.232 W/kg

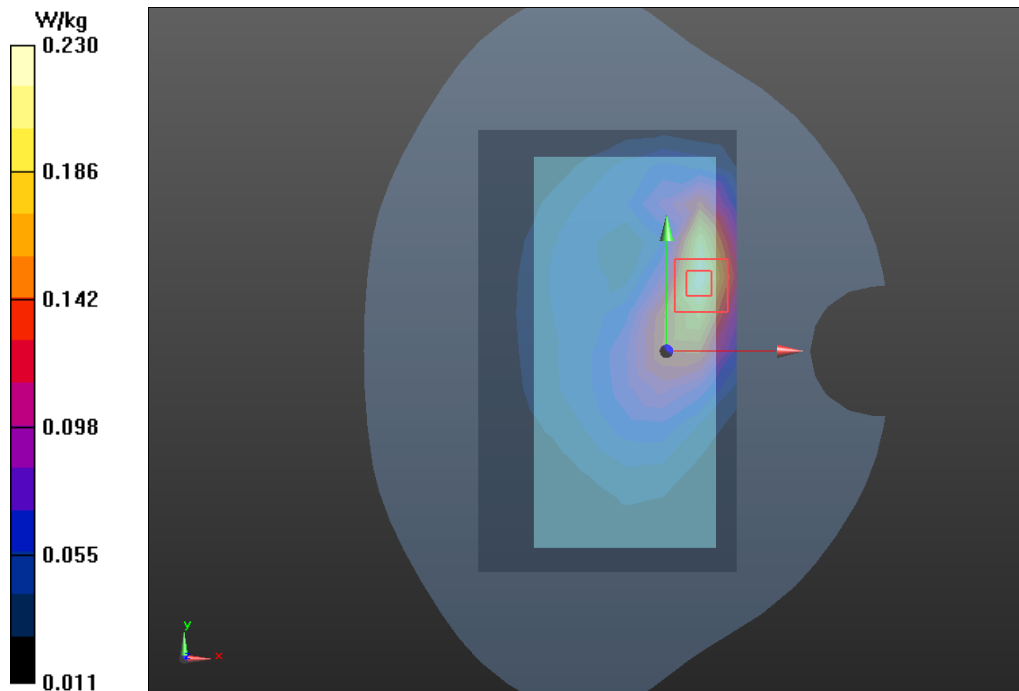
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.566 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.230 W/kg



Plot 64 GSM 850 GPRS (4Txslots) Back Side Middle (Distance 10mm, ANT0)

Date: 12/7/2020

Communication System: UID 0, GPRS 4TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.0

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 42.201$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.331 W/kg

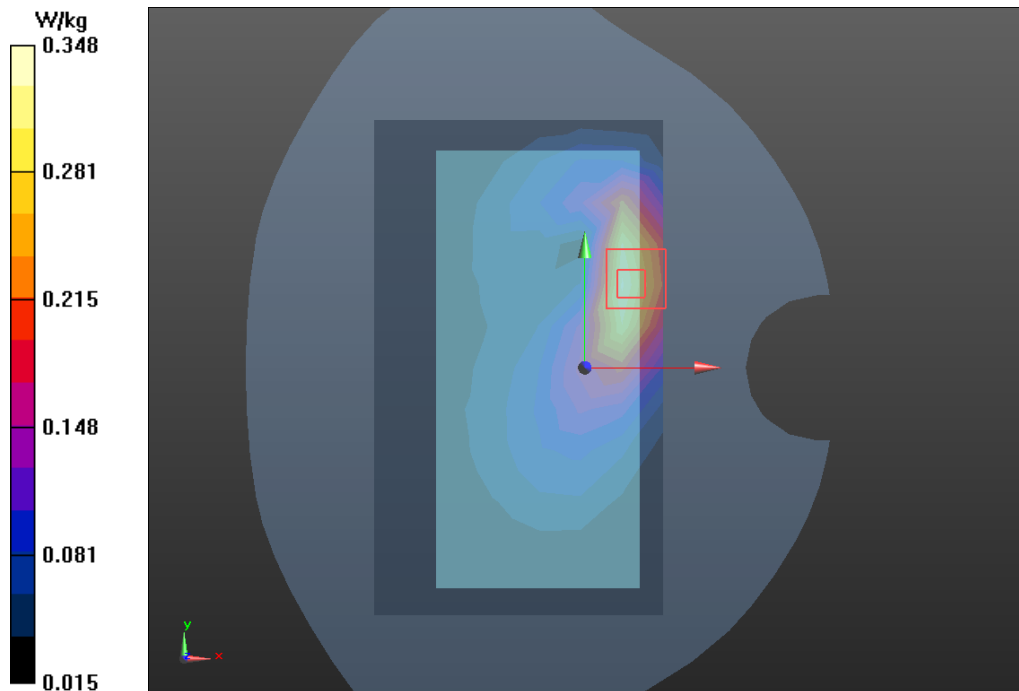
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.420 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.199 W/kg

Maximum value of SAR (measured) = 0.348 W/kg



Plot 65 GSM 1900 Right Tilt Middle(ANT3)

Date: 12/6/2020

Communication System: UID 0, GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Tilt Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.761 W/kg

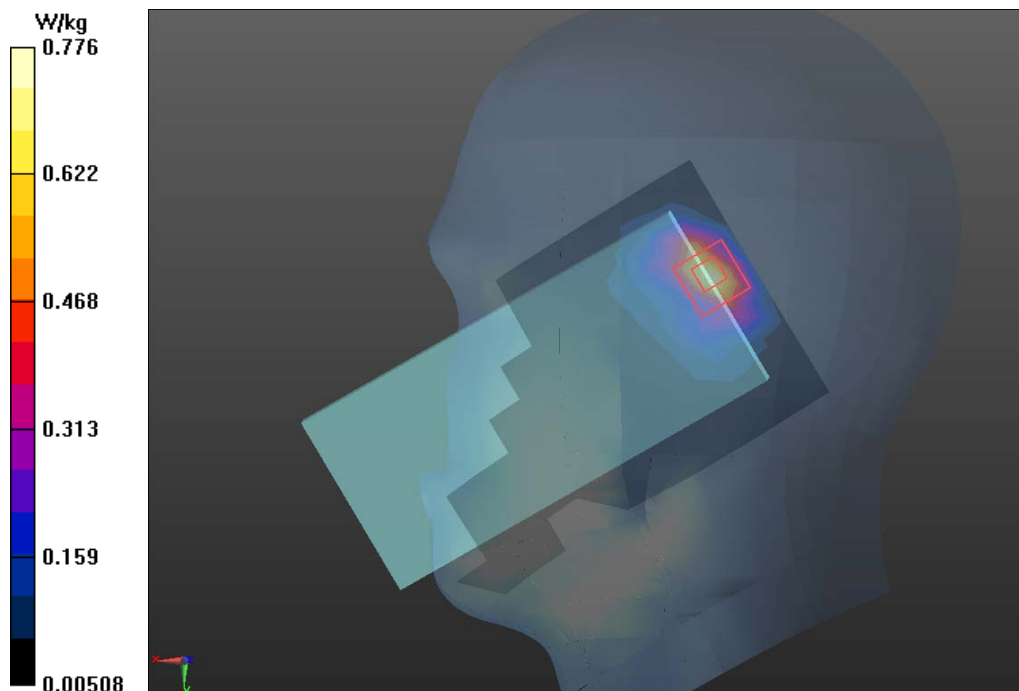
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.83 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.292 W/kg

Maximum value of SAR (measured) = 0.776 W/kg



Plot 66 GSM 1900 Back Side Middle (Distance 15mm, ANT3)

Date: 12/6/2020

Communication System: UID 0, GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.190 W/kg

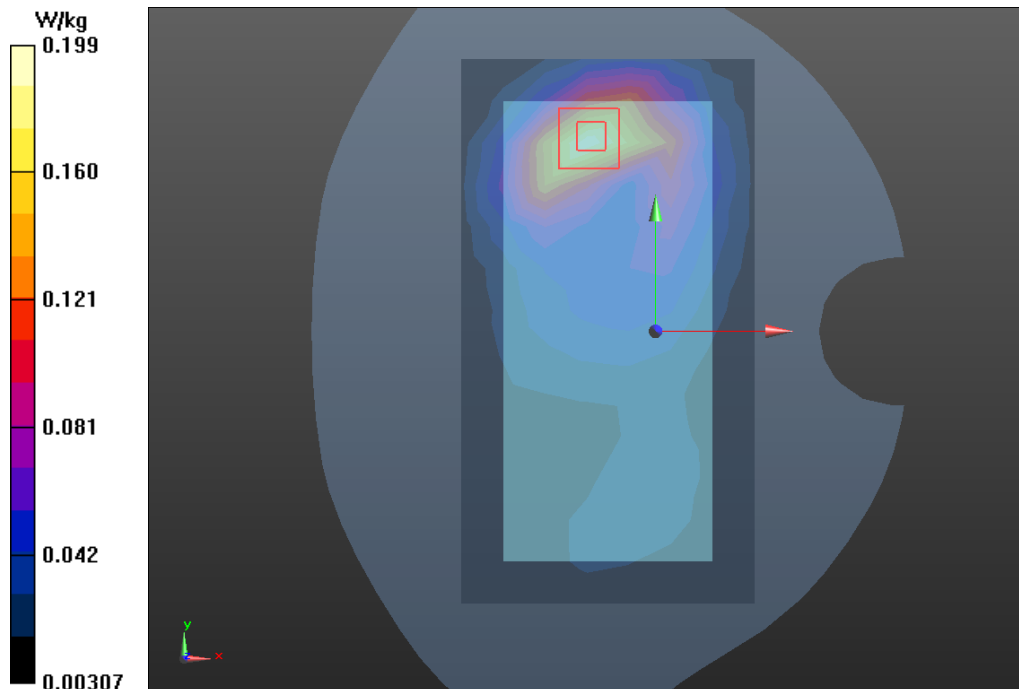
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.632 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.199 W/kg



Plot 67 GSM 1900 GPRS (3Txslots) Top Edge Middle (Distance 10mm, ANT3)

Date: 12/6/2020

Communication System: UID 0, GPRS 3TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.592 W/kg

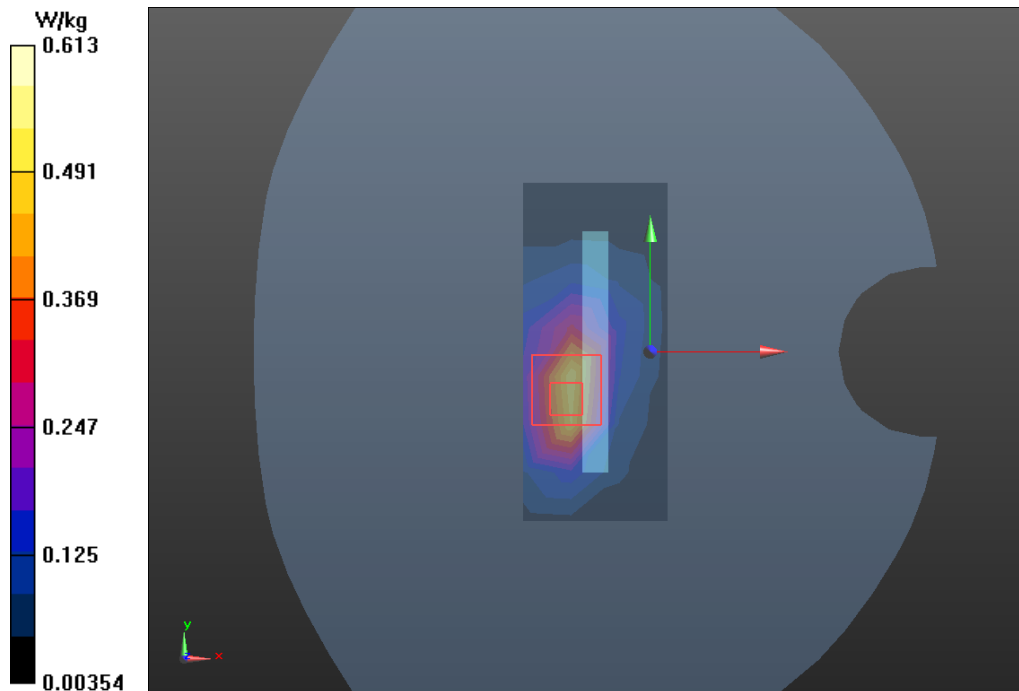
Top Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.71 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.892 W/kg

SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.613 W/kg



Plot 68 UMTS Band II Right Tilt Low(ANT3)

Date: 12/10/2020

Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 39.04$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Tilt Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.860 W/kg

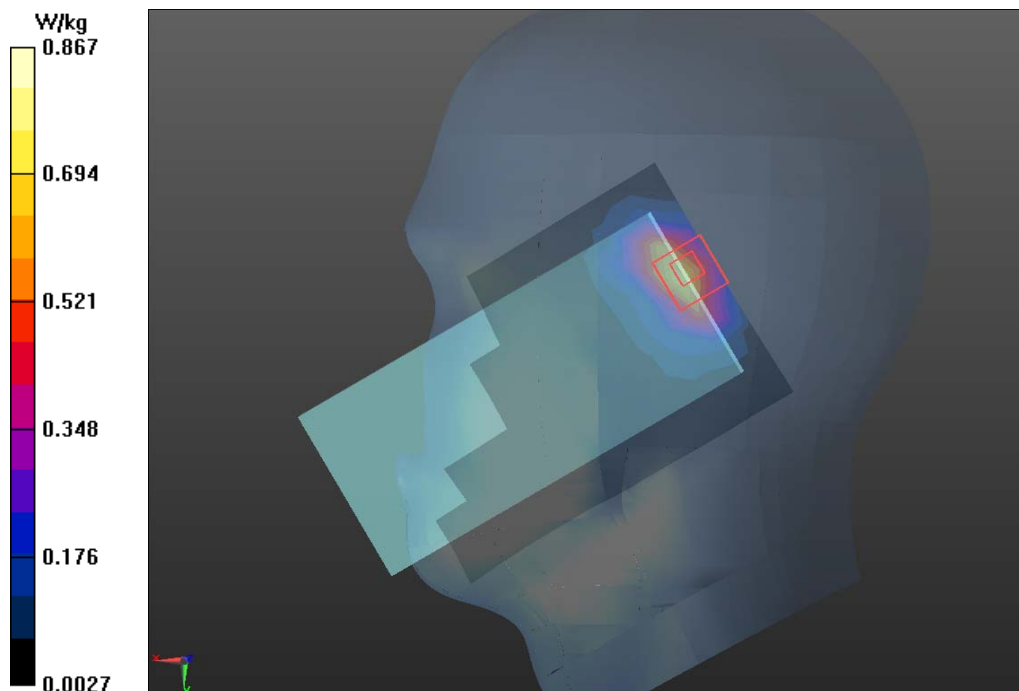
Right Tilt Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.95 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.379 W/kg

Maximum value of SAR (measured) = 0.867 W/kg



Plot 69 UMTS Band II Back Side Middle (Distance 15mm, ANT3)

Date: 12/10/2020

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.179 W/kg

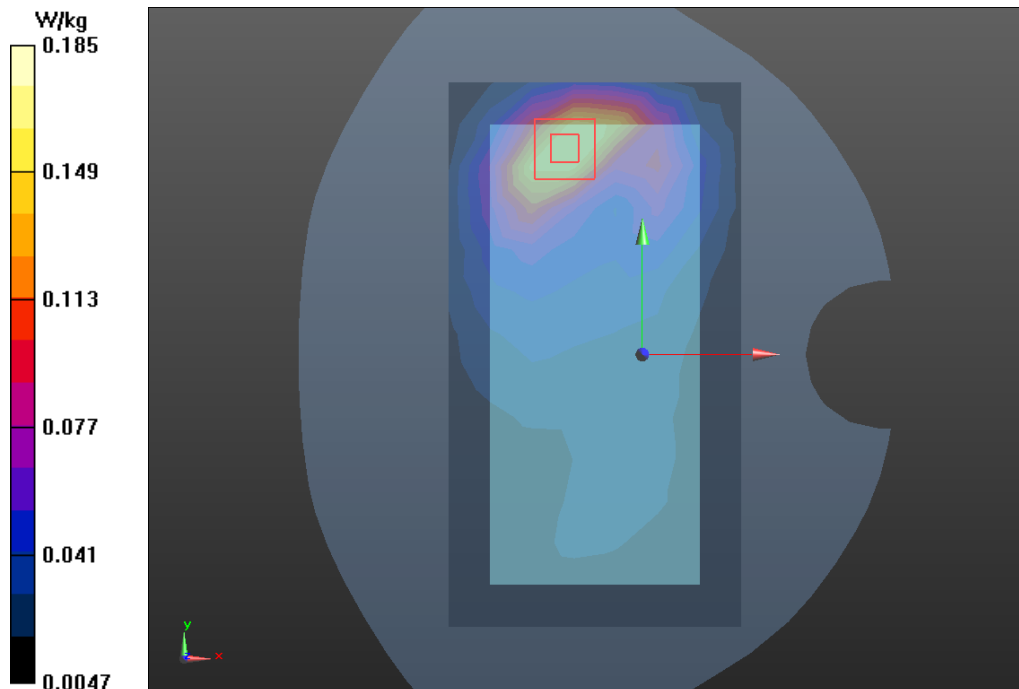
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.300 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.099 W/kg

Maximum value of SAR (measured) = 0.185 W/kg



Plot 70 UMTS Band II Top Edge Middle (Distance 10mm, ANT3)

Date: 12/10/2020

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.344$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.444 W/kg

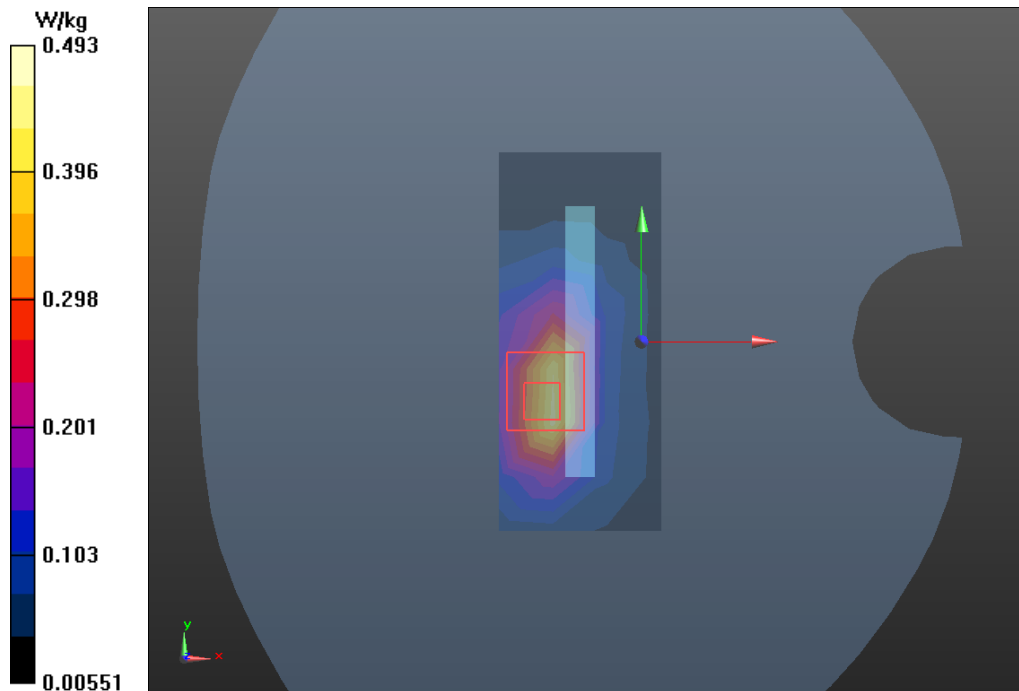
Top Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.56 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.812 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.493 W/kg



Plot 71 UMTS Band IV Right Tilt High(ANT3)

Date: 12/4/2020

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.307$ S/m; $\epsilon_r = 38.724$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Tilt High/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 W/kg

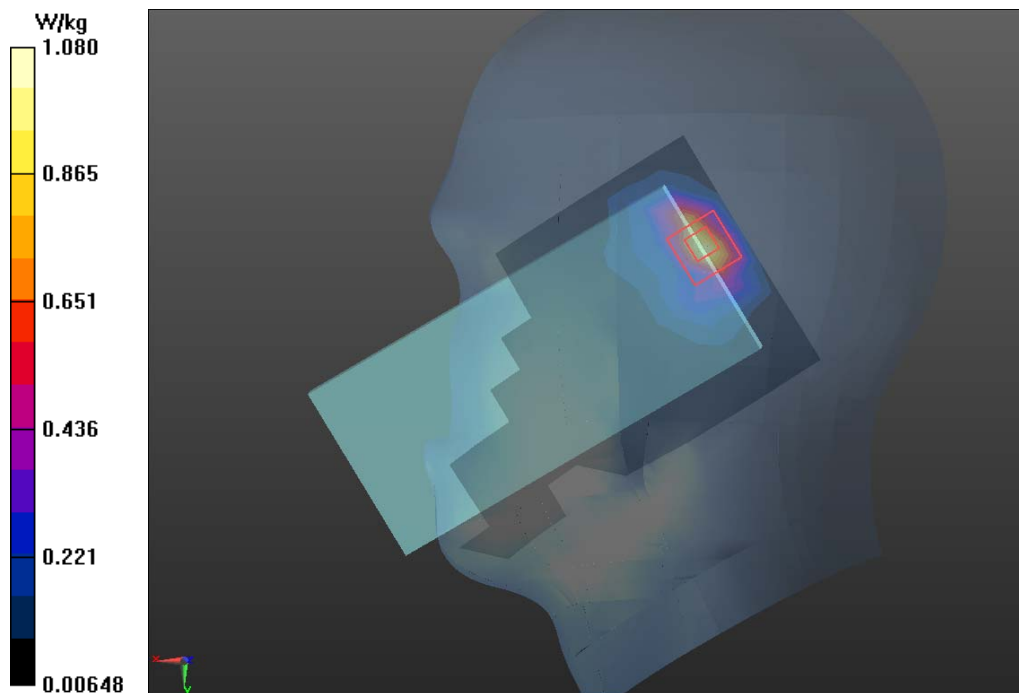
Right Tilt High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.411 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



Plot 72 UMTS Band IV Back Side Middle (Distance 15mm, ANT3)

Date: 12/4/2020

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

Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.293$ S/m; $\epsilon_r = 38.782$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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) = 0.241 W/kg

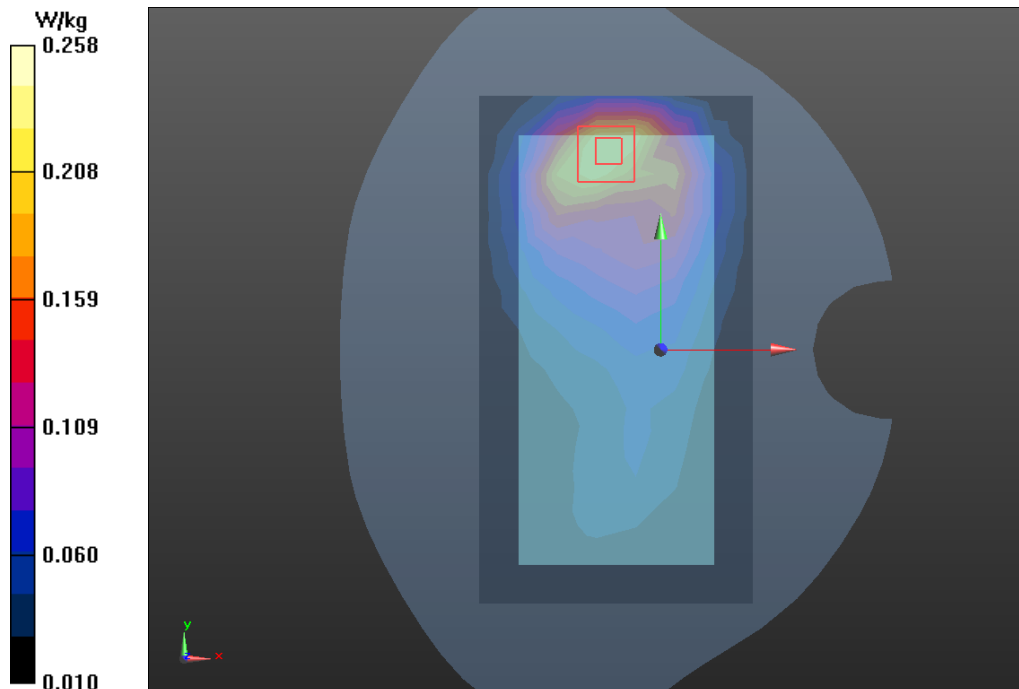
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.645 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.258 W/kg



Plot 73 UMTS Band IV Top Edge High (Distance 10mm, ANT3)

Date: 12/4/2020

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.307$ S/m; $\epsilon_r = 38.724$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge High/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.944 W/kg

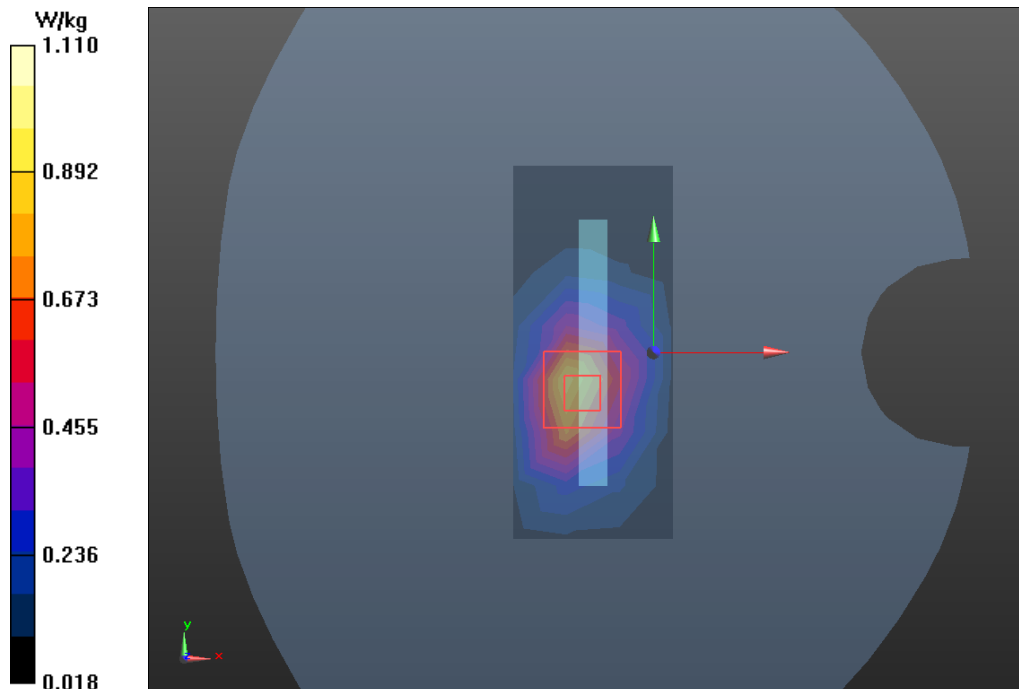
Top Edge High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.83 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.463 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



Plot 74 UMTS Band IV Top Edge Low (Distance 0mm, ANT3)

Date: 12/4/2020

Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.298$ S/m; $\epsilon_r = 39.443$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge Low/Area Scan (4x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.72 W/kg

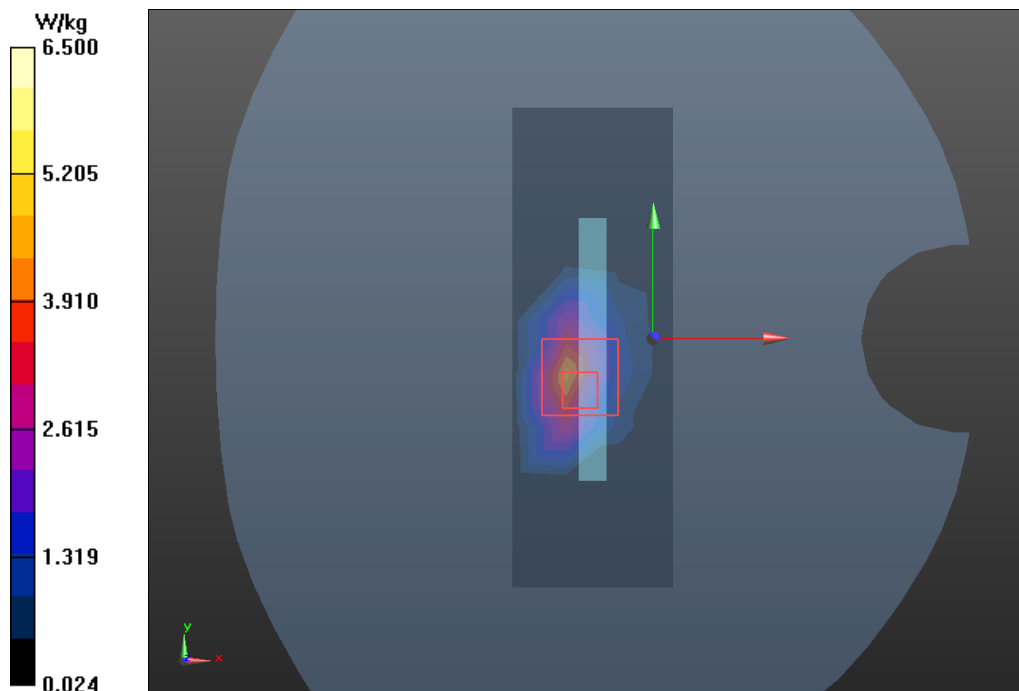
Top Edge Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 52.30 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 14.2 W/kg

SAR(1 g) = 5.29 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 6.50 W/kg



Plot 75 UMTS Band V Left Cheek Middle(ANT0)

Date: 12/8/2020

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Left Cheek Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.698 W/kg

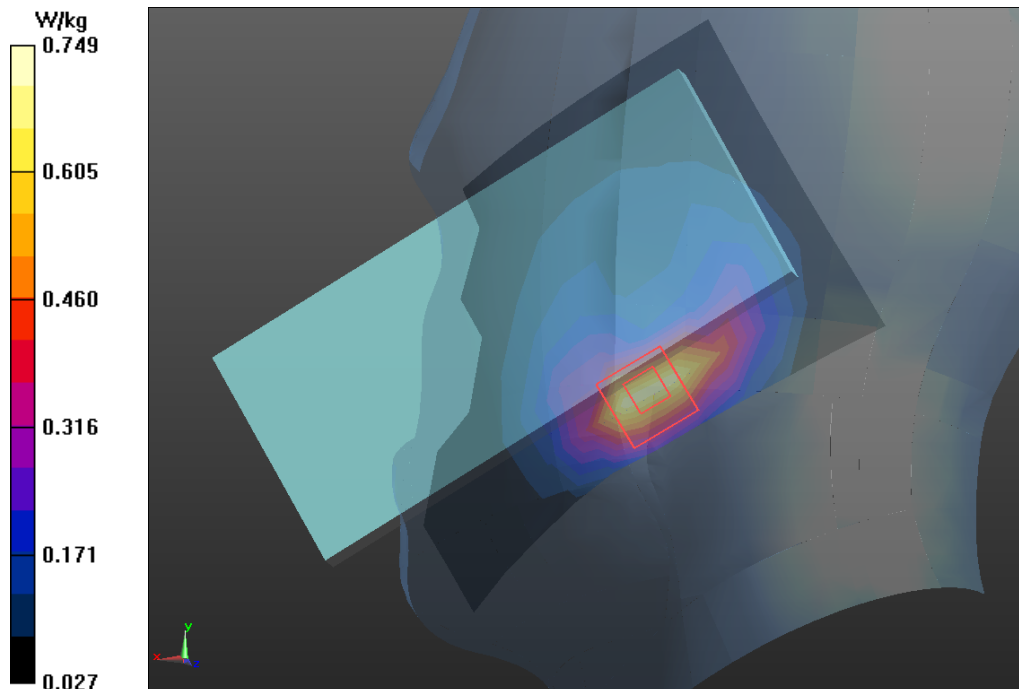
Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.835 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.386 W/kg

Maximum value of SAR (measured) = 0.749 W/kg



Plot 76 UMTS Band V Back Side Middle (Distance 15mm, ANT0)

Date: 12/8/2020

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.239 W/kg

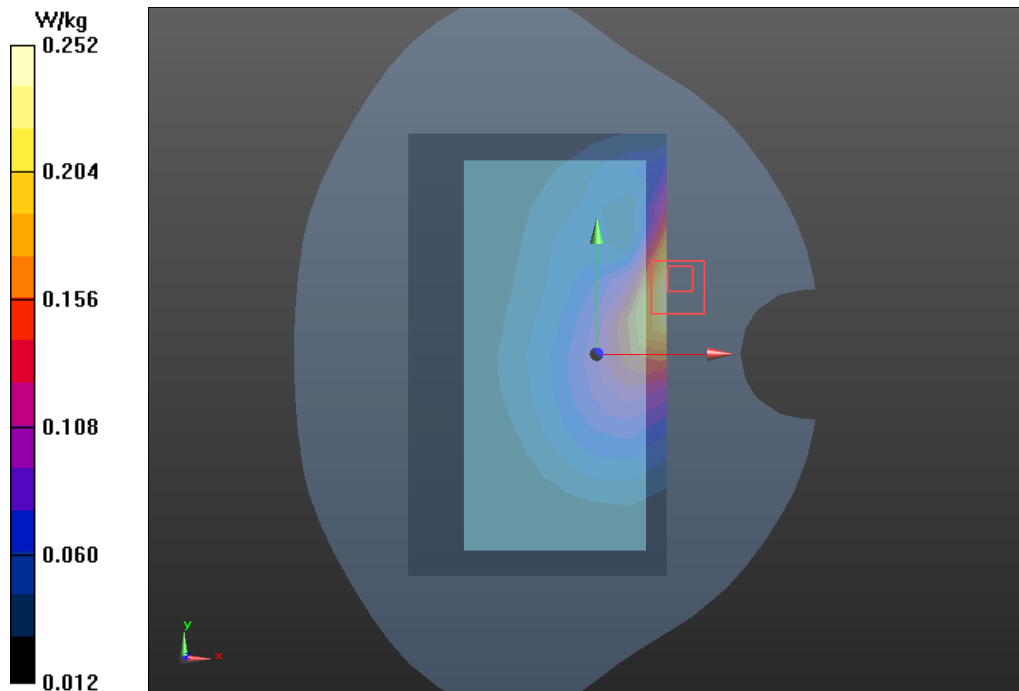
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.241 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.347 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



Plot 77 UMTS Band V Left Edge Middle (Distance 10mm, ANT0)

Date: 12/8/2020

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

Medium parameters used: $f = 837$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Left Edge Middle/Area Scan (4x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.622 W/kg

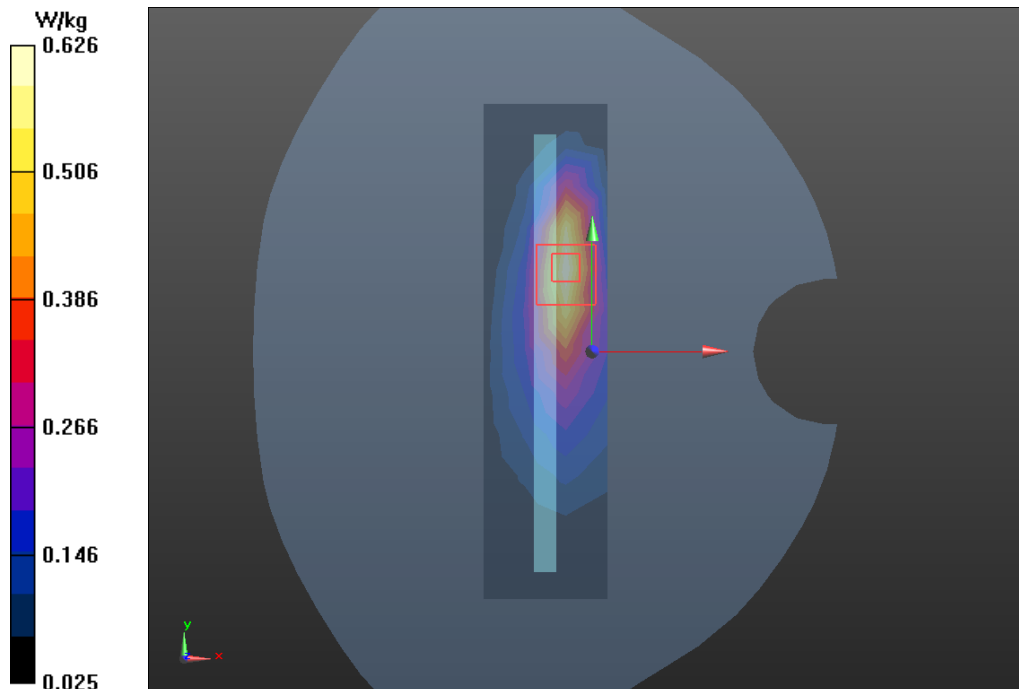
Left Edge Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.34 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.626 W/kg



Plot 78 LTE Band 2 50%RB Right Tilt High (ANT3)

Date: 12/11/2020

Communication System: UID 0, LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 38.294$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Tilt High/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.692 W/kg

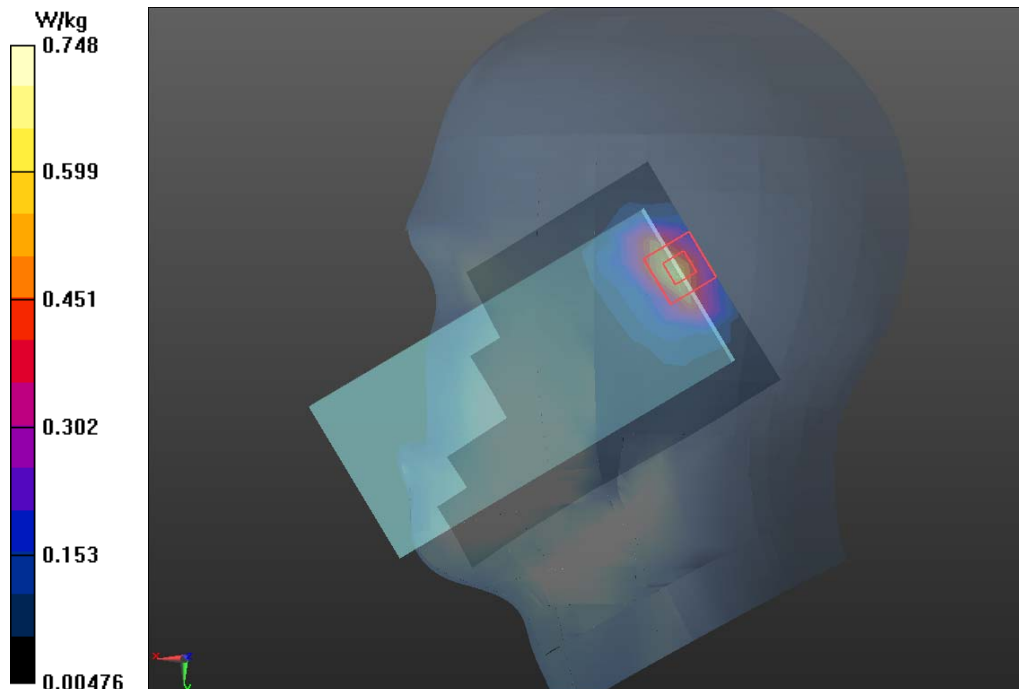
Right Tilt High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.94 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.309 W/kg

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



Plot 79 LTE Band 2 50%RB Back Side Low(Distance 15mm ,ANT3)

Date: 12/11/2020

Communication System: UID 0, LTE (0); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 39.071$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.263 W/kg

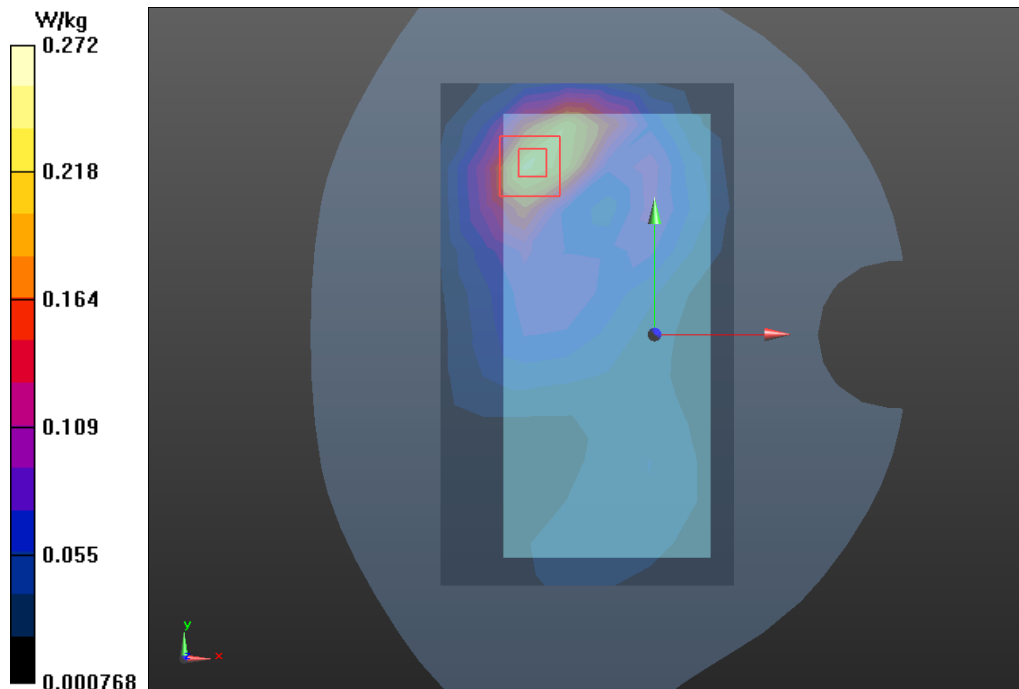
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.083 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.128 W/kg

Maximum value of SAR (measured) = 0.272 W/kg



Plot 80 LTE Band 2 50%RB Top Edge Low (Distance 10mm, ANT3)

Date: 12/11/2020

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 39.071$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.25, 8.25, 8.25); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge Low/Area Scan (4x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.564 W/kg

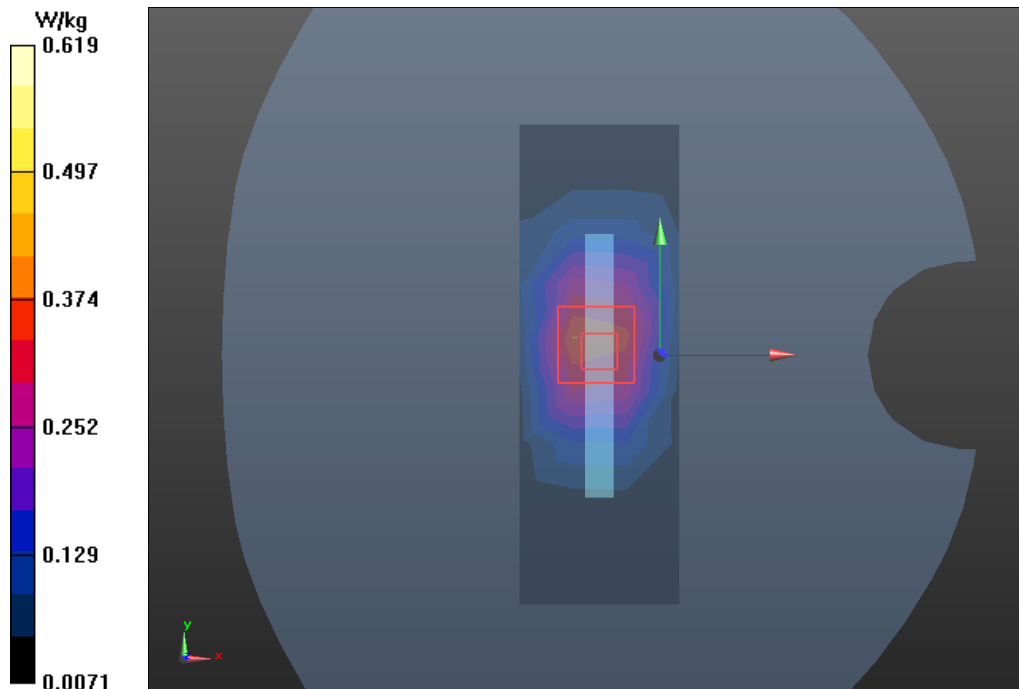
Top Edge Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.34 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.276 W/kg

Maximum value of SAR (measured) = 0.619 W/kg



Plot 81 LTE Band 5 1RB Right Cheek Low (ANT0)

Date: 12/7/2020

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.181$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Right Cheek Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.389 W/kg

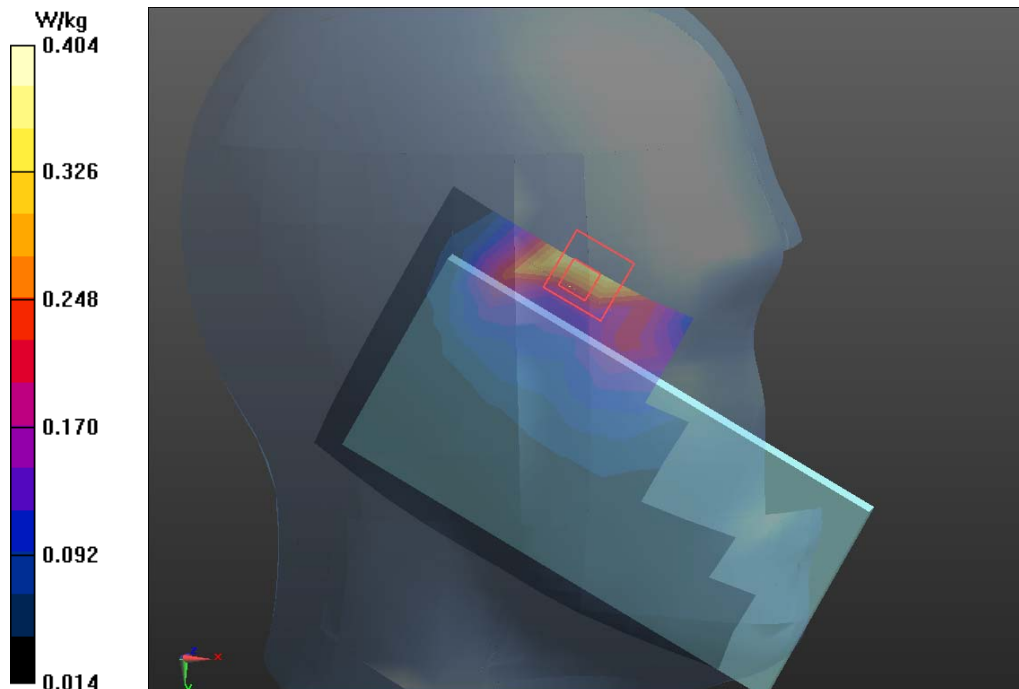
Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.168 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 0.404 W/kg



Plot 82 LTE Band 5 50%RB Back Side Low (Distance 15mm, ANT0)

Date: 12/7/2020

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.181$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.172 W/kg

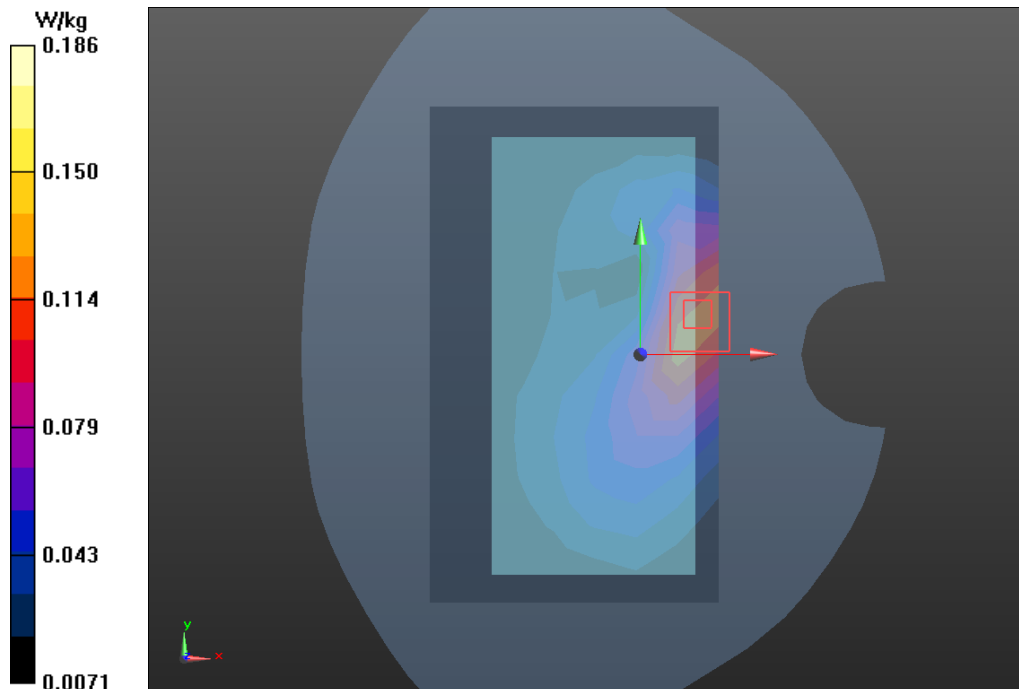
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.750 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.102 W/kg

Maximum value of SAR (measured) = 0.186 W/kg



Plot 83 LTE Band 5 1RB Left Edge Low (Distance 10mm, ANT0)

Date: 12/7/2020

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.181$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.38, 9.38, 9.38); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Left Edge Low/Area Scan (4x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.457 W/kg

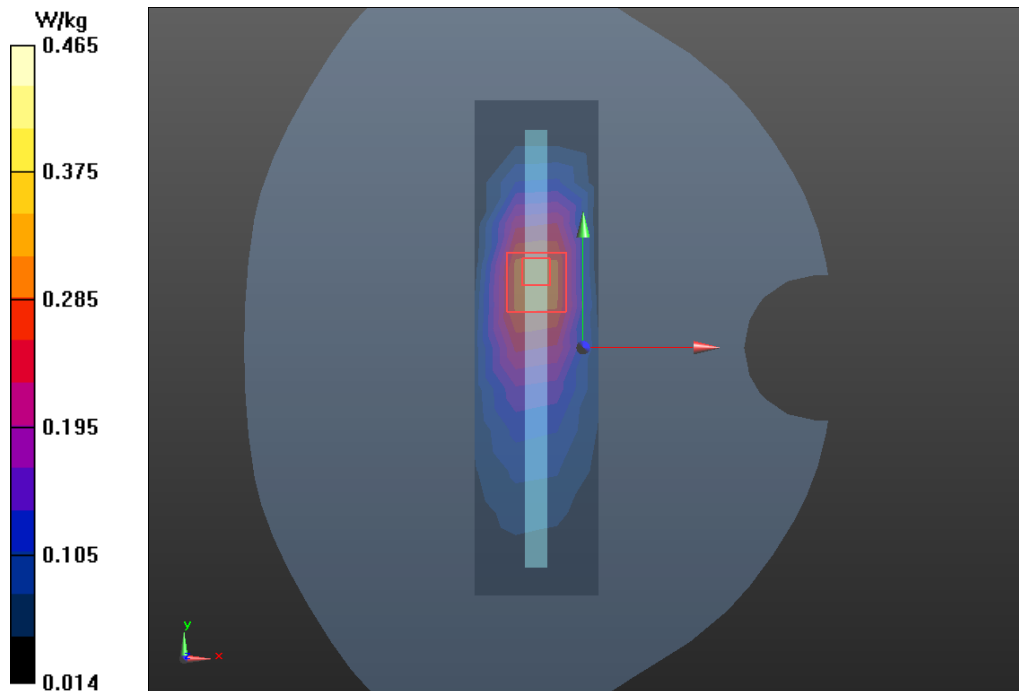
Left Edge Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.02 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.739 W/kg

SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.465 W/kg



Plot 84 LTE Band 7 100%RB Right Tilt Low (ANT3)

Date: 12/25/2020

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

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 38.352$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

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

Maximum value of SAR (measured) = 0.844 W/kg

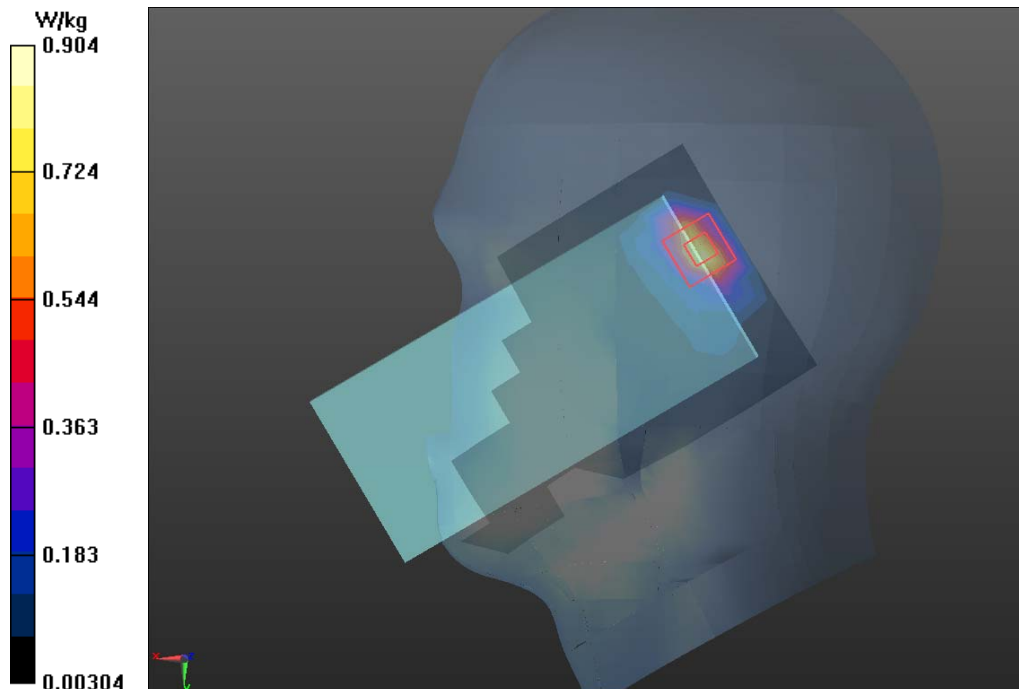
Right Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.79 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.317 W/kg

Maximum value of SAR (measured) = 0.904 W/kg



Plot 85 LTE Band 7 50%RB Back Side High (Distance 15mm, ANT3)

Date: 12/25/2020

Communication System: UID 0, LTE (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.932$ S/m; $\epsilon_r = 38.175$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Back Side High/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.281 W/kg

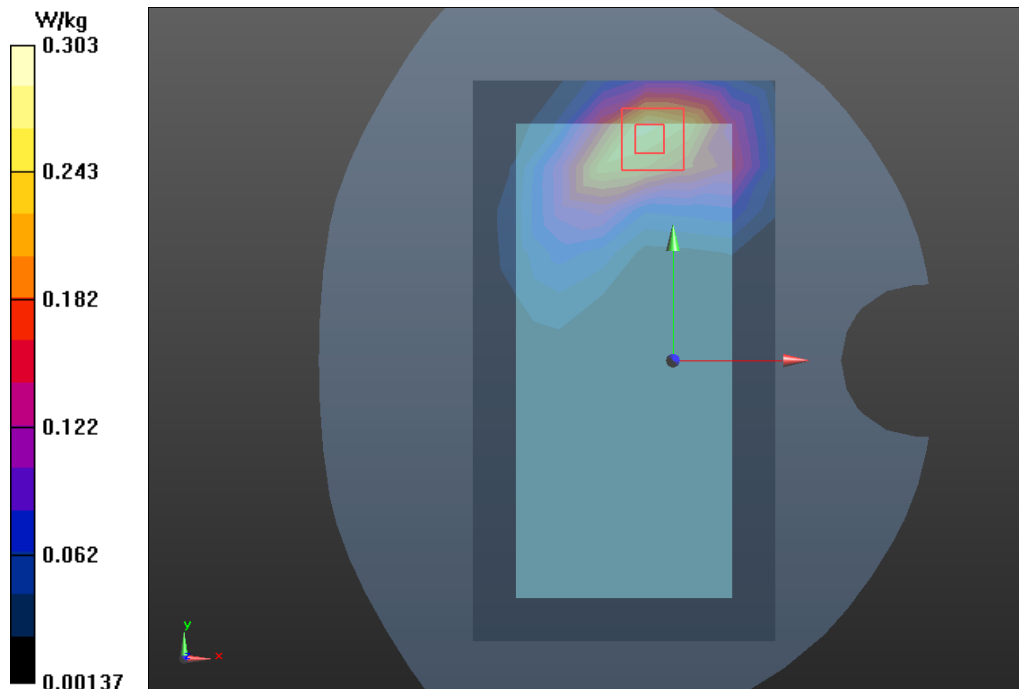
Back Side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.486 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.549 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.303 W/kg



Plot 86 LTE Band 7 50%RB Top Edge Middle (Distance 10mm, ANT3)

Date: 12/25/2020

Communication System: UID 0, LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 1.905 \text{ S/m}$; $\epsilon_r = 38.267$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge Middle/Area Scan (5x10x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.868 W/kg

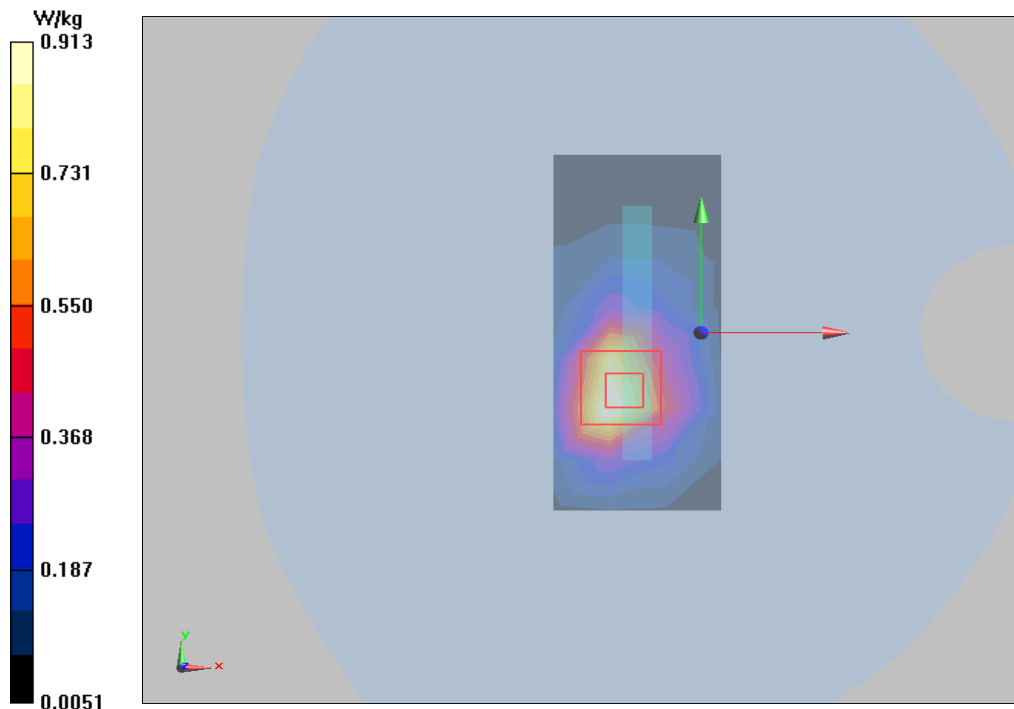
Top Edge Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.70 V/m ; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.762 W/kg ; SAR(10 g) = 0.352 W/kg

Maximum value of SAR (measured) = 0.913 W/kg



Plot 87 LTE Band 7 100%RB Top Edge Low (Distance 0mm, ANT3)

Date: 12/25/2020

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

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 38.352$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.26, 7.26, 7.26); Calibrated: 7/6/2020;

Electronics: DAE4 SN1291; Calibrated: 2/24/2020

Phantom: SAM1; Type: SAM; Serial: TP-1534

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

Top Edge Low/Area Scan (5x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 5.95 W/kg

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

Reference Value = 43.67 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 5.27 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 6.59 W/kg

