

SAR TEST REPORT

Applicant TCL Communication Ltd.

FCC ID 2ACCJH187

Product GSM/UMTS/LTE/NR Mobile phone

Model T513SP

Report No. EFTA25022164-IE-01-S5V1

Issue Date April 18, 2025

Eurofins 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.

Prepared by: Wei Fangying

Approved by: Xu Kai

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	April 16, 2025
Rev.1	Update description.	April 18, 2025
Note: This revised report (Report No.: EFTA25022164-IE-01-S5V1) supersedes and replaces the previously issued report (Report No.: EFTA25022164-IE-01-S5). Please discard or destroy the previously issued report and dispose of it accordingly.		

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 **Eurofins 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)

Eurofins 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)

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

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
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 (Separation 0mm)
GSM 850	0.77	0.22	0.59	NA
GSM 1900	0.64	0.18	0.82	NA
WCDMA Band II	0.88	0.49	0.72	NA
WCDMA Band V	0.73	0.41	0.43	NA
LTE FDD 2	0.72	0.46	0.75	NA
LTE FDD 5	1.04	0.49	0.52	NA
LTE FDD 7	0.97	0.67	1.27	2.47
LTE FDD 12	0.64	0.30	0.30	NA
LTE FDD 13	1.01	0.47	0.53	NA
LTE TDD 48	0.43	0.42	0.62	NA
LTE FDD 4/66	0.63	0.36	0.43	NA
NR n2	1.12	0.72	0.60	NA
NR n5	0.80	0.55	0.55	NA
NR n48	1.05	0.75	0.80	NA
NR n66	0.91	0.46	0.49	NA
NR n77/ n78	0.79	0.51	0.66	NA
Wi-Fi (2.4GHz)	0.82	0.13	0.08	NA
Wi-Fi (5GHz)	0.70	0.69	0.27	NA
Bluetooth	0.15	0.03	0.04	NA

Date of Testing: March 14, 2025 ~ April 8, 2025

Date of Sample Received: February 24, 2025

Note:

- 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.
- All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement

Uncertainties were not taken into account and are published for informational purposes only.

Note:

- 1) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):
 - a) SAR for LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz); NR Band n78 (Frequency range 3300 ~ 3800 MHz) is covered by NR Band n77 (Frequency range: 3300 ~ 4200 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

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

Table 2: Highest Simultaneous Transmission SAR

Exposure Configuration	1g SAR Head	1g SAR Body-worn	1g SAR Hotspot	Product Specific 10-g SAR
Highest Simultaneous Transmission SAR (W/kg)	1.53 (Right Cheek, DC_5A_n2A+ Wi-Fi 5GHz+ Bluetooth)	1.35 (Back Side, DC_5A_n2A+ Wi-Fi 5GHz+ Bluetooth)	1.58 (Back Side, DC_7A_n77A + Wi-Fi 5GHz+ Bluetooth)	2.47 (Back Side, LTE 7)
Note: The detail for simultaneous transmission consideration is described in chapter 10.3.				

3 Description of Equipment Under Test

Client Information

Applicant	TCL Communication Ltd.
Applicant address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer	TCL Communication Ltd.
Manufacturer address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

General Technologies

EUT Stage	Identical Prototype
Model	T513SP
IMEI	IMEI 1: 016644000211802 IMEI 2: 016644000211810
Hardware Version	04
Software Version	9CS4
Antenna Type	Internal Antenna
Wi-Fi Hotspot	Wi-Fi 2.4GHz Wi-Fi 5GHz
Power Class	GSM 850: 4 GSM 1900: 1 WCDMA Band II/V: 3 LTE 2/4/5/7/12/13/48/66: 3 NR n2/n5/n48/n66/n78: 3 NR n77: 2
Power Level	GSM 850: level 5 GSM 1900: level 0 WCDMA Band II/IV/V: all up bits LTE 2/4/5/7/12/13/48/66: max power NR n2/n5/n48/n66/n77/n78: max power
EUT Accessory	
Battery 1	Manufacturer: VEKEN Model: CAC4900013C7 (TLp049F7)
Battery 2	Manufacturer: FENGHUA Model: CAC4900035C9 (TLp049N9)
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)	Rx (MHz)
GSM	850	Voice(GMSK) GPRS(GMSK)	☐ Multi-slot Class:8-1UP ☐ Multi-slot Class:10-2UP	824 ~ 849	869 ~ 894
	1900	EGPRS(GMSK,8PSK)	☒ Multi-slot Class:12-4UP ☐ Multi-slot Class:33-4UP	1850 ~ 1910	1930 ~ 1990
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No				
WCDMA	Band II	QPSK, 16QAM	HSDPA UE Category:24 HSUPA UE Category:7	1850 ~ 1910	1930 ~ 1990
	Band V			824 ~ 849	869 ~ 894
LTE	FDD 2	QPSK, 16QAM, 64QAM, 256QAM	Rel.15 /Category 7	1850 ~ 1910	1930 ~ 1990
	FDD 4			1710 ~ 1755	2110 ~ 2155
	FDD 5			824 ~ 849	869 ~ 894
	FDD 7			2500 ~ 2570	2620 ~ 2690
	FDD 12			699 ~ 716	729 ~ 746
	FDD 13			777 ~ 787	746 ~ 756
	TDD 48			3550 ~ 3700	3550 ~ 3700
	FDD 66			1710 ~ 1780	2110 ~ 2180
	Does this device support Carrier Aggregation (CA) ☒ Yes ☐ No				
Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No					
NR	n2	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	Rel.16	1850 ~ 1910	1930 ~ 1990
	n5			824 ~ 849	869 ~ 894
	n48			3550 ~ 3700	3550 ~ 3700
	n66			1710 ~ 1780	2110 ~ 2180
	n77			3300 ~ 4200	3300 ~ 4200
	n78			3300 ~ 3800	3300 ~ 3800
Bluetooth	2.4GHz	Version 5.1 BR/EDR + LE		2402 ~2480	2402 ~2480
Wi-Fi	2.4GHz	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462	2412 ~ 2462
		OFDM	802.11n HT40	2422 ~ 2452	2422 ~ 2452
	5GHz	OFDM	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5250	5150 ~ 5250
				5250 ~ 5350	5250 ~ 5350
				5470 ~ 5725	5470 ~ 5725
Does this device support MIMO ☐ Yes ☒ No					

Note:

Radio equipment in band n77 is only allowed to operate from 3450 MHz to 3550 MHz for Subset 1;

3700 MHz to 3980 MHz for Subset 2 for the transmitter and receiver.
Radio equipment in band n78 is only allowed to operate from 3450 MHz to 3550 MHz for Subset 1;
3700 MHz to 3800 MHz for Subset 2 for the transmitter and receiver.

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:

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 $> 1.2 \text{ W/kg}$, 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 ($\sim 10\%$ 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 WCDMA 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 WCDMA 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: 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 $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. 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		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600			
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	–	
			23370	345600	–	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	–	
			27952	345600	–	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400			
Category 21	15	1	23370	345600	-	-	QPSK, 16QAM
Category 22	15	1	27952	345600			QPSK, 16QAM, 64QAM
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.

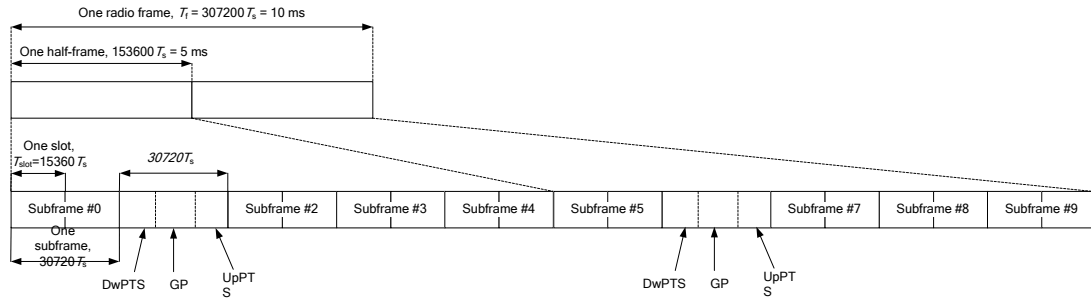


Figure 1: Frame structure type 2

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

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

The screenshot shows the 'LTE Signaling - Configuration' window. The 'Physical Cell Setup' section is highlighted with a red box. The 'TDD' section is also highlighted with a red box. The 'Uplink Downlink Configuration' is set to 0, and the 'Special Subframe' is set to 7. The 'LTE Signaling' status is ON.

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, 16QAM, 64QAM, 256QAM, and BPSK, modulations.

For EN-DC SAR, as the existing SAR test system can not test the multiple different frequency bands simultaneous Transmission SAR at the same time , we suggest that the conservative "max tune-up + max tune-up" for hotspot multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max tune-up + max tune-up" for hotspot multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

5.3.6 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.

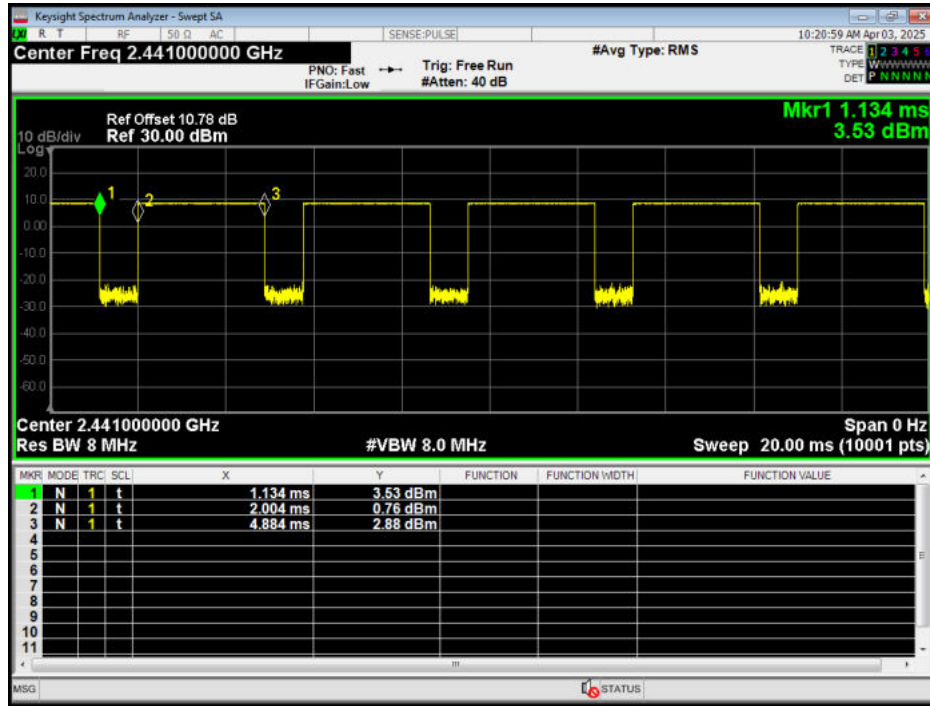
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

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.

5.3.7 Bluetooth Test Configuration

For Bluetooth SAR testing, Bluetooth 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.

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



Note: Duty factor= Ton (ms)/ T(on+off) (ms)=76.8%

5.3.8 LTE CA specification

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

1) CA Intra band contiguous

E-UTRA CA configuration / Bandwidth combination set							
E-UTRA CA configuration	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_2C	5	20				40	0
	10	15, 20					
	15	10, 15, 20					
	20	5, 10, 15, 20					
CA_7B	15	5				20	0
CA_7C	15	15				40	0

	20	20					
	10	20				40	1
	15	15, 20					
	20	10, 15, 20					
	15	10, 15				40	2
	20	15, 20					
CA_48B	10	10				20	0
CA_48C	5, 10, 15, 20	20				40	0
	20	5, 10, 15					

NR CA configuration / Bandwidth combination set							
NR CA configuration	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)	Maximum aggregated bandwidth (MHz)	Bandwidth combination set
CA_n5B	5, 10, 15	5, 10, 15				20	0
	5, 10, 15, 20	5, 10, 15, 20				25	1
	See n5 channel bandwidths in Table 5.3.5-1 for each carrier ¹					25	4 and 5
CA_n66B	5	20, 40				50	0
	10	15, 20, 40					
	15	15, 20					
CA_n48B	5	15, 20				40	0
	10, 15, 20	10, 15, 20					
	15, 20	15, 20					
	10	50, 60, 80, 90				100	1
	15, 20	40, 50, 60, 80					
	40	40, 50, 60					
	10, 15, 20, 30, 40	10, 15, 20, 30, 40, 50, 60, 70, 80, 90				100	2
	See n48 channel bandwidths in Table 5.3.5-1 for each carrier ¹				100	4 and 5	
CA_n77C	50	60, 80, 100				200	0
	60	60, 80, 100					
	80	80, 100					
	100	100					
	10	100				200	1
	15, 20	90, 100					
	25, 30	80, 90, 100					
	40	70, 80, 90, 100					
	50, 60, 70, 80, 90, 100	60, 70, 80, 90, 100					
	See n77 channel bandwidths in Table 5.3.5-1 for each carrier ¹				200	4 and 5	

NOTE 1: The aggregated bandwidth must be greater than or equal to the minimum for the bandwidth class defined in Table 5.3A.5-1, and smaller than or equal to the maximum aggregated bandwidth.

2) CA Intra band non-contiguous

E-UTRA CA configuration / Bandwidth combination set							
E-UTRACA configuration	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_2A-2A	5, 10, 15, 20	5, 10, 15, 20				40	0
CA_4A-4A	5, 10, 15, 20	5, 10, 15, 20				40	0
CA_7A-7A	5	15				40	0
	10	10, 15					
	15	15, 20					
	20	20					
	5, 10, 15, 20	5, 10, 15, 20				40	1
	5, 10, 15, 20	5, 10				30	2
	10, 15, 20	10, 15, 20				40	3
CA_66A-66A	5, 10, 15, 20	5, 10, 15, 20				40	0
CA_48A-48A	5, 10, 15, 20	5, 10, 15, 20				40	0

3) CA Inter-band

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	4			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	4			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
	4			Yes	Yes	Yes	Yes		
CA_2A-5A	2			Yes	Yes	Yes	Yes	30	0
	5			Yes	Yes				
	2			Yes	Yes			20	1
	5			Yes	Yes				
CA_2A-7A	2			Yes	Yes	Yes	Yes	40	0
	7			Yes	Yes	Yes	Yes		
CA_2A-13A	2			Yes	Yes	Yes	Yes	30	0
	13				Yes				
	2			Yes	Yes			20	1
	13				Yes				
CA_2A-66A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	66			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
	66			Yes	Yes	Yes	Yes		
CA_2A-48A	2			Yes	Yes	Yes	Yes	40	0
	48			Yes	Yes	Yes	Yes		
CA_4A-5A	4			Yes	Yes			20	0
	5			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	1
	5			Yes	Yes				
CA_4A-13A	4			Yes	Yes	Yes	Yes	30	0
	13				Yes				
	4			Yes	Yes			20	1
	13				Yes				
CA_4A-48A	4			Yes	Yes	Yes	Yes	40	0
	48			Yes	Yes	Yes	Yes		
CA_5A-66A	5			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		
CA_5A-48A	5			Yes	Yes			30	0

	48			Yes	Yes	Yes	Yes		
CA_7A-13A	7			Yes	Yes	Yes	Yes	30	0
	13			Yes	Yes				
CA_7A-66A	7			Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		
CA_13A-66A	13			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		
CA_13A-48A	13			Yes	Yes			30	0
	48			Yes	Yes	Yes	Yes		
CA_48A-66A	48			Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		

NR CA configuration	NR Band	Channel bandwidth (MHz) (NOTE 1)	Bandwidth combination set
CA_n2A-n5A	n2	5, 10, 15, 20	0
	n5	5, 10, 15, 20	
	n2	n2 channel bandwidths in Table 5.3.5-1	4 and 5
	n5	n5 channel bandwidths in Table 5.3.5-1	
CA_n2A-n48A	n2	5, 10, 15, 20	0
	n48	5, 10, 15, 20, 40, 50 ² , 60 ² , 80 ² , 90 ² , 100 ²	
	n2	5, 10, 15, 20	1
	n48	5, 10, 15, 20, 30, 40, 50 ² , 60 ² , 70 ² , 80 ² , 90 ² , 100 ²	
	n2	n5 channel bandwidths in Table 5.3.5-1	4 and 5
	n48	n48 channel bandwidths in Table 5.3.5-1	
CA_n2A-n66A	n2	5, 10, 15, 20	0
	n66	5, 10, 15, 20, 40	
	n2	5, 10, 15, 20	1
	n66	5, 10, 15, 20, 25, 30, 40	
	n2	See n2 channel bandwidths in Table 5.3.5-1	4 and 5
	n66	See n66 channel bandwidths in Table 5.3.5-1	
CA_n2A-n77A	n2	5, 10, 15, 20	0
	n77	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	
	n2	n2 channel bandwidths in Table 5.3.5-1	4 and 5
	n77	n77 channel bandwidths in Table 5.3.5-1	
CA_n5A-n48A	n5	5, 10, 15, 20	0
	n48	5, 10, 15, 20, 40, 50 ² , 60 ² , 80 ² , 90 ² , 100 ²	
	n5	5, 10, 15, 20	1
	n48	5, 10, 15, 20, 30, 40, 50 ² , 60 ² , 70 ² , 80 ² , 90 ² , 100 ²	
	n5	n5 channel bandwidths in Table 5.3.5-1	4 and 5
	n48	n48 channel bandwidths in Table 5.3.5-1	
CA_n5A-n66A	n5	5, 10, 15, 20	0
	n66	5, 10, 15, 20, 40	
	n5	5, 10, 15, 20	1

NR CA configuration	NR Band	Channel bandwidth (MHz) (NOTE 1)	Bandwidth combination set
	n66	5, 10, 15, 20, 25, 30, 40	4 and 5
	n5	n5 channel bandwidths in Table 5.3.5-1	
	n66	n66 channel bandwidths in Table 5.3.5-1	
CA_n5A-n77A	n5	5, 10, 15, 20	0
	n77	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	
	n5	n5 channel bandwidths in Table 5.3.5-1	4 and 5
	n77	n77 channel bandwidths in Table 5.3.5-1	
CA_n48A-n66A	n48	5, 10, 15, 20, 40, 50 ² , 60 ² , 80 ² , 90 ² , 100 ²	0
	n66	5, 10, 15, 20, 40	
	n48	5, 10, 15, 20, 40, 50 ² , 60 ² , 80 ² , 90 ² , 100 ²	1
	n66	5, 10, 15, 20, 25, 30, 40	
	n48	5, 10, 15, 20, 30, 40, 50 ² , 60 ² , 70 ² , 80 ² , 90 ² , 100 ²	2
	n66	5, 10, 15, 20, 25, 30, 40,	
	n48	See n48 channel bandwidths in Table 5.3.5-1	4 and 5
	n66	See n66 channel bandwidths in Table 5.3.5-1	
CA_n48A-n77A	n48	5, 10, 15, 20, 30, 40, 50 ² , 60 ² , 70 ² , 80 ² , 90 ² , 100 ²	0
	n77	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	
	n48	See n48 channel bandwidths in Table 5.3.5-1	4 and 5
	n77	See n77 channel bandwidths in Table 5.3.5-1	
CA_n66A-n77A	n66	5, 10, 15, 20, 40	0
	n77	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	
	n66	5, 10, 15, 20, 25, 30, 40	1
	n77	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	
	n66	n66 channel bandwidths in Table 5.3.5-1	4 and 5
	n77	n77 channel bandwidths in Table 5.3.5-1	
NOTE 1: For each channel bandwidth of each component carrier, refer to Table 5.3.5-1 for the applicable SCSs. For a given band, not all UE channel bandwidths support the same SCSs.			
NOTE 2: For this bandwidth, the minimum requirements are restricted to operation when carrier is configured as an downlink SCell part of CA configuration			

For downlink carrier aggregation, SAR is not required for downlink carrier aggregation in active uplink maximum output power not more than 1/4dB higher than the maximum output power measured when downlink carrier aggregation inactive.

5.3.9 SAR Detection Mechanism Specification

This device support the G-sensor, receiver and hotspot detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios and provide enhanced user experience.

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 on.
- 2) Body SAR is mainly determined by whether the Receiver off or Receiver off + Hotspot on.

Description of power reduction scenarios

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.

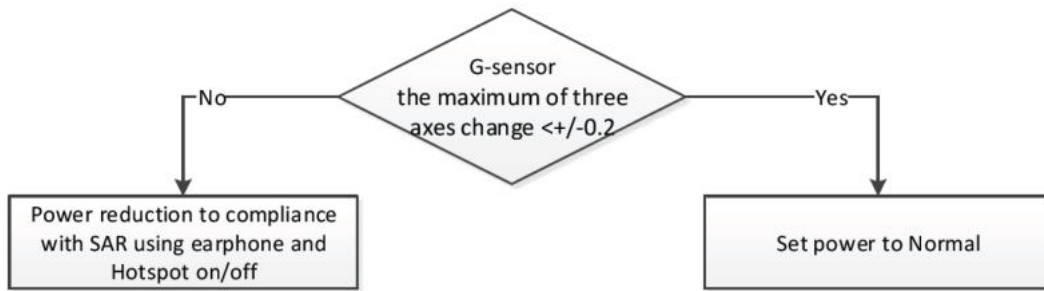
In order to judge whether the mobile phone is on the person's body, the method of using G-sensor is proposed as follows.

First, G-sensor can judge if the phone is "moving" or not by axes x, y, z variation. If we set the judgment conditions to be sensitive enough, then all of user cases which phone proximity to human body are in "moving".

Main user cases of Mobile phone and the maximum of three axes(x, y, z) change from G-sensor is as below table:

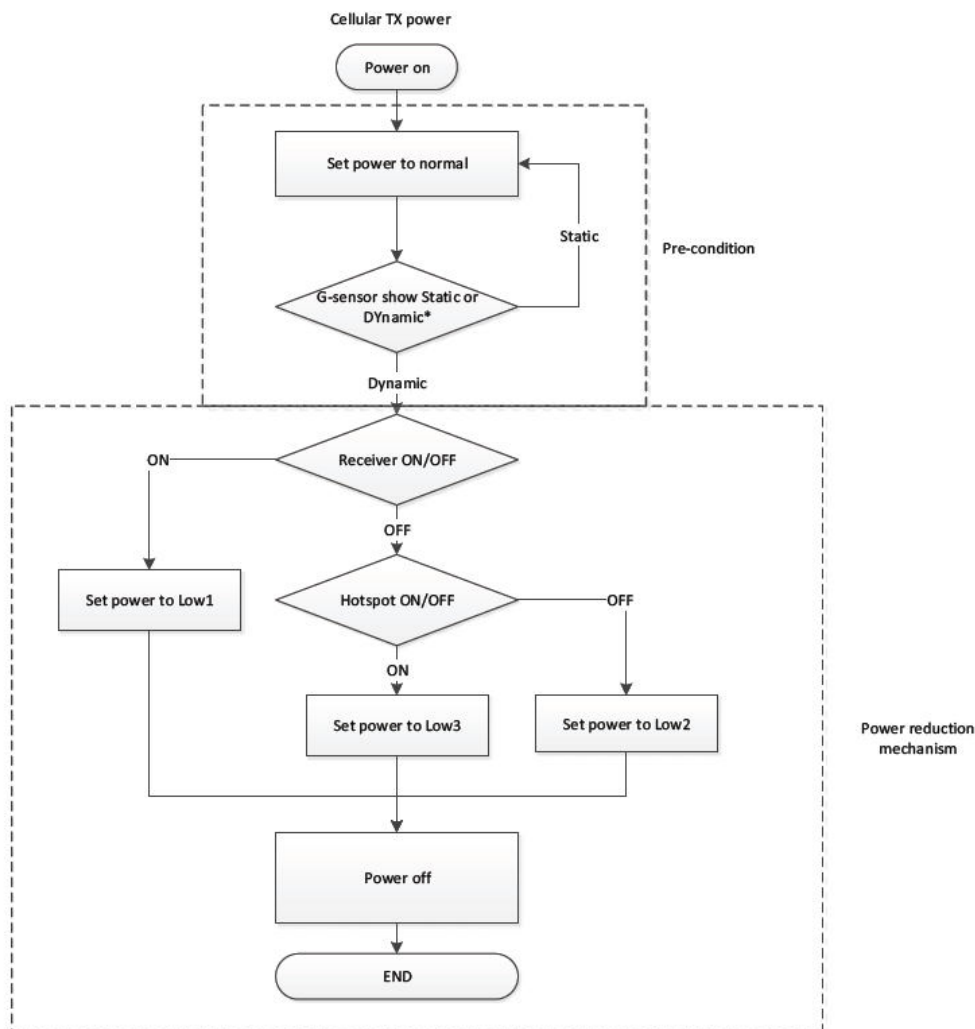
User Case	Making call and beside head and hand	Browsing	In people's pockets(Sit still)	Leaving the body and putting on a stationary table	Leaving the body and putting in a moving place
The maximum of three axes change from G-sensor	$> \pm 0.5$	$> \pm 0.5$	$> \pm 0.5$	$\pm 0.05 \sim 0.1$	$> \pm 0.5$
Power reduction is on or off	On	On	On	Off	On

We choose the maximum of three axes change $\leq \pm 0.2$ as judgment conditions. Detect interval is 200ms.



When the maximum of three axes change $\leq \pm 0.2$, the user case MUST be mobile phone stay away from the body, but if it is $> \pm 0.2$, it MAY be on the person's body, power reduction is on.

Detail Power reduction mechanism



*When it is in “static” state, the detection frequency is 200ms. When it is In “Dynamic” state, the detection frequency is 30s.

More details information followings:

WWAN Reduced power level table					
Antenna	Position	G-sensor State	Receiver State	Hotspot State	Transmitting conditions
ANT0	Head SAR	On	On	Off	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Hotspot SAR	On	Off	On	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Body-worn/Product-specific 10g SAR	On	Off	Off	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
ANT2	Head SAR	On	On	Off	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Hotspot SAR	On	Off	On	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Body-worn/Product-specific 10g SAR	On	Off	Off	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
ANT4	Head SAR	On	On	Off	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Hotspot SAR	On	Off	On	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Body-worn/Product-specific 10g SAR	On	Off	Off	WWAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G

Mode	Band	Normal power (G-sensor static) (Tune up)	Antenna	Head (G-sensor move + Receiver on)			Body-worn/Product-specific 10g SAR (G-sensor move + Receiver off)			Hotspot (G-sensor move + Receiver off + Hotspot on)		
				Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission	
					WWAN+	WWAN+		WWAN+	WWAN+			
					2.4G WLAN	5G WLAN		2.4G WLAN	5G WLAN			
GSM (CS)	GSM 850	32.5	Ant.0	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GSM (CS)	GSM 1900	30.0	Ant.2	27.8	27.8	27.8	30.0	30.0	30.0	30.0	30.0	30.0
12.2kbps RMC	WCDMA B2	23.0	Ant.2	20.0	20.0	20.0	23.0	23.0	23.0	23.0	23.0	23.0
12.2kbps RMC	WCDMA B5	23.5	Ant.0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
LTE Bands	LTE B2	24.5	Ant.2	19.5	19.5	19.5	23.5	23.5	23.5	22.5	22.5	22.5
		23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	LTE B4	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B5	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	LTE B7	23.5	Ant.4	20.5	20.5	20.5	21.5	21.5	21.5	20.5	20.5	20.5
	LTE B12	24.0	Ant.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
	LTE B13	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B66	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
		23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
SA Bands	n 2	24.0	Ant.2	20.0	20.0	20.0	24.0	24.0	24.0	21.5	21.5	21.5
		23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 5	24.5	Ant.0	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5
	n 48	24.0	Ant.2	21.0	21.0	21.0	23.0	23.0	23.0	22.0	22.0	22.0
	n 66	24.0	Ant.2	21.0	21.0	21.0	24.0	24.0	24.0	22.0	22.0	22.0
		23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	21.5	21.5	21.5
	n 77	27.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
	n 78	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_2A_n2A	LTE B2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 2	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	21.5	21.5	21.5
DC_5A_n2A	LTE B5	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 2	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	21.5	21.5	21.5
DC_13A_n2A	LTE B13	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 2	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	21.5	21.5	21.5
DC_48A_n2A	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	n 2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
DC_66A_n2A	LTE B66	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 2	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	21.5	21.5	21.5
DC_2A_n5A	LTE B2	24.5	Ant.2	19.5	19.5	19.5	23.5	23.5	23.5	22.5	22.5	22.5
	n 5	24.5	Ant.0	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5
DC_48A_n5A	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5

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	n 5	24.5	Ant.0	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5
DC_66A_n5A	LTE B66	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	n 5	24.5	Ant.0	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5
DC_2A_n66A	LTE B2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 66	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	22.0	22.0	22.0
DC_5A_n66A	LTE B5	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 66	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	22.0	22.0	22.0
DC_7A_n66A	LTE B7	23.5	Ant.4	17.5	17.5	17.5	19.5	19.5	19.5	18.5	18.5	18.5
	n 66	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	21.5	21.5	21.5
DC_13A_n66A	LTE B13	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 66	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	22.0	22.0	22.0
DC_48A_n66A	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	n 66	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	21.5	21.5	21.5
DC_66A_n66A	LTE B66	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 66	24.0	Ant.2	17.5	17.5	17.5	24.0	24.0	24.0	22.0	22.0	22.0
DC_2A_n77A	LTE B2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 77	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_5A_n77A	LTE B5	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 77	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_7A_n77A	LTE B7	23.5	Ant.4	17.5	17.5	17.5	19.5	19.5	19.5	18.5	18.5	18.5
	n 77	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_13A_n77A	LTE B13	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 77	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_66A_n77A	LTE B66	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	n 77	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_5A_n78A	LTE B5	25.0	Ant.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0
	n 78	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
DC_7A_n78A	LTE B7	23.5	Ant.4	17.5	17.5	17.5	19.5	19.5	19.5	18.5	18.5	18.5
	n 78	24.0	Ant.2	18.0	18.0	18.0	20.0	20.0	20.0	19.0	19.0	19.0
CA_2A-4A	LTE B2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	LTE B4	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
CA_2A-5A	LTE B2	24.5	Ant.2	19.5	19.5	19.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B5	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
CA_2A-13A	LTE B2	24.5	Ant.2	19.5	19.5	19.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B13	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
CA_2A-48A	LTE B2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
CA_2A-66A	LTE B2	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
	LTE B66	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
CA_4A-5A	LTE B4	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B5	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
CA_4A-13A	LTE B4	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B13	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

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CA_5A-66A	LTE B5	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	LTE B66	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
CA_13A-66A	LTE B13	25.0	Ant.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	LTE B66	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
CA_48A-66A	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5
	LTE B66	23.5	Ant.1	23.5	23.5	23.5	22.5	22.5	22.5	20.5	20.5	20.5
CA_48C	LTE B48	24.5	Ant.2	20.5	20.5	20.5	23.5	23.5	23.5	22.5	22.5	22.5

WLAN Reduced power level table

Antenna	Position	G-sensor State	Receiver State	Hotspot State	Transmitting conditions
ANT7	Head SAR	On	On	Off	WLAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Hotspot SAR	On	Off	On	WLAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G
	Body-worn/Product-specific 10g SAR	On	Off	Off	WLAN Only
					WWAN+WLAN2.4G
					WWAN+WLAN5G

WLAN Reduced power level table

Mode	Band	Normal power (G-sensor static) (Tune up)	Antenna	Head (G-sensor move + Receiver on)		Body-worn/Product-specific 10g SAR (G-sensor move + Receiver off)		Hotspot (G-sensor move + Receiver off+Hotspot on)	
				Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
					WWAN+ 2.4/5G WLAN		WWAN+ 2.4/5G WLAN		WWAN+ 2.4/5G WLAN
2.4G	802.11b	18.5	Ant.7	18.5	9.5	18.5	10.5	14.5	14.5
	802.11g	18.5		17.5	8.5	18.5	9.5	13.5	13.5
	802.11nHT20	18.5		17.5	8.5	18.5	9.5	13.5	13.5
	802.11nHT40	15.5		15.5	7.5	15.5	8.5	11.5	11.5
5G U-NII-1&2A	802.11a	18.0	Ant.7	13.5	10.0	18.0	11.0	14.5	14.5
	802.11nHT20	18.0		13.5	9.0	18.0	10.0	12.5	12.5
	802.11nHT40	17.0		13.5	9.0	17.0	10.0	12.5	12.5
	802.11acVHT20	17.0		13.5	9.0	17.0	9.0	12.5	12.5
	802.11acVHT40	16.0		13.5	9.0	16.0	10.0	12.5	12.5
	802.11acVHT80	15.0		12.0	8.0	15.0	9.0	12.0	12.0
5G U-NII-2C	802.11a	18.0	Ant.7	13.5	10.0	18.0	11.0	14.5	14.5
	802.11nHT20	18.0		13.5	9.0	18.0	10.0	12.5	12.5
	802.11nHT40	17.0		13.5	9.0	17.0	10.0	12.5	12.5

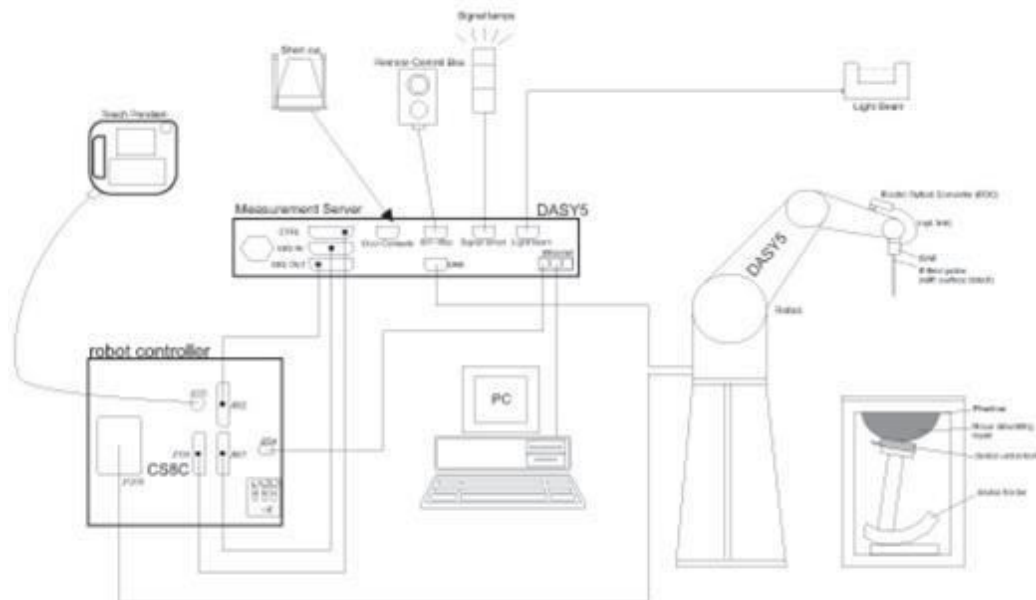
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	802.11acVHT20	17.0		13.5	9.0	17.0	9.0	12.5	12.5
	802.11acVHT40	16.0		13.5	9.0	16.0	10.0	12.5	12.5
	802.11acVHT80	15.0		12.0	8.0	15.0	9.0	12.0	12.0
5G U-NII-3	802.11a	18.0	Ant.7	13.5	10.0	18.0	11.0	14.5	14.5
	802.11nHT20	18.0		13.5	9.0	18.0	10.0	12.5	12.5
	802.11nHT40	17.0		13.5	9.0	17.0	10.0	12.5	12.5
	802.11acVHT20	17.0		13.5	9.0	17.0	9.0	12.5	12.5
	802.11acVHT40	16.0		13.5	9.0	16.0	10.0	12.5	12.5
	802.11acVHT80	15.0		12.0	8.0	15.0	9.0	12.0	12.0

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

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

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

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	Software Version	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	/	2024-05-07	2025-05-06
Dielectric Probe Kit	SPEAG	DAK-3.5	1332	/	2024-07-15	2025-07-14
Power Meter	Agilent	E4417A	GB41291714	/	2024-05-07	2025-05-06
Power Sensor	Agilent	N8481H	MY50350004	/	2024-05-07	2025-05-06
Power Sensor	Agilent	E9327A	US40441622	/	2024-05-07	2025-05-06
Signal Generator	KEYSIGHT	N5182B-X07	MY51350303	/	2024-12-02	2025-12-01
Dual Directional Coupler	UCL	UCL-DDC056G-S	20010600118	/	/	/
Amplifier	R&S	SCU18F	101022	/	2024-05-08	2025-05-07
Wireless Communication Tester	Anritsu	MT8820C	6201342015	/	2024-12-03	2025-12-02
Wireless Communication Tester	Agilent	E5515C	MY48360988	/	2024-12-03	2025-12-02
Wireless communication tester	Starpont	SP9500	20440	/	2024-05-07	2025-05-06
Wireless Communication Tester	Anritsu	MT8000A	6261844783	/	2024-05-07	2025-05-06
Wireless Communication Tester	R&S	CMW 500	146734	/	2024-05-07	2025-05-06
E-field Probe	SPEAG	EX3DV4	7689	/	2024-06-04	2025-06-03
DAE	SPEAG	DAE4	1317	/	2024-09-10	2025-09-09
Validation Kit 750MHz	SPEAG	D750V3	1045	/	2023-09-12	2026-09-11
Validation Kit 835MHz	SPEAG	D835V2	4d020	/	2023-09-15	2026-09-14
Validation Kit 1750MHz	SPEAG	D1750V2	1033	/	2023-03-23	2026-03-22
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	/	2023-09-12	2026-09-11
Validation Kit 2450MHz	SPEAG	D2450V2	786	/	2023-09-12	2026-09-11
Validation Kit 2600MHz	SPEAG	D2600V2	1025	/	2024-05-08	2027-05-07
Validation Kit 3700MHz	SPEAG	D3700V2	1048	/	2022-10-10	2025-10-09
Validation Kit 3900MHz	SPEAG	D3900V2	1027	/	2022-10-09	2025-10-08
Validation Kit 5GHz	SPEAG	D5GHzV2	1203	/	2022-12-09	2025-12-08
Software for Tissue	SPEAG	DAK 3.0.4.1	/	3.0.4.1	/	/
Temperature Probe	Auden	DTM3000	3905	/	2024-12-03	2025-12-02

Twin ELI Phantom	SPEAG	ELI v4.0	1179	/	/	/
Hygrothermograph	Anymetr	HTC - 1	TA2024A031	/	2024-05-06	2025-05-05
Test System	SPEAG	TX90 XLspeag	F08/5AH5A1/ A/01	52.10.4.15 27	/	/

8 Tissue Dielectric Parameter Measurements & System Check

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 $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)	ϵ_r	$\sigma(\text{s/m})$
750	42.0	0.90
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2450	39.2	1.80
2600	39.0	1.96
3700	37.7	3.12
3900	37.5	3.32
5250	35.9	4.71
5600	35.5	5.07
5750	35.4	5.22

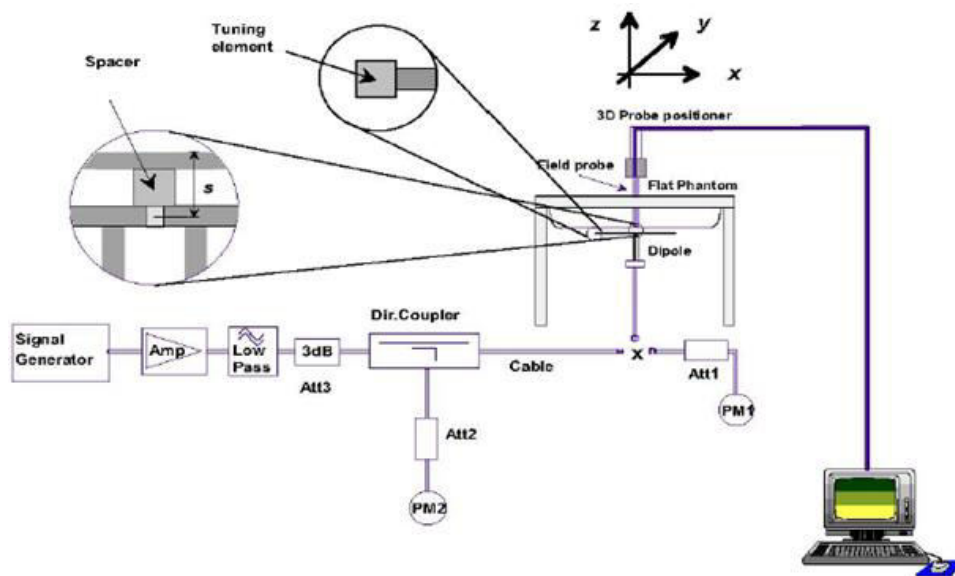
Measurements results

Frequency (MHz)	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
750	2025/3/19	21.5	42.3	0.88	42.0	0.90	0.95	-1.12
835	2025/3/15	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	2025/3/26	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
1750	2025/3/24	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	2025/3/25	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	2025/3/26	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	2025/3/18	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	2025/3/20	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	2025/4/7	21.5	40.0	1.40	40.0	1.40	0.00	0.00
	2025/4/8	21.5	40.5	1.34	40.0	1.40	1.25	-4.29
2450	2025/3/29	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
2600	2025/3/14	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
3700	2025/3/17	21.5	37.9	2.99	37.7	3.12	0.53	-4.17
	2025/3/21	21.5	38.0	3.01	37.7	3.12	0.80	-3.53
	2025/4/7	21.5	38.1	3.03	37.7	3.12	1.06	-2.88
3900	2025/3/27	21.5	37.9	3.42	37.5	3.32	1.07	3.01
5250	2025/3/28	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
5600	2025/4/1	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	2025/3/31	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.								

8.2 System 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 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)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head Liquid	2023-09-12	30.4	/	51.9	/	-2.47	/
		2024-09-11	30.12	-0.9	52.3	0.4	-2.46	0.01
Dipole D835V2 SN: 4d020	Head Liquid	2023-09-15	28.3	/	50.6	/	-3.80	/
		2024-09-14	28.9	2.0	51.4	0.8	-3.66	0.14
Dipole D1750V2 SN: 1033	Head Liquid	2023-03-23	36.2	/	51.2	/	-0.98	/
		2024-03-22	35.4	-2.2	51.6	0.4	-1.28	-0.3
Dipole D1900V2 SN: 5d060	Head Liquid	2023-09-12	24.0	/	50.5	/	6.32	/
		2024-09-11	24.1	0.6	50.9	0.4	6.83	0.51
Dipole D2450V2 SN: 786	Head Liquid	2023-09-12	28.2	/	52.2	/	3.34	/
		2024-09-11	28.6	1.4	52.8	0.6	3.43	0.09
Dipole D3700V2 SN: 1048	Head Liquid	2022-10-10	24.4	/	44.6	/	-1.96	/
		2023-10-09	24.6	0.8	44.6	0.0	-1.01	0.95
		2024-10-08	25.1	2.1	44.8	0.2	-0.64	0.37
Dipole D3900V2 SN: 1027	Head Liquid	2022-10-09	24.7	/	47.9	/	-5.31	/
		2023-10-08	25.3	2.6	48.8	0.9	-4.39	0.92
		2024-10-07	25.4	0.4	49.6	0.8	-4.28	0.11
Dipole D5GHzV2 (5250 MHz) SN: 1203	Head Liquid	2022-12-09	29.0	/	48.5	/	-3.20	/
		2023-12-08	28.4	-2.1	48.4	-0.1	-3.4	-0.2
		2024-12-07	28.6	0.6	49.3	0.9	-3.37	0.03
Dipole D5GHzV2 (5600 MHz) SN: 1203	Head Liquid	2022-12-09	30.4	/	51.7	/	2.60	/
		2023-12-08	30.5	0.3	51.5	-0.2	2.4	-0.2
		2024-12-07	30.8	1.1	51.9	0.4	2.85	0.45
Dipole D5GHzV2 (5750 MHz) SN: 1203	Head Liquid	2022-12-09	25.3	/	53.6	/	4.30	/
		2023-12-08	25.7	1.6	53.1	-0.5	4.7	0.4
		2024-12-07	26.1	3.1	54.5	0.9	4.62	0.32

System Check Results

Frequency (MHz)	Test Date	Temp $^{\circ}\text{C}$	250mW Measured SAR_{1g} (W/kg)	1W Normalized SAR_{1g} (W/kg)	1W Target SAR_{1g} (W/kg)	Δ % (Limit $\pm 10\%$)	Plot No.
750	2025/3/19	21.5	2.13	8.52	8.47	0.59	1
835	2025/3/15	21.5	2.44	9.76	9.75	0.10	2
	2025/3/26	21.5	2.46	9.84	9.75	0.92	3
1750	2025/3/24	21.5	8.95	35.80	36.80	-2.72	4
	2025/3/25	21.5	9.11	36.44	36.80	-0.98	5
	2025/3/26	21.5	8.96	35.84	36.80	-2.61	6
1900	2025/3/18	21.5	9.88	39.52	40.40	-2.18	7

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	2025/3/20	21.5	9.85	39.40	40.40	-2.48	8
	2025/4/7	21.5	9.55	38.20	40.40	-5.45	9
	2025/4/8	21.5	9.60	38.40	40.40	-4.95	10
2450	2025/3/29	21.5	13.70	54.80	52.60	4.18	11
2600	2025/3/14	21.5	13.90	55.60	56.10	-0.89	12
Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
3700	2025/3/17	21.5	6.55	65.50	66.80	-1.95	13
	2025/3/21	21.5	6.83	68.30	66.80	2.25	14
	2025/4/7	21.5	6.61	66.10	66.80	-1.05	15
3900	2025/3/27	21.5	6.83	68.30	66.10	3.33	16
5250	2025/3/28	21.5	7.87	78.70	77.70	1.29	17
5600	2025/4/1	21.5	7.67	76.70	80.30	-4.48	18
5750	2025/3/31	21.5	7.66	76.60	76.80	-0.26	19
Note: Target Values used derive from the calibration certificate data storage and evaluation.							

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 Normal Power&Receiver on&Receiver off&Hotspot on--Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	32.50	32.03	32.07	31.91	9.03	23.47	23.00	23.04	22.88
GPRS/ EGPRS (GMSK)	1 Tx Slot	32.50	32.11	32.14	31.97	9.03	23.47	23.08	23.11	22.94
	2 Tx Slots	32.00	31.72	31.75	31.61	6.02	25.98	25.70	25.73	25.59
	3 Tx Slots	30.50	30.27	30.31	30.13	4.26	26.24	26.01	26.05	25.87
	4 Tx Slots	29.00	28.65	28.93	28.74	3.01	25.99	25.64	25.92	25.73
EGPRS (8PSK)	1 Tx Slot	27.50	26.97	27.28	27.31	9.03	18.47	17.94	18.25	18.28
	2 Tx Slots	26.50	26.30	26.36	26.45	6.02	20.48	20.28	20.34	20.43
	3 Tx Slots	25.00	24.27	24.27	24.23	4.26	20.74	20.01	20.01	19.97
	4 Tx Slots	23.50	22.97	23.04	23.05	3.01	20.49	19.96	20.03	20.04
GSM 1900 Receiver on--Main Ant2		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	27.80	26.06	26.34	26.26	9.03	18.77	17.03	17.31	17.23
GPRS/ EGPRS (GMSK)	1 Tx Slot	27.80	26.08	26.35	26.28	9.03	18.77	17.05	17.32	17.25
	2 Tx Slots	27.80	26.10	26.39	26.33	6.02	21.78	20.08	20.37	20.31
	3 Tx Slots	26.00	24.61	24.75	24.73	4.26	21.74	20.35	20.49	20.47
	4 Tx Slots	24.50	22.72	22.98	23.04	3.01	21.49	19.71	19.97	20.03
EGPRS (8PSK)	1 Tx Slot	27.00	25.11	25.61	25.29	9.03	17.97	16.08	16.58	16.26
	2 Tx Slots	26.00	24.45	24.52	24.12	6.02	19.98	18.43	18.50	18.10
	3 Tx Slots	24.50	22.55	22.60	22.54	4.26	20.24	18.29	18.34	18.28
	4 Tx Slots	23.50	21.52	21.62	21.58	3.01	20.49	18.51	18.61	18.57

GSM 1900 Normal Power&Receiver off&Hotspot on--Main Ant2		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.00	28.19	28.48	28.25	9.03	20.97	19.16	19.45	19.22
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.00	28.21	28.45	28.28	9.03	20.97	19.18	19.42	19.25
	2 Tx Slots	29.50	27.71	28.01	27.82	6.02	23.48	21.69	21.99	21.80
	3 Tx Slots	27.00	25.94	26.29	26.25	4.26	22.74	21.68	22.03	21.99
	4 Tx Slots	26.50	24.69	25.04	24.94	3.01	23.49	21.68	22.03	21.93
EGPRS (8PSK)	1 Tx Slot	26.80	25.61	25.73	25.71	9.03	17.77	16.58	16.70	16.68
	2 Tx Slots	26.00	24.30	24.55	24.55	6.02	19.98	18.28	18.53	18.53
	3 Tx Slots	24.00	22.15	22.32	22.47	4.26	19.74	17.89	18.06	18.21
	4 Tx Slots	23.00	21.18	21.56	21.44	3.01	19.99	18.17	18.55	18.43

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 850 GMSK (GPRS) mode with 3 time slots for Max power, GSM 1900 GMSK (GPRS) mode with 3 time slots / 4 time slots for Max power, based on the output power measurements above.

9.2 WCDMA Mode

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

WCDMA		Band II(dBm) Receiver on--Main Ant2				Band II(dBm) Normal Power&Receiver off&Hotspot on--Main Ant2				Band V(dBm) Normal Power&Receiver on&Receiver off&Hotspot on--Main Ant0			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4132	4183	4233	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit	826.4	836.6	846.6	Limit
RMC	12.2kbps	18.48	18.18	18.19	20.00	21.47	21.22	21.14	23.00	22.61	22.56	22.78	23.50
AMR	12.2kbps	18.34	18.32	18.13	20.00	21.47	21.36	21.28	23.00	22.59	22.60	22.90	23.50
HSDPA	Sub 1	17.64	17.22	17.33	19.00	20.39	20.14	20.24	22.00	22.13	21.96	22.16	23.00
	Sub 2	17.58	17.18	17.11	19.00	20.45	20.12	20.08	22.00	21.57	21.64	21.82	22.50
	Sub 3	16.88	16.80	16.67	18.50	19.93	19.80	19.58	21.50	21.21	20.94	21.32	22.00
	Sub 4	17.00	16.80	16.65	18.50	19.95	19.62	19.78	21.50	21.01	21.10	21.12	22.00
HSUPA	Sub 1	15.40	15.10	15.19	17.00	20.11	19.78	19.70	21.50	20.73	20.46	20.90	21.50
	Sub 2	15.36	15.16	15.19	17.00	18.37	18.28	18.30	20.00	19.61	19.70	19.62	20.50
	Sub 3	15.48	15.28	15.19	17.00	19.49	19.20	19.02	21.00	20.75	20.68	20.68	21.50
	Sub 4	15.56	15.14	15.33	17.00	18.13	17.76	17.62	19.50	19.71	19.56	19.70	20.50
	Sub 5	15.36	15.08	15.35	17.00	19.89	19.72	19.70	21.50	21.51	21.70	21.92	22.50
DC-HSDPA	Sub 1	17.60	17.08	17.31	19.00	20.45	20.20	20.30	22.00	22.01	22.14	22.40	23.00
	Sub 2	17.38	17.22	17.27	19.00	20.35	20.30	20.16	22.00	21.71	21.58	21.78	22.50
	Sub 3	17.00	16.78	16.55	18.50	19.89	19.62	19.66	21.50	21.01	21.22	21.38	22.00
	Sub 4	17.12	16.64	16.71	18.50	20.07	19.82	19.60	21.50	21.15	21.14	21.22	22.00
HSPA+	16QAM	16.34	16.28	16.07	18.00	19.49	19.34	19.10	21.00	21.07	21.18	21.32	22.00

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

9.3 LTE Mode

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

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

LTE B2							
Normal Power--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.52	23.43	23.11	24.50
		1	2	23.47	23.49	23.16	24.50
		1	5	23.50	23.46	23.11	24.50
		3	0	23.48	23.45	23.11	24.50
		3	2	23.50	23.45	23.08	24.50
		3	3	23.50	23.46	23.08	24.50
		6	0	22.45	22.43	22.16	23.50
	16QAM	1	0	22.80	22.71	22.44	23.50
		1	2	22.74	22.80	22.42	23.50
		1	5	22.72	22.80	22.41	23.50
		3	0	22.36	22.38	22.16	23.50
		3	2	22.39	22.43	22.11	23.50
		3	3	22.47	22.40	22.12	23.50
		6	0	21.52	21.50	21.23	22.50
	64QAM	1	0	21.62	21.69	21.29	22.50
		1	2	21.55	21.70	21.29	22.50
		1	5	21.53	21.75	21.30	22.50
		3	0	21.55	21.52	21.27	22.50
		3	2	21.57	21.53	21.21	22.50
		3	3	21.57	21.52	21.23	22.50
		6	0	20.44	20.41	20.10	21.50
	256QAM	1	0	20.66	20.38	20.36	21.50
		1	2	20.54	20.82	20.57	21.50
		1	5	20.73	20.40	20.07	21.50
		3	0	20.41	20.45	20.14	21.50

		3	2	20.05	20.23	20.32	21.50
		3	3	20.07	20.41	19.95	21.50
		6	0	19.49	19.49	19.18	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.36	23.42	23.18	24.50
		1	7	23.36	23.42	23.08	24.50
		1	14	23.38	23.42	23.11	24.50
		8	0	22.46	22.44	22.21	23.50
		8	4	22.44	22.45	22.16	23.50
		8	7	22.43	22.48	22.15	23.50
		15	0	22.42	22.47	22.17	23.50
	16QAM	1	0	22.70	22.67	22.40	23.50
		1	7	22.65	22.79	22.34	23.50
		1	14	22.67	22.76	22.34	23.50
		8	0	21.51	21.49	21.25	22.50
		8	4	21.49	21.48	21.25	22.50
		8	7	21.47	21.51	21.21	22.50
		15	0	21.40	21.45	21.19	22.50
	64QAM	1	0	21.67	21.66	21.37	22.50
		1	7	21.63	21.70	21.33	22.50
		1	14	21.62	21.68	21.33	22.50
		8	0	20.50	20.52	20.27	21.50
		8	4	20.46	20.49	20.21	21.50
		8	7	20.46	20.53	20.22	21.50
		15	0	20.39	20.45	20.14	21.50
	256QAM	1	0	20.72	20.28	20.66	21.50
		1	7	20.14	20.88	20.49	21.50
		1	14	20.63	20.28	20.33	21.50
		8	0	19.51	19.35	19.28	20.50
		8	4	19.13	19.57	19.36	20.50
		8	7	19.27	19.19	19.05	20.50
		15	0	19.13	19.67	19.22	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.47	23.44	23.19	24.50
		1	13	23.42	23.47	23.15	24.50
		1	24	23.41	23.47	23.10	24.50
		12	0	22.51	22.52	22.30	23.50
		12	6	22.44	22.51	22.22	23.50
		12	13	22.49	22.52	22.17	23.50
		25	0	22.50	22.52	22.25	23.50
	16QAM	1	0	22.76	22.73	22.57	23.50

		1	13	22.67	22.77	22.52	23.50
		1	24	22.72	22.73	22.44	23.50
		12	0	21.50	21.52	21.30	22.50
		12	6	21.44	21.52	21.24	22.50
		12	13	21.49	21.52	21.18	22.50
		25	0	21.49	21.51	21.23	22.50
	64QAM	1	0	21.63	21.61	21.38	22.50
		1	13	21.59	21.64	21.34	22.50
		1	24	21.59	21.61	21.32	22.50
		12	0	20.52	20.55	20.34	21.50
		12	6	20.45	20.56	20.23	21.50
		12	13	20.47	20.56	20.19	21.50
		25	0	20.49	20.50	20.23	21.50
	256QAM	1	0	20.78	20.38	20.28	21.50
		1	13	20.42	20.86	20.69	21.50
		1	24	20.57	20.34	20.21	21.50
		12	0	19.51	19.41	19.32	20.50
		12	6	19.45	19.47	19.38	20.50
		12	13	19.41	19.45	19.25	20.50
		25	0	19.27	19.45	19.18	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	23.50	23.44	23.38	24.50
		1	25	23.37	23.44	23.21	24.50
		1	49	23.41	23.50	23.17	24.50
		25	0	22.45	22.47	22.37	23.50
		25	13	22.40	22.46	22.26	23.50
		25	25	22.40	22.49	22.16	23.50
		50	0	22.42	22.46	22.28	23.50
	16QAM	1	0	22.71	22.76	22.66	23.50
		1	25	22.70	22.77	22.49	23.50
		1	49	22.71	22.83	22.49	23.50
		25	0	21.42	21.45	21.35	22.50
		25	13	21.39	21.45	21.22	22.50
		25	25	21.37	21.46	21.16	22.50
		50	0	21.39	21.46	21.27	22.50
	64QAM	1	0	21.57	21.59	21.47	22.50
		1	25	21.53	21.51	21.30	22.50
		1	49	21.57	21.62	21.34	22.50
		25	0	20.42	20.45	20.32	21.50
		25	13	20.38	20.43	20.21	21.50
		25	25	20.38	20.44	20.13	21.50
		50	0	20.39	20.42	20.23	21.50

	256QAM	1	0	20.72	20.24	20.20	21.50
		1	25	20.50	20.72	20.47	21.50
		1	49	20.71	20.46	20.35	21.50
		25	0	19.57	19.37	19.20	20.50
		25	13	19.17	19.53	19.30	20.50
		25	25	19.23	19.41	19.07	20.50
		50	0	19.23	19.47	19.46	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.49	23.39	23.40	24.50
		1	38	23.42	23.50	23.29	24.50
		1	74	23.33	23.47	23.14	24.50
		36	0	22.46	22.47	22.39	23.50
		36	18	22.43	22.51	22.34	23.50
		36	39	22.40	22.51	22.22	23.50
		75	0	22.43	22.51	22.34	23.50
	16QAM	1	0	22.76	22.67	22.69	23.50
		1	38	22.69	22.83	22.53	23.50
		1	74	22.58	22.79	22.42	23.50
		36	0	21.46	21.46	21.37	22.50
		36	18	21.44	21.50	21.31	22.50
		36	39	21.41	21.49	21.20	22.50
		75	0	21.44	21.51	21.36	22.50
	64QAM	1	0	21.65	21.62	21.60	22.50
		1	38	21.65	21.76	21.49	22.50
		1	74	21.57	21.60	21.34	22.50
		36	0	20.49	20.48	20.41	21.50
		36	18	20.46	20.51	20.32	21.50
		36	39	20.42	20.53	20.21	21.50
		75	0	20.42	20.49	20.30	21.50
	256QAM	1	0	20.62	20.28	20.44	21.50
		1	38	20.42	20.70	20.69	21.50
		1	74	20.57	20.42	20.25	21.50
		36	0	19.31	19.43	19.44	20.50
		36	18	19.21	19.43	19.48	20.50
		36	39	19.23	19.35	19.19	20.50
		75	0	19.45	19.57	19.26	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	23.46	23.35	23.44	24.50
		1	50	23.37	23.55	23.36	24.50
		1	99	23.31	23.52	23.18	24.50
		50	0	22.49	22.47	22.47	23.50

		50	25	22.46	22.52	22.44	23.50
		50	50	22.42	22.55	22.27	23.50
		100	0	22.43	22.52	22.36	23.50
	16QAM	1	0	22.76	22.67	22.73	23.50
		1	50	22.67	22.91	22.67	23.50
		1	99	22.55	22.87	22.44	23.50
		50	0	21.47	21.47	21.44	22.50
		50	25	21.43	21.51	21.44	22.50
		50	50	21.39	21.53	21.25	22.50
		100	0	21.39	21.49	21.34	22.50
	64QAM	1	0	21.67	21.51	21.60	22.50
		1	50	21.55	21.74	21.60	22.50
		1	99	21.43	21.73	21.37	22.50
		50	0	20.48	20.48	20.44	21.50
		50	25	20.46	20.52	20.43	21.50
		50	50	20.41	20.52	20.23	21.50
		100	0	20.41	20.49	20.35	21.50
	256QAM	1	0	20.62	20.38	20.38	21.50
		1	50	20.34	20.70	20.61	21.50
		1	99	20.59	20.44	20.15	21.50
		50	0	19.37	19.37	19.34	20.50
		50	25	19.33	19.41	19.34	20.50
		50	50	19.29	19.43	19.15	20.50
		100	0	19.29	19.39	19.24	20.50

LTE B2							
Receiver off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	22.27	22.22	21.89	23.50
		1	2	22.30	22.27	21.87	23.50
		1	5	22.26	22.24	21.85	23.50
		3	0	22.25	22.24	21.86	23.50
		3	2	22.26	22.20	21.81	23.50
		3	3	22.30	22.21	21.82	23.50
		6	0	22.21	22.20	21.88	23.50
	16QAM	1	0	22.57	22.52	22.21	23.50
		1	2	22.47	22.50	22.19	23.50
		1	5	22.47	22.52	22.16	23.50
		3	0	22.25	22.17	21.88	23.50
		3	2	22.24	22.17	21.80	23.50
		3	3	22.27	22.20	21.81	23.50
		6	0	21.31	21.26	20.98	22.50

	64QAM	1	0	21.42	21.36	21.01	22.50
		1	2	21.38	21.37	21.09	22.50
		1	5	21.41	21.37	21.03	22.50
		3	0	21.36	21.35	20.92	22.50
		3	2	21.35	21.37	20.92	22.50
		3	3	21.36	21.39	20.94	22.50
		6	0	20.19	20.21	19.89	21.50
	256QAM	1	0	20.40	20.56	20.04	21.50
		1	2	20.30	20.62	20.73	21.50
		1	5	20.55	20.28	20.03	21.50
		3	0	20.39	20.35	20.26	21.50
		3	2	20.23	20.21	20.06	21.50
		3	3	20.15	20.43	20.19	21.50
		6	0	19.39	19.57	19.54	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	22.21	22.23	21.93	23.50
		1	7	22.18	22.24	21.84	23.50
		1	14	22.19	22.22	21.86	23.50
		8	0	22.25	22.23	21.99	23.50
		8	4	22.22	22.25	21.93	23.50
		8	7	22.23	22.27	21.93	23.50
		15	0	22.24	22.26	21.93	23.50
	16QAM	1	0	22.41	22.51	22.27	23.50
		1	7	22.41	22.48	22.23	23.50
		1	14	22.43	22.51	22.14	23.50
		8	0	21.29	21.27	21.02	22.50
		8	4	21.27	21.30	20.99	22.50
		8	7	21.27	21.29	20.92	22.50
		15	0	21.25	21.22	20.92	22.50
	64QAM	1	0	21.38	21.36	21.13	22.50
		1	7	21.46	21.42	21.07	22.50
		1	14	21.44	21.45	21.09	22.50
		8	0	20.28	20.27	20.04	21.50
		8	4	20.26	20.27	19.99	21.50
		8	7	20.24	20.32	19.97	21.50
		15	0	20.20	20.24	19.92	21.50
	256QAM	1	0	20.40	20.54	20.04	21.50
		1	7	20.30	20.74	20.51	21.50
		1	14	20.73	20.18	19.99	21.50
		8	0	19.57	19.65	19.10	20.50
		8	4	19.45	19.39	19.34	20.50
		8	7	19.51	19.11	19.15	20.50

		15	0	18.97	19.15	19.54	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.27	22.25	22.05	23.50
		1	13	22.22	22.30	21.97	23.50
		1	24	22.23	22.30	21.95	23.50
		12	0	22.32	22.33	22.09	23.50
		12	6	22.28	22.31	22.01	23.50
		12	13	22.32	22.31	21.97	23.50
		25	0	22.35	22.34	22.04	23.50
	16QAM	1	0	22.66	22.60	22.34	23.50
		1	13	22.54	22.66	22.25	23.50
		1	24	22.59	22.60	22.22	23.50
		12	0	21.34	21.32	21.10	22.50
		12	6	21.29	21.33	21.03	22.50
		12	13	21.31	21.36	20.99	22.50
		25	0	21.32	21.31	21.01	22.50
	64QAM	1	0	21.41	21.40	21.22	22.50
		1	13	21.46	21.45	21.22	22.50
		1	24	21.34	21.45	21.09	22.50
		12	0	20.36	20.35	20.12	21.50
		12	6	20.30	20.35	20.05	21.50
		12	13	20.32	20.35	19.99	21.50
		25	0	20.29	20.31	20.03	21.50
	256QAM	1	0	20.64	20.34	20.14	21.50
		1	13	20.26	20.88	20.51	21.50
		1	24	20.59	20.58	20.15	21.50
		12	0	19.59	19.53	19.20	20.50
		12	6	19.49	19.49	19.42	20.50
		12	13	19.29	19.43	19.21	20.50
		25	0	19.25	19.49	19.36	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.35	22.29	22.23	23.50
		1	25	22.22	22.30	22.04	23.50
		1	49	22.25	22.34	22.03	23.50
		25	0	22.28	22.29	22.17	23.50
		25	13	22.24	22.28	22.06	23.50
		25	25	22.22	22.29	21.99	23.50
		50	0	22.27	22.27	22.10	23.50
	16QAM	1	0	22.63	22.51	22.44	23.50
		1	25	22.52	22.54	22.32	23.50
		1	49	22.51	22.62	22.29	23.50

		25	0	21.25	21.27	21.16	22.50
		25	13	21.22	21.25	21.05	22.50
		25	25	21.22	21.29	20.97	22.50
		50	0	21.24	21.27	21.09	22.50
	64QAM	1	0	21.50	21.44	21.36	22.50
		1	25	21.40	21.40	21.19	22.50
		1	49	21.41	21.49	21.19	22.50
		25	0	20.28	20.24	20.14	21.50
		25	13	20.21	20.24	20.01	21.50
		25	25	20.21	20.26	19.97	21.50
		50	0	20.23	20.26	20.06	21.50
	256QAM	1	0	20.72	20.60	20.30	21.50
		1	25	20.32	20.74	20.37	21.50
		1	49	20.69	20.28	20.15	21.50
		25	0	19.65	19.65	19.32	20.50
		25	13	19.47	19.21	19.42	20.50
		25	25	19.31	19.31	19.25	20.50
		50	0	19.15	19.35	19.30	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.35	22.24	22.28	23.50
		1	38	22.29	22.37	22.19	23.50
		1	74	22.18	22.32	22.02	23.50
		36	0	22.30	22.30	22.24	23.50
		36	18	22.27	22.35	22.18	23.50
		36	39	22.24	22.36	22.05	23.50
		75	0	22.28	22.33	22.19	23.50
	16QAM	1	0	22.61	22.63	22.54	23.50
		1	38	22.53	22.61	22.45	23.50
		1	74	22.45	22.66	22.32	23.50
		36	0	21.31	21.31	21.21	22.50
		36	18	21.28	21.34	21.17	22.50
		36	39	21.22	21.34	21.04	22.50
		75	0	21.27	21.35	21.19	22.50
	64QAM	1	0	21.55	21.45	21.41	22.50
		1	38	21.53	21.61	21.28	22.50
		1	74	21.39	21.53	21.15	22.50
		36	0	20.33	20.32	20.26	21.50
		36	18	20.28	20.36	20.17	21.50
		36	39	20.24	20.35	20.08	21.50
		75	0	20.26	20.31	20.17	21.50
	256QAM	1	0	20.42	20.30	20.30	21.50
		1	38	20.30	20.70	20.45	21.50

		1	74	20.43	20.48	20.19	21.50
		36	0	19.63	19.51	19.06	20.50
		36	18	19.37	19.31	19.36	20.50
		36	39	19.13	19.49	19.15	20.50
		75	0	19.17	19.35	19.12	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.34	22.24	22.33	23.50
		1	50	22.28	22.38	22.24	23.50
		1	99	22.18	22.40	22.03	23.50
		50	0	22.37	22.34	22.30	23.50
		50	25	22.32	22.39	22.28	23.50
		50	50	22.28	22.39	22.12	23.50
		100	0	22.29	22.34	22.24	23.50
	16QAM	1	0	22.63	22.50	22.64	23.50
		1	50	22.54	22.66	22.55	23.50
		1	99	22.48	22.68	22.28	23.50
		50	0	21.34	21.33	21.30	22.50
		50	25	21.30	21.37	21.26	22.50
		50	50	21.28	21.38	21.11	22.50
		100	0	21.26	21.33	21.21	22.50
	64QAM	1	0	21.44	21.34	21.57	22.50
		1	50	21.36	21.54	21.44	22.50
		1	99	21.30	21.47	21.18	22.50
		50	0	20.33	20.33	20.27	21.50
		50	25	20.31	20.37	20.24	21.50
		50	50	20.27	20.37	20.10	21.50
		100	0	20.24	20.33	20.21	21.50
	256QAM	1	0	20.50	20.38	20.10	21.50
		1	50	20.46	20.94	20.67	21.50
		1	99	20.49	20.52	20.07	21.50
		50	0	19.51	19.49	19.10	20.50
		50	25	19.51	19.55	19.46	20.50
		50	50	19.31	19.37	19.13	20.50
		100	0	19.17	19.61	19.38	20.50

LTE B2

Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	18.21	18.20	17.88	19.50
		1	2	18.31	18.23	17.87	19.50
		1	5	18.28	18.26	17.86	19.50

		3	0	18.20	18.20	17.83	19.50
		3	2	18.24	18.22	17.83	19.50
		3	3	18.24	18.23	17.86	19.50
		6	0	18.22	18.21	17.88	19.50
	16QAM	1	0	18.56	18.58	18.22	19.50
		1	2	18.65	18.61	18.24	19.50
		1	5	18.62	18.61	18.20	19.50
		3	0	18.24	18.15	17.85	19.50
		3	2	18.30	18.19	17.86	19.50
		3	3	18.27	18.17	17.79	19.50
		6	0	18.33	18.27	17.95	19.50
	64QAM	1	0	18.33	18.33	18.14	19.50
		1	2	18.44	18.40	18.13	19.50
		1	5	18.42	18.37	18.13	19.50
		3	0	18.40	18.33	18.01	19.50
		3	2	18.42	18.35	17.97	19.50
		3	3	18.44	18.40	17.97	19.50
		6	0	18.27	18.20	17.89	19.50
	256QAM	1	0	18.56	18.22	18.32	19.50
		1	2	18.44	18.36	18.39	19.50
		1	5	18.38	18.47	18.03	19.50
		3	0	17.99	18.30	18.05	19.50
		3	2	18.25	18.34	18.27	19.50
		3	3	18.05	18.41	17.92	19.50
		6	0	18.21	18.44	18.28	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	18.15	18.21	17.96	19.50
		1	7	18.13	18.27	17.88	19.50
		1	14	18.11	18.26	17.86	19.50
		8	0	18.15	18.21	18.01	19.50
		8	4	18.15	18.24	17.95	19.50
		8	7	18.17	18.24	17.90	19.50
		15	0	18.15	18.24	17.95	19.50
	16QAM	1	0	18.48	18.49	18.27	19.50
		1	7	18.44	18.57	18.21	19.50
		1	14	18.44	18.51	18.20	19.50
		8	0	18.21	18.30	18.03	19.50
		8	4	18.20	18.31	17.99	19.50
		8	7	18.24	18.30	17.98	19.50
		15	0	18.14	18.22	17.92	19.50
	64QAM	1	0	18.24	18.33	18.13	19.50
		1	7	18.20	18.40	18.08	19.50

		1	14	18.21	18.37	18.02	19.50
		8	0	18.21	18.30	18.04	19.50
		8	4	18.20	18.29	17.97	19.50
		8	7	18.22	18.31	17.95	19.50
		15	0	18.15	18.27	17.92	19.50
	256QAM	1	0	18.44	18.22	18.42	19.50
		1	7	18.50	18.48	18.27	19.50
		1	14	18.28	18.55	18.11	19.50
		8	0	18.05	18.28	18.13	19.50
		8	4	18.07	18.28	18.23	19.50
		8	7	17.97	18.37	17.92	19.50
		15	0	18.03	18.30	18.10	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	18.24	18.22	18.08	19.50
		1	13	18.19	18.26	17.99	19.50
		1	24	18.14	18.27	17.90	19.50
		12	0	18.17	18.27	18.08	19.50
		12	6	18.15	18.28	17.99	19.50
		12	13	18.17	18.27	17.92	19.50
		25	0	18.22	18.33	18.04	19.50
	16QAM	1	0	18.55	18.54	18.44	19.50
		1	13	18.49	18.69	18.33	19.50
		1	24	18.44	18.61	18.23	19.50
		12	0	18.23	18.30	18.11	19.50
		12	6	18.19	18.29	18.02	19.50
		12	13	18.19	18.31	17.96	19.50
		25	0	18.20	18.30	17.99	19.50
	64QAM	1	0	18.39	18.48	18.30	19.50
		1	13	18.35	18.49	18.24	19.50
		1	24	18.33	18.53	18.12	19.50
		12	0	18.24	18.29	18.10	19.50
		12	6	18.19	18.29	18.01	19.50
		12	13	18.22	18.30	17.96	19.50
		25	0	18.21	18.29	17.99	19.50
	256QAM	1	0	18.58	18.24	18.38	19.50
		1	13	18.38	18.36	18.09	19.50
		1	24	18.10	18.47	17.97	19.50
		12	0	18.19	18.10	18.43	19.50
		12	6	17.99	18.10	18.49	19.50
		12	13	18.09	18.11	18.08	19.50
		25	0	18.09	18.32	18.14	19.50
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	18.28	18.24	18.24	19.50
		1	25	18.08	18.24	18.06	19.50
		1	49	18.11	18.32	17.99	19.50
		25	0	18.20	18.22	18.15	19.50
		25	13	18.12	18.24	18.05	19.50
		25	25	18.10	18.24	17.97	19.50
		50	0	18.15	18.23	18.06	19.50
	16QAM	1	0	18.62	18.51	18.52	19.50
		1	25	18.42	18.55	18.37	19.50
		1	49	18.44	18.61	18.29	19.50
		25	0	18.17	18.19	18.13	19.50
		25	13	18.12	18.22	18.04	19.50
		25	25	18.10	18.22	17.90	19.50
		50	0	18.12	18.23	18.08	19.50
	64QAM	1	0	18.49	18.42	18.38	19.50
		1	25	18.32	18.49	18.26	19.50
		1	49	18.30	18.52	18.24	19.50
		25	0	18.17	18.22	18.11	19.50
		25	13	18.12	18.24	18.01	19.50
		25	25	18.10	18.24	17.92	19.50
		50	0	18.15	18.23	18.08	19.50
	256QAM	1	0	18.40	18.24	18.42	19.50
		1	25	18.46	18.48	18.41	19.50
		1	49	18.42	18.41	18.17	19.50
		25	0	18.27	18.20	18.41	19.50
		25	13	18.27	18.44	18.23	19.50
		25	25	18.27	18.25	18.14	19.50
		50	0	18.35	18.32	18.36	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
15MHz	QPSK	1	0	18.17	18.13	18.30	19.50
		1	38	18.15	18.33	18.23	19.50
		1	74	18.07	18.29	17.97	19.50
		36	0	18.20	18.23	18.24	19.50
		36	18	18.14	18.30	18.20	19.50
		36	39	18.14	18.26	18.04	19.50
		75	0	18.17	18.27	18.15	19.50
	16QAM	1	0	18.51	18.44	18.61	19.50
		1	38	18.49	18.62	18.51	19.50
		1	74	18.40	18.58	18.27	19.50
		36	0	18.19	18.23	18.24	19.50
		36	18	18.12	18.29	18.21	19.50

		36	39	18.13	18.26	18.08	19.50
		75	0	18.17	18.29	18.17	19.50
	64QAM	1	0	18.42	18.32	18.39	19.50
		1	38	18.32	18.54	18.33	19.50
		1	74	18.24	18.40	18.08	19.50
		36	0	18.22	18.26	18.28	19.50
		36	18	18.15	18.30	18.22	19.50
		36	39	18.15	18.30	18.08	19.50
		75	0	18.17	18.27	18.15	19.50
		1	0	18.48	18.32	18.52	19.50
	256QAM	1	38	18.32	18.68	18.53	19.50
		1	74	18.36	18.35	17.95	19.50
		36	0	18.25	18.30	18.31	19.50
		36	18	18.35	18.40	18.25	19.50
		36	39	18.23	18.23	18.28	19.50
		75	0	18.39	18.14	18.42	19.50
		1	0	18.48	18.32	18.52	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	18.22	18.10	18.29	19.50
		1	50	18.21	18.36	18.22	19.50
		1	99	18.08	18.33	17.94	19.50
		50	0	18.21	18.27	18.32	19.50
		50	25	18.19	18.33	18.27	19.50
		50	50	18.17	18.33	18.08	19.50
		100	0	18.19	18.30	18.24	19.50
		1	0	18.53	18.33	18.63	19.50
	16QAM	1	50	18.47	18.63	18.58	19.50
		1	99	18.36	18.58	18.32	19.50
		50	0	18.20	18.24	18.31	19.50
		50	25	18.17	18.33	18.24	19.50
		50	50	18.17	18.33	18.08	19.50
		100	0	18.19	18.27	18.17	19.50
		1	0	18.42	18.30	18.38	19.50
		1	50	18.42	18.56	18.33	19.50
	64QAM	1	99	18.28	18.49	18.05	19.50
		50	0	18.17	18.24	18.29	19.50
		50	25	18.17	18.32	18.23	19.50
		50	50	18.17	18.33	18.06	19.50
		100	0	18.19	18.26	18.20	19.50
		1	0	18.32	18.28	18.34	19.50
		1	50	18.60	18.64	18.21	19.50
		1	99	18.34	18.43	18.07	19.50
		50	0	18.07	18.20	18.27	19.50

		50	25	18.27	18.50	18.31	19.50
		50	50	18.21	18.31	17.96	19.50
		100	0	18.27	18.14	18.34	19.50

LTE B2							
Hotspot on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.21	21.18	20.85	22.50
		1	2	21.22	21.22	20.88	22.50
		1	5	21.19	21.21	20.87	22.50
		3	0	21.22	21.18	20.86	22.50
		3	2	21.23	21.18	20.85	22.50
		3	3	21.22	21.17	20.86	22.50
		6	0	21.22	21.14	20.89	22.50
	16QAM	1	0	21.54	21.53	21.22	22.50
		1	2	21.49	21.56	21.25	22.50
		1	5	21.44	21.58	21.21	22.50
		3	0	21.17	21.11	20.85	22.50
		3	2	21.18	21.14	20.82	22.50
		3	3	21.19	21.13	20.79	22.50
		6	0	21.29	21.25	20.97	22.50
	64QAM	1	0	21.29	21.30	21.07	22.50
		1	2	21.35	21.44	21.13	22.50
		1	5	21.39	21.43	21.01	22.50
		3	0	21.29	21.31	21.01	22.50
		3	2	21.32	21.39	21.01	22.50
		3	3	21.33	21.34	21.05	22.50
		6	0	20.20	20.13	19.86	21.50
	256QAM	1	0	20.43	20.59	20.58	21.50
		1	2	20.25	20.37	20.68	21.50
		1	5	20.28	20.01	20.15	21.50
		3	0	20.14	19.96	20.22	21.50
		3	2	20.04	20.18	19.61	21.50
		3	3	19.74	20.30	20.22	21.50
		6	0	19.04	19.40	19.09	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.15	21.15	20.94	22.50
		1	7	21.14	21.22	20.82	22.50
		1	14	21.17	21.21	20.86	22.50
		8	0	21.22	21.22	20.99	22.50
		8	4	21.17	21.21	20.93	22.50

		8	7	21.20	21.25	20.93	22.50
		15	0	21.22	21.23	20.92	22.50
	16QAM	1	0	21.38	21.40	21.24	22.50
		1	7	21.42	21.45	21.06	22.50
		1	14	21.45	21.46	21.15	22.50
		8	0	21.31	21.28	21.02	22.50
		8	4	21.27	21.26	20.99	22.50
		8	7	21.25	21.29	20.97	22.50
		15	0	21.25	21.25	20.93	22.50
	64QAM	1	0	21.47	21.27	21.07	22.50
		1	7	21.32	21.34	21.02	22.50
		1	14	21.45	21.48	21.10	22.50
		8	0	20.30	20.32	20.05	21.50
		8	4	20.23	20.28	20.00	21.50
		8	7	20.23	20.32	19.92	21.50
		15	0	20.18	20.20	19.95	21.50
	256QAM	1	0	20.27	20.61	20.66	21.50
		1	7	20.39	20.49	20.48	21.50
		1	14	20.16	20.17	20.21	21.50
		8	0	19.38	19.12	19.14	20.50
		8	4	19.32	19.40	18.91	20.50
		8	7	19.04	19.28	19.50	20.50
		15	0	19.04	19.26	19.17	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.24	21.19	21.02	22.50
		1	13	21.17	21.23	20.95	22.50
		1	24	21.19	21.25	20.96	22.50
		12	0	21.28	21.25	21.07	22.50
		12	6	21.23	21.25	20.98	22.50
		12	13	21.27	21.28	20.94	22.50
		25	0	21.31	21.32	21.00	22.50
	16QAM	1	0	21.50	21.51	21.31	22.50
		1	13	21.50	21.56	21.23	22.50
		1	24	21.52	21.56	21.23	22.50
		12	0	21.31	21.27	21.09	22.50
		12	6	21.26	21.30	21.02	22.50
		12	13	21.28	21.30	20.95	22.50
		25	0	21.29	21.28	21.01	22.50
	64QAM	1	0	21.50	21.33	21.23	22.50
		1	13	21.42	21.38	21.12	22.50
		1	24	21.42	21.47	21.14	22.50
		12	0	20.32	20.32	20.13	21.50

		12	6	20.27	20.30	20.05	21.50
		12	13	20.29	20.32	19.98	21.50
		25	0	20.25	20.28	20.00	21.50
	256QAM	1	0	20.47	20.21	20.32	21.50
		1	13	20.29	20.83	20.38	21.50
		1	24	20.42	20.33	20.03	21.50
		12	0	19.48	19.38	19.02	20.50
		12	6	19.26	19.32	19.27	20.50
		12	13	19.08	19.14	19.10	20.50
		25	0	18.94	19.36	19.11	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.30	21.24	21.26	22.50
		1	25	21.19	21.27	21.05	22.50
		1	49	21.23	21.32	21.02	22.50
		25	0	21.28	21.27	21.19	22.50
		25	13	21.24	21.28	21.08	22.50
		25	25	21.22	21.28	20.98	22.50
		50	0	21.27	21.28	21.10	22.50
	16QAM	1	0	21.60	21.53	21.59	22.50
		1	25	21.50	21.60	21.38	22.50
		1	49	21.50	21.60	21.30	22.50
		25	0	21.24	21.23	21.19	22.50
		25	13	21.19	21.24	21.05	22.50
		25	25	21.17	21.26	20.98	22.50
		50	0	21.23	21.27	21.08	22.50
	64QAM	1	0	21.50	21.44	21.35	22.50
		1	25	21.46	21.41	21.18	22.50
		1	49	21.36	21.46	21.20	22.50
		25	0	20.25	20.23	20.17	21.50
		25	13	20.21	20.25	20.07	21.50
		25	25	20.20	20.26	19.98	21.50
		50	0	20.23	20.25	20.09	21.50
	256QAM	1	0	20.27	20.09	20.42	21.50
		1	25	20.15	20.83	20.50	21.50
		1	49	20.26	20.35	19.91	21.50
		25	0	19.14	19.30	18.94	20.50
		25	13	19.22	19.22	19.11	20.50
		25	25	19.18	19.26	19.26	20.50
		50	0	19.02	19.32	19.29	20.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.32	21.25	21.34	22.50
		1	38	21.21	21.33	21.14	22.50
		1	74	21.22	21.33	21.04	22.50
		36	0	21.28	21.25	21.22	22.50
		36	18	21.21	21.26	21.12	22.50
		36	39	21.21	21.28	21.00	22.50
		75	0	21.26	21.30	21.18	22.50
	16QAM	1	0	21.70	21.51	21.67	22.50
		1	38	21.57	21.64	21.44	22.50
		1	74	21.53	21.61	21.39	22.50
		36	0	21.26	21.25	21.24	22.50
		36	18	21.21	21.28	21.10	22.50
		36	39	21.22	21.28	21.02	22.50
		75	0	21.26	21.29	21.18	22.50
	64QAM	1	0	21.44	21.31	21.51	22.50
		1	38	21.35	21.43	21.35	22.50
		1	74	21.34	21.52	21.13	22.50
		36	0	20.29	20.30	20.27	21.50
		36	18	20.22	20.28	20.14	21.50
		36	39	20.23	20.34	20.03	21.50
		75	0	20.23	20.29	20.14	21.50
	256QAM	1	0	20.43	20.39	20.52	21.50
		1	38	20.17	20.87	20.46	21.50
		1	74	20.42	20.37	20.31	21.50
		36	0	19.28	19.16	19.22	20.50
		36	18	19.40	19.40	18.95	20.50
		36	39	19.24	19.40	19.36	20.50
		75	0	19.02	19.24	19.27	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.35	21.21	21.31	22.50
		1	50	21.20	21.34	21.24	22.50
		1	99	21.19	21.34	21.02	22.50
		50	0	21.31	21.27	21.33	22.50
		50	25	21.25	21.31	21.27	22.50
		50	50	21.23	21.32	21.10	22.50
		100	0	21.28	21.29	21.18	22.50
	16QAM	1	0	21.70	21.59	21.73	22.50
		1	50	21.52	21.70	21.60	22.50
		1	99	21.48	21.72	21.42	22.50
		50	0	21.29	21.25	21.31	22.50

		50	25	21.24	21.31	21.26	22.50
		50	50	21.23	21.33	21.10	22.50
		100	0	21.26	21.26	21.16	22.50
	64QAM	1	0	21.60	21.30	21.40	22.50
		1	50	21.49	21.42	21.47	22.50
		1	99	21.38	21.54	21.10	22.50
		50	0	20.30	20.23	20.32	21.50
		50	25	20.23	20.30	20.23	21.50
		50	50	20.21	20.32	20.07	21.50
		100	0	20.25	20.25	20.16	21.50
	256QAM	1	0	20.41	20.47	20.54	21.50
		1	50	20.29	20.63	20.44	21.50
		1	99	20.18	20.33	20.29	21.50
		50	0	19.24	19.26	19.22	20.50
		50	25	19.34	19.24	19.11	20.50
		50	50	19.26	19.26	19.36	20.50
		100	0	19.06	19.32	19.33	20.50

LTE B4							
Normal Power--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.28	23.87	23.61	24.50
		1	2	23.29	23.83	23.64	24.50
		1	5	23.31	23.82	23.63	24.50
		3	0	23.24	23.84	23.61	24.50
		3	2	23.27	23.83	23.57	24.50
		3	3	23.28	23.84	23.62	24.50
		6	0	22.32	22.89	22.65	23.50
	16QAM	1	0	22.59	23.10	22.92	23.50
		1	2	22.69	23.13	22.97	23.50
		1	5	22.62	23.10	23.00	23.50
		3	0	22.33	22.90	22.59	23.50
		3	2	22.31	22.89	22.56	23.50
		3	3	22.33	22.93	22.56	23.50
		6	0	21.42	21.95	21.70	22.50
	64QAM	1	0	21.58	22.12	21.78	22.50
		1	2	21.63	22.09	21.70	22.50
		1	5	21.62	22.08	21.70	22.50
		3	0	21.38	22.04	21.81	22.50
		3	2	21.43	22.05	21.82	22.50
		3	3	21.44	21.97	21.81	22.50
		6	0	20.30	20.87	20.60	21.50

	256QAM	1	0	20.25	20.72	20.98	21.50
		1	2	20.80	21.07	21.03	21.50
		1	5	20.96	20.63	20.73	21.50
		3	0	20.06	20.62	20.57	21.50
		3	2	20.28	20.68	20.68	21.50
		3	3	20.60	20.76	20.40	21.50
		6	0	19.72	19.71	19.56	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	23.28	23.87	23.61	24.50
		1	7	23.33	23.80	23.58	24.50
		1	14	23.33	23.79	23.62	24.50
		8	0	22.37	22.89	22.64	23.50
		8	4	22.34	22.88	22.63	23.50
		8	7	22.37	22.87	22.65	23.50
		15	0	22.38	22.88	22.64	23.50
	16QAM	1	0	22.71	23.08	22.80	23.50
		1	7	22.72	23.07	22.90	23.50
		1	14	22.76	23.04	22.81	23.50
		8	0	21.42	21.93	21.71	22.50
		8	4	21.41	21.97	21.70	22.50
		8	7	21.40	21.96	21.71	22.50
		15	0	21.34	21.90	21.64	22.50
	64QAM	1	0	21.52	22.00	21.63	22.50
		1	7	21.54	22.05	21.81	22.50
		1	14	21.61	22.01	21.71	22.50
		8	0	20.38	20.93	20.71	21.50
		8	4	20.37	20.95	20.70	21.50
		8	7	20.42	20.95	20.69	21.50
		15	0	20.32	20.86	20.61	21.50
	256QAM	1	0	20.37	20.76	21.04	21.50
		1	7	20.58	21.01	20.89	21.50
		1	14	20.84	20.87	20.61	21.50
		8	0	19.38	19.64	19.65	20.50
		8	4	19.46	19.94	19.60	20.50
		8	7	19.70	19.82	19.72	20.50
		15	0	19.48	19.59	19.78	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.33	23.88	23.72	24.50
		1	13	23.39	23.84	23.61	24.50
		1	24	23.47	23.92	23.62	24.50
		12	0	22.42	22.95	22.71	23.50

		12	6	22.42	22.93	22.69	23.50
		12	13	22.46	22.96	22.70	23.50
		25	0	22.46	22.95	22.73	23.50
	16QAM	1	0	22.62	23.16	22.94	23.50
		1	13	22.62	23.07	22.89	23.50
		1	24	22.70	23.06	22.96	23.50
		12	0	21.43	21.93	21.74	22.50
		12	6	21.44	21.96	21.70	22.50
		12	13	21.46	21.96	21.70	22.50
		25	0	21.45	21.94	21.68	22.50
	64QAM	1	0	21.58	22.13	21.97	22.50
		1	13	21.60	22.13	21.90	22.50
		1	24	21.71	22.14	21.84	22.50
		12	0	20.43	21.00	20.71	21.50
		12	6	20.44	21.00	20.71	21.50
		12	13	20.45	20.99	20.71	21.50
		25	0	20.41	20.92	20.69	21.50
	256QAM	1	0	20.17	20.74	20.72	21.50
		1	13	20.48	20.87	20.73	21.50
		1	24	20.78	20.69	20.59	21.50
		12	0	19.42	19.80	19.79	20.50
		12	6	19.66	19.70	19.68	20.50
		12	13	19.72	19.60	19.54	20.50
		25	0	19.42	19.69	19.70	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.41	23.89	23.85	24.50
		1	25	23.40	23.81	23.62	24.50
		1	49	23.65	23.90	23.71	24.50
		25	0	22.46	22.91	22.76	23.50
		25	13	22.47	22.89	22.67	23.50
		25	25	22.58	22.92	22.68	23.50
		50	0	22.54	22.90	22.74	23.50
	16QAM	1	0	22.78	23.20	23.14	23.50
		1	25	22.80	23.15	22.98	23.50
		1	49	23.04	23.16	22.98	23.50
		25	0	21.40	21.90	21.77	22.50
		25	13	21.43	21.87	21.67	22.50
		25	25	21.55	21.90	21.65	22.50
		50	0	21.49	21.89	21.70	22.50
	64QAM	1	0	21.48	22.09	21.99	22.50
		1	25	21.57	22.01	21.79	22.50
		1	49	21.87	21.99	21.80	22.50

		25	0	20.41	20.90	20.76	21.50
		25	13	20.43	20.88	20.66	21.50
		25	25	20.55	20.90	20.66	21.50
		50	0	20.48	20.89	20.71	21.50
	256QAM	1	0	20.23	20.88	20.76	21.50
		1	25	20.78	20.77	21.05	21.50
		1	49	20.84	20.87	20.51	21.50
		25	0	19.60	19.90	19.81	20.50
		25	13	19.78	19.66	19.48	20.50
		25	25	19.88	19.86	19.78	20.50
		50	0	19.52	19.79	19.50	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.40	23.93	23.75	24.50
		1	38	23.63	23.90	23.79	24.50
		1	74	23.81	23.73	23.63	24.50
		36	0	22.50	22.94	22.89	23.50
		36	18	22.64	22.95	22.80	23.50
		36	39	22.76	22.89	22.68	23.50
		75	0	22.63	22.94	22.79	23.50
	16QAM	1	0	22.64	23.11	23.08	23.50
		1	38	22.86	23.17	23.08	23.50
		1	74	23.06	23.01	22.92	23.50
		36	0	21.52	21.93	21.87	22.50
		36	18	21.65	21.95	21.78	22.50
		36	39	21.75	21.89	21.68	22.50
		75	0	21.65	21.95	21.80	22.50
	64QAM	1	0	21.61	22.07	21.92	22.50
		1	38	21.84	22.10	21.98	22.50
		1	74	22.01	22.00	21.77	22.50
		36	0	20.51	20.96	20.90	21.50
		36	18	20.67	20.99	20.82	21.50
		36	39	20.77	20.92	20.75	21.50
		75	0	20.61	20.93	20.78	21.50
	256QAM	1	0	20.49	20.96	20.88	21.50
		1	38	20.58	21.11	20.75	21.50
		1	74	20.70	20.71	20.67	21.50
		36	0	19.50	19.78	19.83	20.50
		36	18	19.60	19.88	19.68	20.50
		36	39	19.64	19.60	19.62	20.50
		75	0	19.66	19.61	19.78	20.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.44	23.77	23.86	24.50
		1	50	23.77	23.90	23.85	24.50
		1	99	23.94	23.74	23.61	24.50
		50	0	22.61	22.95	22.90	23.50
		50	25	22.79	23.00	22.86	23.50
		50	50	22.92	22.94	22.79	23.50
		100	0	22.75	22.91	22.86	23.50
	16QAM	1	0	22.63	23.15	23.10	23.50
		1	50	23.02	23.22	23.07	23.50
		1	99	23.15	23.09	22.83	23.50
		50	0	21.59	21.94	21.92	22.50
		50	25	21.77	21.98	21.86	22.50
		50	50	21.89	21.93	21.78	22.50
		100	0	21.74	21.89	21.84	22.50
	64QAM	1	0	21.53	22.00	22.10	22.50
		1	50	21.84	22.15	22.05	22.50
		1	99	22.02	21.99	21.85	22.50
		50	0	20.58	20.94	20.89	21.50
		50	25	20.76	20.98	20.86	21.50
		50	50	20.90	20.92	20.76	21.50
		100	0	20.72	20.89	20.86	21.50
	256QAM	1	0	20.33	20.80	20.90	21.50
		1	50	20.64	20.95	20.85	21.50
		1	99	20.82	20.79	20.65	21.50
		50	0	19.38	19.74	19.69	20.50
		50	25	19.56	19.78	19.66	20.50
		50	50	19.70	19.72	19.56	20.50
		100	0	19.52	19.69	19.66	20.50

LTE B4							
Receiver off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	22.15	22.78	22.49	23.50
		1	2	22.15	22.78	22.50	23.50
		1	5	22.19	22.77	22.48	23.50
		3	0	22.17	22.74	22.51	23.50
		3	2	22.19	22.78	22.45	23.50
		3	3	22.16	22.75	22.47	23.50
		6	0	22.20	22.75	22.51	23.50
	16QAM	1	0	22.51	23.00	22.76	23.50

		1	2	22.55	22.95	22.79	23.50
		1	5	22.56	22.96	22.85	23.50
		3	0	22.16	22.80	22.48	23.50
		3	2	22.15	22.76	22.44	23.50
		3	3	22.18	22.81	22.52	23.50
		6	0	21.31	21.87	21.60	22.50
	64QAM	1	0	21.41	22.02	21.64	22.50
		1	2	21.38	21.92	21.68	22.50
		1	5	21.37	21.92	21.57	22.50
		3	0	21.31	21.87	21.64	22.50
		3	2	21.28	21.86	21.64	22.50
		3	3	21.34	21.88	21.65	22.50
		6	0	20.17	20.77	20.48	21.50
	256QAM	1	0	20.23	20.78	20.55	21.50
		1	2	20.38	20.61	20.74	21.50
		1	5	20.50	20.53	20.27	21.50
		3	0	20.26	20.52	20.53	21.50
		3	2	20.30	20.72	20.52	21.50
		3	3	20.28	20.46	20.32	21.50
		6	0	19.10	19.27	19.34	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.19	22.74	22.51	23.50
		1	7	22.19	22.76	22.46	23.50
		1	14	22.24	22.72	22.50	23.50
		8	0	22.26	22.75	22.51	23.50
		8	4	22.22	22.78	22.52	23.50
		8	7	22.26	22.76	22.51	23.50
		15	0	22.28	22.77	22.55	23.50
	16QAM	1	0	22.58	23.01	22.76	23.50
		1	7	22.57	22.96	22.74	23.50
		1	14	22.63	22.92	22.75	23.50
		8	0	21.30	21.85	21.59	22.50
		8	4	21.28	21.86	21.60	22.50
		8	7	21.30	21.84	21.57	22.50
		15	0	21.26	21.82	21.52	22.50
	64QAM	1	0	21.28	21.89	21.62	22.50
		1	7	21.34	21.91	21.53	22.50
		1	14	21.40	21.88	21.58	22.50
		8	0	20.29	20.85	20.57	21.50
		8	4	20.27	20.86	20.57	21.50
		8	7	20.30	20.86	20.58	21.50
		15	0	20.24	20.77	20.49	21.50

	256QAM	1	0	20.25	20.70	20.25	21.50
		1	7	20.20	20.27	20.86	21.50
		1	14	20.20	20.45	20.39	21.50
		8	0	19.44	19.62	19.51	20.50
		8	4	19.50	19.58	19.54	20.50
		8	7	19.04	19.54	19.70	20.50
		15	0	19.20	19.53	19.40	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.26	22.84	22.59	23.50
		1	13	22.28	22.77	22.52	23.50
		1	24	22.38	22.76	22.54	23.50
		12	0	22.31	22.84	22.59	23.50
		12	6	22.31	22.82	22.57	23.50
		12	13	22.35	22.84	22.60	23.50
		25	0	22.35	22.84	22.62	23.50
	16QAM	1	0	22.58	23.07	22.93	23.50
		1	13	22.54	22.98	22.78	23.50
		1	24	22.58	22.96	22.90	23.50
		12	0	21.32	21.86	21.62	22.50
		12	6	21.33	21.83	21.59	22.50
		12	13	21.33	21.83	21.60	22.50
		25	0	21.34	21.85	21.57	22.50
	64QAM	1	0	21.41	22.04	21.79	22.50
		1	13	21.42	21.99	21.72	22.50
		1	24	21.55	22.02	21.71	22.50
		12	0	20.35	20.90	20.63	21.50
		12	6	20.32	20.87	20.61	21.50
		12	13	20.38	20.89	20.58	21.50
		25	0	20.33	20.83	20.57	21.50
	256QAM	1	0	20.47	20.74	20.59	21.50
		1	13	20.20	20.53	20.62	21.50
		1	24	20.50	20.57	20.21	21.50
		12	0	19.40	19.54	19.53	20.50
		12	6	19.44	19.62	19.70	20.50
		12	13	19.42	19.74	19.66	20.50
		25	0	19.10	19.43	19.28	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.31	22.84	22.74	23.50
		1	25	22.34	22.77	22.54	23.50
		1	49	22.57	22.74	22.57	23.50
		25	0	22.34	22.82	22.68	23.50

		25	13	22.40	22.81	22.59	23.50
		25	25	22.47	22.83	22.58	23.50
		50	0	22.44	22.82	22.63	23.50
	16QAM	1	0	22.70	23.12	23.07	23.50
		1	25	22.72	23.06	22.90	23.50
		1	49	22.93	23.03	22.91	23.50
		25	0	21.35	21.83	21.64	22.50
		25	13	21.35	21.79	21.59	22.50
		25	25	21.45	21.81	21.56	22.50
		50	0	21.42	21.79	21.64	22.50
	64QAM	1	0	21.47	22.02	21.85	22.50
		1	25	21.47	21.90	21.71	22.50
		1	49	21.72	21.88	21.72	22.50
		25	0	20.32	20.82	20.65	21.50
		25	13	20.32	20.78	20.56	21.50
		25	25	20.45	20.80	20.56	21.50
		50	0	20.40	20.79	20.61	21.50
	256QAM	1	0	20.41	20.60	20.49	21.50
		1	25	20.22	20.37	20.58	21.50
		1	49	20.26	20.53	20.13	21.50
		25	0	19.28	19.48	19.37	20.50
		25	13	19.20	19.58	19.60	20.50
		25	25	19.18	19.70	19.46	20.50
		50	0	19.10	19.33	19.20	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.34	22.81	22.74	23.50
		1	38	22.58	22.88	22.68	23.50
		1	74	22.75	22.72	22.53	23.50
		36	0	22.42	22.84	22.77	23.50
		36	18	22.54	22.86	22.71	23.50
		36	39	22.69	22.81	22.60	23.50
		75	0	22.56	22.86	22.71	23.50
	16QAM	1	0	22.63	23.10	23.00	23.50
		1	38	22.89	23.10	23.00	23.50
		1	74	23.01	22.90	22.81	23.50
		36	0	21.45	21.85	21.76	22.50
		36	18	21.54	21.88	21.69	22.50
		36	39	21.69	21.80	21.59	22.50
		75	0	21.58	21.87	21.70	22.50
	64QAM	1	0	21.58	22.02	21.95	22.50
		1	38	21.77	22.06	21.88	22.50
		1	74	21.91	21.91	21.74	22.50

		36	0	20.45	20.89	20.81	21.50
		36	18	20.55	20.90	20.73	21.50
		36	39	20.67	20.83	20.63	21.50
		75	0	20.55	20.88	20.69	21.50
	256QAM	1	0	20.53	20.54	20.49	21.50
		1	38	20.10	20.59	20.66	21.50
		1	74	20.54	20.71	20.27	21.50
		36	0	19.24	19.58	19.69	20.50
		36	18	19.14	19.66	19.50	20.50
		36	39	19.28	19.66	19.32	20.50
		75	0	19.38	19.45	19.28	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	22.35	22.78	22.83	23.50
		1	50	22.68	22.95	22.79	23.50
		1	99	22.86	22.74	22.56	23.50
		50	0	22.54	22.88	22.83	23.50
		50	25	22.71	22.92	22.79	23.50
		50	50	22.85	22.85	22.72	23.50
		100	0	22.70	22.84	22.77	23.50
	16QAM	1	0	22.64	23.09	23.13	23.50
		1	50	22.98	23.12	23.01	23.50
		1	99	23.10	22.98	22.85	23.50
		50	0	21.51	21.87	21.84	22.50
		50	25	21.70	21.90	21.79	22.50
		50	50	21.81	21.83	21.68	22.50
		100	0	21.65	21.80	21.76	22.50
	64QAM	1	0	21.44	21.87	22.00	22.50
		1	50	21.78	22.01	21.99	22.50
		1	99	21.93	21.81	21.74	22.50
		50	0	20.52	20.87	20.83	21.50
		50	25	20.69	20.90	20.78	21.50
		50	50	20.81	20.85	20.69	21.50
		100	0	20.65	20.81	20.77	21.50
	256QAM	1	0	20.43	20.70	20.63	21.50
		1	50	20.16	20.63	20.60	21.50
		1	99	20.54	20.69	20.29	21.50
		50	0	19.22	19.42	19.49	20.50
		50	25	19.32	19.58	19.68	20.50
		50	50	19.30	19.82	19.52	20.50
		100	0	19.10	19.55	19.54	20.50

LTE B4							
Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	19.03	19.73	19.40	20.50
		1	2	19.04	19.73	19.48	20.50
		1	5	19.04	19.71	19.42	20.50
		3	0	19.04	19.67	19.48	20.50
		3	2	19.02	19.67	19.42	20.50
		3	3	19.06	19.65	19.42	20.50
		6	0	19.07	19.73	19.47	20.50
	16QAM	1	0	19.47	20.03	19.79	20.50
		1	2	19.42	19.99	19.74	20.50
		1	5	19.38	19.99	19.77	20.50
		3	0	19.08	19.64	19.42	20.50
		3	2	19.06	19.73	19.42	20.50
		3	3	19.08	19.71	19.42	20.50
		6	0	19.17	19.80	19.54	20.50
	64QAM	1	0	19.29	19.97	19.58	20.50
		1	2	19.24	19.88	19.67	20.50
		1	5	19.42	19.82	19.69	20.50
		3	0	19.20	19.80	19.61	20.50
		3	2	19.17	19.76	19.55	20.50
		3	3	19.24	19.76	19.63	20.50
		6	0	19.12	19.73	19.45	20.50
	256QAM	1	0	19.39	19.40	19.68	20.50
		1	2	19.39	19.72	19.72	20.50
		1	5	19.89	19.46	19.41	20.50
		3	0	19.28	19.33	19.77	20.50
		3	2	19.60	19.59	19.52	20.50
		3	3	19.44	19.60	19.57	20.50
		6	0	19.64	19.57	19.35	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	19.06	19.65	19.42	20.50
		1	7	19.06	19.65	19.40	20.50
		1	14	19.13	19.65	19.42	20.50
		8	0	19.15	19.71	19.51	20.50
		8	4	19.11	19.73	19.47	20.50
		8	7	19.17	19.74	19.48	20.50
		15	0	19.13	19.73	19.47	20.50
	16QAM	1	0	19.44	19.99	19.74	20.50

		1	7	19.39	19.99	19.78	20.50
		1	14	19.49	19.99	19.76	20.50
		8	0	19.20	19.77	19.54	20.50
		8	4	19.21	19.78	19.57	20.50
		8	7	19.21	19.79	19.55	20.50
		15	0	19.15	19.72	19.46	20.50
	64QAM	1	0	19.27	19.83	19.65	20.50
		1	7	19.28	19.82	19.64	20.50
		1	14	19.24	19.90	19.52	20.50
		8	0	19.23	19.77	19.53	20.50
		8	4	19.19	19.80	19.52	20.50
		8	7	19.22	19.79	19.56	20.50
		15	0	19.14	19.73	19.47	20.50
	256QAM	1	0	19.35	19.66	19.68	20.50
		1	7	19.65	19.84	19.80	20.50
		1	14	19.73	19.60	19.49	20.50
		8	0	19.36	19.53	19.69	20.50
		8	4	19.50	19.73	19.58	20.50
		8	7	19.56	19.76	19.63	20.50
		15	0	19.56	19.69	19.59	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	19.13	19.77	19.61	20.50
		1	13	19.17	19.74	19.51	20.50
		1	24	19.30	19.74	19.49	20.50
		12	0	19.21	19.77	19.54	20.50
		12	6	19.20	19.74	19.54	20.50
		12	13	19.24	19.76	19.53	20.50
		25	0	19.24	19.79	19.56	20.50
	16QAM	1	0	19.63	20.13	19.85	20.50
		1	13	19.58	20.06	19.78	20.50
		1	24	19.67	20.08	19.79	20.50
		12	0	19.23	19.81	19.56	20.50
		12	6	19.23	19.77	19.54	20.50
		12	13	19.24	19.79	19.55	20.50
		25	0	19.24	19.78	19.56	20.50
	64QAM	1	0	19.27	19.94	19.67	20.50
		1	13	19.31	19.83	19.57	20.50
		1	24	19.49	19.85	19.58	20.50
		12	0	19.23	19.82	19.58	20.50
		12	6	19.23	19.78	19.54	20.50
		12	13	19.27	19.82	19.53	20.50
		25	0	19.24	19.77	19.53	20.50

	256QAM	1	0	19.41	19.56	19.58	20.50
		1	13	19.55	19.70	19.58	20.50
		1	24	19.87	19.42	19.29	20.50
		12	0	19.24	19.53	19.63	20.50
		12	6	19.38	19.55	19.44	20.50
		12	13	19.62	19.52	19.37	20.50
		25	0	19.46	19.71	19.65	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	19.26	19.83	19.71	20.50
		1	25	19.27	19.78	19.52	20.50
		1	49	19.58	19.77	19.52	20.50
		25	0	19.26	19.76	19.63	20.50
		25	13	19.29	19.74	19.54	20.50
		25	25	19.40	19.77	19.53	20.50
		50	0	19.36	19.78	19.60	20.50
	16QAM	1	0	19.63	20.15	20.04	20.50
		1	25	19.54	20.04	19.89	20.50
		1	49	19.88	20.07	19.92	20.50
		25	0	19.24	19.72	19.61	20.50
		25	13	19.24	19.70	19.49	20.50
		25	25	19.37	19.74	19.53	20.50
		50	0	19.33	19.76	19.60	20.50
	64QAM	1	0	19.44	20.02	19.92	20.50
		1	25	19.47	19.97	19.72	20.50
		1	49	19.71	20.03	19.74	20.50
		25	0	19.24	19.74	19.61	20.50
		25	13	19.26	19.70	19.51	20.50
		25	25	19.39	19.74	19.53	20.50
		50	0	19.31	19.74	19.56	20.50
	256QAM	1	0	19.47	19.54	19.82	20.50
		1	25	19.85	19.86	19.90	20.50
		1	49	20.03	19.40	19.37	20.50
		25	0	19.36	19.81	19.77	20.50
		25	13	19.30	19.55	19.40	20.50
		25	25	19.54	19.70	19.45	20.50
		50	0	19.44	19.67	19.37	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	19.26	19.81	19.74	20.50
		1	38	19.47	19.86	19.73	20.50
		1	74	19.73	19.71	19.57	20.50
		36	0	19.36	19.80	19.74	20.50

		36	18	19.46	19.82	19.65	20.50
		36	39	19.58	19.74	19.57	20.50
		75	0	19.49	19.80	19.67	20.50
	16QAM	1	0	19.67	20.17	20.04	20.50
		1	38	19.88	20.21	20.01	20.50
		1	74	20.03	20.08	19.92	20.50
		36	0	19.37	19.82	19.77	20.50
		36	18	19.46	19.83	19.67	20.50
		36	39	19.60	19.77	19.56	20.50
		75	0	19.49	19.83	19.69	20.50
	64QAM	1	0	19.42	19.89	19.92	20.50
		1	38	19.64	19.92	19.94	20.50
		1	74	19.83	19.81	19.69	20.50
		36	0	19.37	19.81	19.77	20.50
		36	18	19.49	19.83	19.69	20.50
		36	39	19.62	19.78	19.57	20.50
		75	0	19.48	19.81	19.65	20.50
	256QAM	1	0	19.55	19.84	19.64	20.50
		1	38	19.65	19.92	19.70	20.50
		1	74	19.97	19.50	19.37	20.50
		36	0	19.14	19.65	19.69	20.50
		36	18	19.34	19.85	19.46	20.50
		36	39	19.68	19.48	19.51	20.50
		75	0	19.56	19.71	19.71	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	19.27	19.74	19.81	20.50
		1	50	19.64	19.83	19.76	20.50
		1	99	19.80	19.65	19.51	20.50
		50	0	19.46	19.85	19.81	20.50
		50	25	19.63	19.88	19.76	20.50
		50	50	19.79	19.83	19.69	20.50
		100	0	19.61	19.80	19.74	20.50
	16QAM	1	0	19.57	20.07	20.07	20.50
		1	50	19.92	20.19	20.12	20.50
		1	99	20.10	20.02	19.77	20.50
		50	0	19.42	19.81	19.78	20.50
		50	25	19.62	19.83	19.74	20.50
		50	50	19.76	19.79	19.65	20.50
		100	0	19.60	19.78	19.73	20.50
	64QAM	1	0	19.39	19.90	19.90	20.50
		1	50	19.85	20.08	19.86	20.50
		1	99	19.99	19.76	19.61	20.50

		50	0	19.42	19.79	19.79	20.50
		50	25	19.62	19.85	19.74	20.50
		50	50	19.74	19.78	19.65	20.50
		100	0	19.60	19.79	19.73	20.50
	256QAM	1	0	19.45	19.72	19.72	20.50
		1	50	19.67	19.90	19.68	20.50
		1	99	19.81	19.58	19.43	20.50
		50	0	19.24	19.61	19.61	20.50
		50	25	19.44	19.67	19.56	20.50
		50	50	19.56	19.60	19.47	20.50
		100	0	19.42	19.61	19.55	20.50

LTE B5							
Normal Power&Receiver on&Receiver off&Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	24.21	24.27	24.30	25.00
		1	2	24.22	24.31	24.27	25.00
		1	5	24.22	24.32	24.28	25.00
		3	0	24.28	24.29	24.30	25.00
		3	2	24.22	24.32	24.26	25.00
		3	3	24.29	24.32	24.29	25.00
		6	0	23.27	23.36	23.30	24.00
	16QAM	1	0	23.58	23.53	23.51	24.00
		1	2	23.62	23.53	23.51	24.00
		1	5	23.62	23.56	23.53	24.00
		3	0	23.28	23.39	23.32	24.00
		3	2	23.24	23.35	23.37	24.00
		3	3	23.30	23.33	23.32	24.00
		6	0	22.39	22.43	22.40	23.00
	64QAM	1	0	22.41	22.56	22.53	23.00
		1	2	22.39	22.54	22.43	23.00
		1	5	22.42	22.56	22.41	23.00
		3	0	22.40	22.47	22.42	23.00
		3	2	22.37	22.46	22.38	23.00
		3	3	22.41	22.42	22.42	23.00
		6	0	21.24	21.33	21.30	22.00
	256QAM	1	0	21.26	21.43	21.59	22.00
		1	2	21.60	21.24	21.50	22.00
		1	5	21.55	21.41	21.20	22.00
		3	0	20.99	21.17	21.23	22.00
		3	2	21.02	21.12	21.23	22.00

		3	3	21.35	21.25	21.17	22.00
		6	0	20.33	20.24	20.08	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.29	24.36	24.34	25.00
		1	7	24.29	24.35	24.31	25.00
		1	14	24.31	24.38	24.24	25.00
		8	0	23.34	23.36	23.31	24.00
		8	4	23.34	23.36	23.30	24.00
		8	7	23.36	23.36	23.30	24.00
		15	0	23.35	23.36	23.31	24.00
	16QAM	1	0	23.52	23.56	23.58	24.00
		1	7	23.53	23.55	23.50	24.00
		1	14	23.57	23.57	23.56	24.00
		8	0	22.42	22.43	22.43	23.00
		8	4	22.40	22.44	22.37	23.00
		8	7	22.44	22.46	22.37	23.00
		15	0	22.39	22.42	22.35	23.00
	64QAM	1	0	22.49	22.58	22.50	23.00
		1	7	22.48	22.59	22.50	23.00
		1	14	22.52	22.58	22.51	23.00
		8	0	21.42	21.43	21.39	22.00
		8	4	21.37	21.43	21.31	22.00
		8	7	21.41	21.38	21.34	22.00
		15	0	21.34	21.35	21.30	22.00
	256QAM	1	0	21.18	21.25	21.31	22.00
		1	7	21.46	21.38	21.18	22.00
		1	14	21.43	21.47	21.26	22.00
		8	0	20.13	20.31	20.25	21.00
		8	4	20.30	20.04	20.27	21.00
		8	7	20.17	20.25	20.25	21.00
		15	0	20.05	20.02	20.10	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.29	24.36	24.37	25.00
		1	13	24.33	24.42	24.40	25.00
		1	24	24.44	24.38	24.37	25.00
		12	0	23.42	23.47	23.43	24.00
		12	6	23.44	23.45	23.41	24.00
		12	13	23.44	23.47	23.40	24.00
		25	0	23.47	23.47	23.43	24.00
	16QAM	1	0	23.60	23.68	23.70	24.00
		1	13	23.66	23.65	23.63	24.00

		1	24	23.71	23.70	23.58	24.00
		12	0	22.44	22.45	22.42	23.00
		12	6	22.41	22.45	22.38	23.00
		12	13	22.41	22.46	22.40	23.00
		25	0	22.46	22.46	22.45	23.00
	64QAM	1	0	22.52	22.59	22.63	23.00
		1	13	22.56	22.59	22.52	23.00
		1	24	22.61	22.59	22.58	23.00
		12	0	21.45	21.49	21.47	22.00
		12	6	21.48	21.45	21.43	22.00
		12	13	21.47	21.48	21.44	22.00
		25	0	21.41	21.44	21.40	22.00
	256QAM	1	0	21.52	21.45	21.27	22.00
		1	13	21.36	21.54	21.46	22.00
		1	24	21.63	21.63	21.28	22.00
		12	0	20.15	20.31	20.33	21.00
		12	6	20.36	20.08	20.11	21.00
		12	13	20.33	20.31	20.19	21.00
		25	0	20.35	20.06	20.24	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	24.33	24.44	24.42	25.00
		1	25	24.36	24.42	24.42	25.00
		1	49	24.53	24.46	24.43	25.00
		25	0	23.45	23.47	23.47	24.00
		25	13	23.47	23.47	23.43	24.00
		25	25	23.51	23.49	23.43	24.00
		50	0	23.49	23.48	23.46	24.00
	16QAM	1	0	23.60	23.70	23.68	24.00
		1	25	23.66	23.64	23.61	24.00
		1	49	23.74	23.69	23.60	24.00
		25	0	22.44	22.46	22.47	23.00
		25	13	22.46	22.46	22.44	23.00
		25	25	22.51	22.50	22.45	23.00
		50	0	22.48	22.47	22.45	23.00
	64QAM	1	0	22.56	22.65	22.61	23.00
		1	25	22.60	22.60	22.58	23.00
		1	49	22.69	22.69	22.52	23.00
		25	0	21.45	21.43	21.45	22.00
		25	13	21.44	21.44	21.39	22.00
		25	25	21.51	21.47	21.41	22.00
		50	0	21.43	21.44	21.44	22.00
	256QAM	1	0	21.42	21.47	21.37	22.00

		1	25	21.32	21.40	21.30	22.00
		1	49	21.37	21.65	21.36	22.00
		25	0	20.39	20.09	20.33	21.00
		25	13	20.32	20.24	20.31	21.00
		25	25	20.17	20.27	20.15	21.00
		50	0	20.39	20.34	20.34	21.00

LTE B7							
Receiver on&Hotspot on--Main Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.17	19.92	19.70	20.50
		1	13	19.30	19.85	19.76	20.50
		1	24	19.48	19.77	19.90	20.50
		12	0	19.29	19.95	19.76	20.50
		12	6	19.36	19.87	19.80	20.50
		12	13	19.44	19.83	19.83	20.50
		25	0	19.39	19.89	19.82	20.50
	16QAM	1	0	19.60	20.30	20.10	20.50
		1	13	19.73	20.21	20.12	20.50
		1	24	19.90	20.12	20.24	20.50
		12	0	19.32	19.95	19.80	20.50
		12	6	19.39	19.90	19.82	20.50
		12	13	19.46	19.83	19.86	20.50
		25	0	19.38	19.87	19.83	20.50
	64QAM	1	0	19.37	20.04	19.98	20.50
		1	13	19.47	19.94	20.02	20.50
		1	24	19.64	19.88	20.05	20.50
		12	0	19.36	19.96	19.83	20.50
		12	6	19.39	19.89	19.87	20.50
		12	13	19.47	19.88	19.89	20.50
		25	0	19.39	19.88	19.82	20.50
	256QAM	1	0	18.94	18.88	19.12	20.50
		1	13	19.86	19.58	19.46	20.50
		1	24	19.65	19.75	19.65	20.50
		12	0	18.17	18.98	18.66	20.00
		12	6	18.85	18.81	18.79	20.00
		12	13	19.14	18.72	19.42	20.00
		25	0	18.80	18.74	18.68	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.29	19.98	19.65	20.50
		1	25	19.44	19.88	19.65	20.50

		1	49	19.92	19.74	19.92	20.50
		25	0	19.32	19.92	19.65	20.50
		25	13	19.49	19.83	19.71	20.50
		25	25	19.69	19.76	19.81	20.50
		50	0	19.51	19.86	19.73	20.50
	16QAM	1	0	19.65	20.35	20.01	20.50
		1	25	19.81	20.22	20.04	20.50
		1	49	20.28	20.06	20.28	20.50
		25	0	19.31	19.90	19.62	20.50
		25	13	19.47	19.80	19.69	20.50
		25	25	19.65	19.73	19.80	20.50
		50	0	19.49	19.83	19.73	20.50
	64QAM	1	0	19.54	20.15	19.87	20.50
		1	25	19.60	19.98	19.92	20.50
		1	49	20.03	19.83	20.10	20.50
		25	0	19.33	19.90	19.64	20.50
		25	13	19.49	19.82	19.71	20.50
		25	25	19.67	19.73	19.82	20.50
		50	0	19.48	19.83	19.72	20.50
	256QAM	1	0	18.96	19.14	19.26	20.50
		1	25	19.84	19.86	19.72	20.50
		1	49	19.89	19.77	19.87	20.50
		25	0	18.57	18.96	18.26	20.00
		25	13	18.75	19.07	18.73	20.00
		25	25	19.14	18.94	19.02	20.00
		50	0	18.62	18.74	18.84	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.28	20.01	19.54	20.50
		1	38	19.71	19.88	19.67	20.50
		1	74	20.07	19.70	19.94	20.50
		36	0	19.42	19.92	19.57	20.50
		36	18	19.65	19.85	19.65	20.50
		36	39	19.90	19.70	19.79	20.50
		75	0	19.65	19.85	19.67	20.50
	16QAM	1	0	19.63	20.37	19.90	20.50
		1	38	20.06	20.20	20.06	20.50
		1	74	20.47	19.99	20.33	20.50
		36	0	19.45	19.92	19.57	20.50
		36	18	19.67	19.85	19.67	20.50
		36	39	19.90	19.70	19.79	20.50
		75	0	19.69	19.86	19.69	20.50
	64QAM	1	0	19.39	20.14	19.67	20.50

		1	38	19.87	20.04	19.88	20.50
		1	74	20.22	19.80	20.11	20.50
		36	0	19.47	19.95	19.58	20.50
		36	18	19.70	19.88	19.70	20.50
		36	39	19.95	19.72	19.83	20.50
		75	0	19.65	19.83	19.67	20.50
	256QAM	1	0	18.94	18.84	19.22	20.50
		1	38	19.74	19.92	19.86	20.50
		1	74	20.05	19.77	19.83	20.50
		36	0	18.57	18.70	18.38	20.00
		36	18	18.91	18.91	18.61	20.00
		36	39	18.96	18.80	19.06	20.00
		75	0	18.52	18.66	18.56	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.31	20.06	19.46	20.50
		1	50	19.87	19.94	19.62	20.50
		1	99	20.17	19.69	19.99	20.50
		50	0	19.55	20.02	19.56	20.50
		50	25	19.85	19.92	19.69	20.50
		50	50	20.07	20.03	19.79	20.50
		100	0	20.01	19.88	19.70	20.50
	16QAM	1	0	19.64	20.40	19.80	20.50
		1	50	20.27	20.33	19.96	20.50
		1	99	20.45	20.05	20.36	20.50
		50	0	19.54	19.99	19.56	20.50
		50	25	19.83	19.90	19.67	20.50
		50	50	20.06	19.74	19.80	20.50
		100	0	19.79	19.85	19.65	20.50
	64QAM	1	0	19.46	20.21	19.67	20.50
		1	50	20.07	20.15	19.83	20.50
		1	99	20.33	19.89	20.17	20.50
		50	0	19.54	19.99	19.55	20.50
		50	25	19.83	19.90	19.65	20.50
		50	50	20.06	19.74	19.79	20.50
		100	0	19.81	19.86	19.67	20.50
	256QAM	1	0	19.06	19.08	19.12	20.50
		1	50	20.06	19.90	19.76	20.50
		1	99	20.07	19.89	19.79	20.50
		50	0	18.57	18.84	18.48	20.00
		50	25	18.83	18.83	18.65	20.00
		50	50	19.30	19.02	19.30	20.00
		100	0	18.44	18.96	18.72	20.00

LTE B7							
Receiver off--Main Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	20.15	20.89	20.67	21.50
		1	13	20.29	20.81	20.74	21.50
		1	24	20.45	20.74	20.87	21.50
		12	0	20.28	20.92	20.74	21.50
		12	6	20.33	20.83	20.80	21.50
		12	13	20.42	20.83	20.82	21.50
		25	0	20.38	20.88	20.82	21.50
	16QAM	1	0	20.56	21.28	21.03	21.50
		1	13	20.65	21.17	21.10	21.50
		1	24	20.81	21.09	21.22	21.50
		12	0	20.30	20.95	20.76	21.50
		12	6	20.38	20.87	20.80	21.50
		12	13	20.44	20.83	20.83	21.50
		25	0	20.37	20.86	20.81	21.50
	64QAM	1	0	20.47	21.03	20.90	21.50
		1	13	20.49	20.96	20.89	21.50
		1	24	20.65	20.88	21.02	21.50
		12	0	19.31	19.98	19.78	21.00
		12	6	19.36	19.86	19.85	21.00
		12	13	19.46	19.82	19.85	21.00
		25	0	19.36	19.85	19.81	21.00
	256QAM	1	0	19.46	19.46	19.68	21.00
		1	13	20.00	20.32	20.12	21.00
		1	24	20.05	20.19	20.27	21.00
		12	0	18.14	18.24	18.34	20.00
		12	6	18.83	18.69	18.83	20.00
		12	13	18.92	18.90	18.98	20.00
		25	0	18.56	18.62	18.46	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.27	20.96	20.63	21.50
		1	25	20.40	20.83	20.65	21.50
		1	49	20.88	20.73	20.92	21.50
		25	0	20.31	20.92	20.64	21.50
		25	13	20.48	20.81	20.69	21.50
		25	25	20.67	20.74	20.81	21.50
		50	0	20.49	20.85	20.73	21.50

	16QAM	1	0	20.63	21.30	20.94	21.50
		1	25	20.76	21.18	20.98	21.50
		1	49	21.19	21.03	21.24	21.50
		25	0	20.30	20.92	20.64	21.50
		25	13	20.47	20.80	20.70	21.50
		25	25	20.65	20.73	20.81	21.50
		50	0	20.47	20.86	20.73	21.50
	64QAM	1	0	20.40	21.18	20.86	21.50
		1	25	20.60	21.08	20.78	21.50
		1	49	21.12	20.95	21.03	21.50
		25	0	19.31	19.89	19.64	21.00
		25	13	19.47	19.80	19.70	21.00
		25	25	19.67	19.71	19.81	21.00
		50	0	19.48	19.83	19.71	21.00
	256QAM	1	0	19.46	19.50	19.66	21.00
		1	25	20.28	20.50	20.26	21.00
		1	49	20.61	20.35	20.75	21.00
		25	0	18.30	18.34	18.68	20.00
		25	13	18.85	18.83	19.03	20.00
		25	25	19.10	18.86	19.28	20.00
		50	0	18.34	18.60	18.80	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	20.24	20.99	20.51	21.50
		1	38	20.67	20.85	20.65	21.50
		1	74	21.06	20.67	20.92	21.50
		36	0	20.42	20.92	20.57	21.50
		36	18	20.67	20.86	20.65	21.50
		36	39	20.89	20.70	20.79	21.50
		75	0	20.65	20.85	20.69	21.50
	16QAM	1	0	20.60	21.38	20.88	21.50
		1	38	21.04	21.23	21.03	21.50
		1	74	21.42	21.05	21.24	21.50
		36	0	20.42	20.92	20.58	21.50
		36	18	20.65	20.86	20.65	21.50
		36	39	20.90	20.70	20.80	21.50
		75	0	20.65	20.86	20.70	21.50
	64QAM	1	0	20.48	21.13	20.65	21.50
		1	38	20.88	20.99	20.80	21.50
		1	74	21.19	20.80	21.09	21.50
		36	0	19.46	19.96	19.61	21.00
		36	18	19.70	19.89	19.70	21.00
		36	39	19.90	19.74	19.82	21.00

	256QAM	75	0	19.65	19.82	19.67	21.00
		1	0	19.38	19.36	19.70	21.00
		1	38	20.26	20.44	20.14	21.00
		1	74	20.33	20.23	20.49	21.00
		36	0	18.32	18.42	18.62	20.00
		36	18	18.83	18.59	19.09	20.00
		36	39	19.14	19.06	19.10	20.00
		75	0	18.52	18.42	18.74	20.00
		75	0	18.52	18.42	18.74	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	20.27	21.08	20.46	21.50
		1	50	20.87	20.95	20.61	21.50
		1	99	21.18	20.67	20.98	21.50
		50	0	20.55	21.03	20.56	21.50
		50	25	20.87	20.92	20.67	21.50
		50	50	21.07	20.74	20.81	21.50
		100	0	20.82	20.90	20.70	21.50
	16QAM	1	0	20.65	21.43	20.80	21.50
		1	50	21.23	21.29	20.97	21.50
		1	99	21.49	20.98	21.33	21.50
		50	0	20.56	21.02	20.55	21.50
		50	25	20.86	20.90	20.67	21.50
		50	50	21.07	20.74	20.80	21.50
		100	0	20.80	20.85	20.69	21.50
	64QAM	1	0	20.37	21.26	20.58	21.50
		1	50	21.01	21.18	20.83	21.50
		1	99	21.31	20.85	21.22	21.50
		50	0	19.53	19.99	19.55	21.00
		50	25	19.83	19.90	19.67	21.00
		50	50	20.05	19.73	19.79	21.00
		100	0	19.80	19.86	19.67	21.00
	256QAM	1	0	19.52	19.34	19.60	21.00
		1	50	20.02	20.20	20.28	21.00
		1	99	20.35	20.33	20.49	21.00
		50	0	18.34	18.56	18.52	20.00
		50	25	18.69	18.81	19.03	20.00
		50	50	19.28	19.14	18.96	20.00
		100	0	18.40	18.46	19.00	20.00

LTE B7							
Normal Power--Main Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.26	23.09	22.81	23.50
		1	13	22.41	23.01	22.83	23.50
		1	24	22.55	22.91	22.93	23.50
		12	0	21.38	22.13	21.85	23.00
		12	6	21.44	22.06	21.89	23.00
		12	13	21.54	22.03	21.91	23.00
		25	0	21.48	22.09	21.92	23.00
	16QAM	1	0	21.57	22.41	22.11	23.00
		1	13	21.73	22.31	22.10	23.00
		1	24	21.92	22.30	22.22	23.00
		12	0	20.42	21.17	20.88	22.00
		12	6	20.49	21.09	20.92	22.00
		12	13	20.57	21.06	20.94	22.00
		25	0	20.48	21.07	20.90	22.00
	64QAM	1	0	20.49	21.40	21.05	22.00
		1	13	20.63	21.28	21.14	22.00
		1	24	20.79	21.12	21.15	22.00
		12	0	19.46	20.18	19.91	21.00
		12	6	19.53	20.12	19.95	21.00
		12	13	19.61	20.07	19.96	21.00
		25	0	19.50	20.05	19.91	21.00
	256QAM	1	0	19.48	20.30	19.67	21.00
		1	13	19.90	20.05	19.79	21.00
		1	24	20.21	19.76	20.22	21.00
		12	0	18.54	19.03	18.47	20.00
		12	6	18.79	18.70	18.46	20.00
		12	13	19.00	18.50	18.68	20.00
		25	0	18.74	18.75	18.48	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.38	23.19	22.71	23.50
		1	25	22.57	23.04	22.73	23.50
		1	49	23.05	22.89	23.00	23.50
		25	0	21.45	22.14	21.73	23.00
		25	13	21.64	22.04	21.80	23.00
		25	25	21.84	21.95	21.92	23.00
		50	0	21.62	22.07	21.83	23.00
	16QAM	1	0	21.70	22.50	21.95	23.00
		1	25	21.90	22.28	21.99	23.00

		1	49	22.33	22.17	22.36	23.00
		25	0	20.45	21.12	20.73	22.00
		25	13	20.65	20.99	20.79	22.00
		25	25	20.83	20.93	20.91	22.00
		50	0	20.65	21.04	20.84	22.00
	64QAM	1	0	20.59	21.39	20.92	22.00
		1	25	20.70	21.20	20.93	22.00
		1	49	21.28	21.10	21.20	22.00
		25	0	19.44	20.12	19.75	21.00
		25	13	19.62	20.00	19.80	21.00
		25	25	19.82	19.93	19.93	21.00
		50	0	19.61	20.05	19.84	21.00
	256QAM	1	0	19.36	20.24	19.61	21.00
		1	25	20.00	20.11	19.43	21.00
		1	49	20.17	19.80	19.98	21.00
		25	0	18.42	19.01	18.35	20.00
		25	13	18.65	18.88	18.44	20.00
		25	25	18.76	18.60	18.44	20.00
		50	0	18.64	18.63	18.30	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.37	23.18	22.65	23.50
		1	38	22.87	23.08	22.75	23.50
		1	74	23.30	22.87	23.06	23.50
		36	0	21.58	22.16	21.68	23.00
		36	18	21.85	22.06	21.76	23.00
		36	39	22.12	21.91	21.88	23.00
		75	0	21.86	22.08	21.80	23.00
	16QAM	1	0	21.58	22.60	21.95	23.00
		1	38	22.24	22.37	22.08	23.00
		1	74	22.53	22.08	22.41	23.00
		36	0	20.59	21.16	20.70	22.00
		36	18	20.84	21.09	20.77	22.00
		36	39	21.10	20.92	20.91	22.00
		75	0	20.85	21.07	20.81	22.00
	64QAM	1	0	20.53	21.43	20.90	22.00
		1	38	21.08	21.25	20.88	22.00
		1	74	21.52	20.99	21.21	22.00
		36	0	19.62	20.19	19.76	21.00
		36	18	19.86	20.10	19.85	21.00
		36	39	20.12	19.92	19.95	21.00
		75	0	19.82	20.05	19.82	21.00
	256QAM	1	0	19.60	20.42	19.39	21.00

		1	38	19.90	20.11	19.71	21.00
		1	74	20.09	19.76	19.90	21.00
		36	0	18.54	18.93	18.27	20.00
		36	18	18.73	18.64	18.52	20.00
		36	39	18.94	18.42	18.70	20.00
		75	0	18.56	18.91	18.36	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	22.41	23.30	22.57	23.50
		1	50	23.07	23.12	22.71	23.50
		1	99	23.42	22.83	23.07	23.50
		50	0	21.71	22.25	21.68	23.00
		50	25	22.05	22.14	21.78	23.00
		50	50	22.29	21.95	21.93	23.00
		100	0	22.01	22.08	21.82	23.00
	16QAM	1	0	21.81	22.63	21.85	23.00
		1	50	22.48	22.54	22.05	23.00
		1	99	22.71	22.12	22.30	23.00
		50	0	20.70	21.22	20.68	22.00
		50	25	21.04	21.12	20.80	22.00
		50	50	21.29	20.94	20.92	22.00
		100	0	20.97	21.05	20.80	22.00
	64QAM	1	0	20.63	21.52	20.89	22.00
		1	50	21.28	21.39	20.95	22.00
		1	99	21.59	21.10	21.40	22.00
		50	0	19.70	20.23	19.69	21.00
		50	25	20.05	20.10	19.78	21.00
		50	50	20.28	19.92	19.92	21.00
		100	0	19.96	20.05	19.82	21.00
	256QAM	1	0	19.58	20.26	19.61	21.00
		1	50	20.12	20.25	19.63	21.00
		1	99	20.37	19.68	20.08	21.00
		50	0	18.26	18.81	18.35	20.00
		50	25	18.77	18.80	18.38	20.00
		50	50	19.00	18.68	18.72	20.00
		100	0	18.62	18.89	18.44	20.00

LTE B12							
Normal Power&Receiver on&Receiver off&Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.02	22.83	22.84	24.00
		1	2	23.01	22.82	22.79	24.00
		1	5	22.99	22.83	22.75	24.00
		3	0	23.03	22.81	22.85	24.00
		3	2	23.01	22.83	22.84	24.00
		3	3	23.03	22.86	22.85	24.00
		6	0	21.95	21.86	21.86	23.00
	16QAM	1	0	22.23	22.14	22.08	23.00
		1	2	22.25	22.09	22.05	23.00
		1	5	22.29	22.11	22.08	23.00
		3	0	21.96	21.81	21.88	23.00
		3	2	21.96	21.80	21.82	23.00
		3	3	21.96	21.80	21.81	23.00
		6	0	20.99	20.89	20.92	22.00
	64QAM	1	0	21.11	21.09	21.09	22.00
		1	2	21.13	21.10	21.08	22.00
		1	5	21.15	20.97	21.03	22.00
		3	0	21.07	21.01	20.98	22.00
		3	2	21.02	20.97	20.91	22.00
		3	3	21.05	20.97	20.92	22.00
		6	0	20.13	19.98	20.05	21.00
	256QAM	1	0	19.90	20.39	19.90	21.00
		1	2	20.39	20.24	20.00	21.00
		1	5	20.05	20.26	20.24	21.00
		3	0	19.78	19.66	19.91	21.00
		3	2	19.89	20.14	19.96	21.00
		3	3	19.77	19.71	19.86	21.00
		6	0	19.06	18.91	18.81	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	23.00	22.87	22.83	24.00
		1	7	22.97	22.86	22.78	24.00
		1	14	22.95	22.87	22.82	24.00
		8	0	22.01	21.85	21.91	23.00
		8	4	21.96	21.83	21.87	23.00
		8	7	21.98	21.85	21.85	23.00
		15	0	21.96	21.86	21.88	23.00

	16QAM	1	0	22.21	22.09	22.12	23.00
		1	7	22.20	22.09	22.11	23.00
		1	14	22.23	22.18	22.16	23.00
		8	0	21.06	20.91	20.94	22.00
		8	4	21.04	20.93	20.92	22.00
		8	7	21.03	20.92	20.93	22.00
		15	0	20.96	20.91	20.84	22.00
	64QAM	1	0	21.16	20.96	20.99	22.00
		1	7	21.07	20.92	20.92	22.00
		1	14	21.18	21.07	20.96	22.00
		8	0	20.20	20.07	20.12	21.00
		8	4	20.16	20.05	20.11	21.00
		8	7	20.14	20.11	20.12	21.00
		15	0	20.12	20.00	20.05	21.00
	256QAM	1	0	20.14	20.29	20.14	21.00
		1	7	19.99	20.30	20.10	21.00
		1	14	19.93	20.18	20.02	21.00
		8	0	19.04	18.94	18.95	20.00
		8	4	19.03	19.00	18.82	20.00
		8	7	18.99	18.89	18.78	20.00
		15	0	19.12	19.29	18.75	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.02	22.93	22.90	24.00
		1	13	22.99	22.90	22.89	24.00
		1	24	23.01	22.96	22.93	24.00
		12	0	22.02	21.91	21.96	23.00
		12	6	22.00	21.92	21.94	23.00
		12	13	22.01	21.95	21.93	23.00
		25	0	22.05	21.98	22.00	23.00
	16QAM	1	0	22.34	22.28	22.13	23.00
		1	13	22.23	22.10	22.17	23.00
		1	24	22.33	22.15	22.20	23.00
		12	0	21.06	20.94	20.97	22.00
		12	6	21.02	20.93	20.94	22.00
		12	13	21.02	20.93	20.92	22.00
		25	0	21.00	20.95	20.97	22.00
	64QAM	1	0	21.25	21.15	21.03	22.00
		1	13	21.19	21.10	21.05	22.00
		1	24	21.27	21.14	21.11	22.00
		12	0	20.21	20.14	20.16	21.00
		12	6	20.18	20.10	20.17	21.00
		12	13	20.19	20.11	20.14	21.00

		25	0	20.14	20.05	20.14	21.00
	256QAM	1	0	20.28	20.27	20.04	21.00
		1	13	20.17	20.36	20.18	21.00
		1	24	19.95	20.18	20.02	21.00
		12	0	19.16	18.94	18.99	20.00
		12	6	18.83	18.98	18.74	20.00
		12	13	19.09	18.99	18.64	20.00
		25	0	19.02	19.07	19.15	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.05	23.01	22.96	24.00
		1	25	23.03	22.95	22.93	24.00
		1	49	23.04	23.01	22.98	24.00
		25	0	22.05	21.96	21.92	23.00
		25	13	22.02	21.97	21.98	23.00
		25	25	22.04	21.99	21.96	23.00
		50	0	22.04	21.99	21.95	23.00
	16QAM	1	0	22.35	22.29	22.25	23.00
		1	25	22.30	22.21	22.27	23.00
		1	49	22.33	22.33	22.29	23.00
		25	0	21.01	20.95	20.90	22.00
		25	13	21.01	20.97	20.94	22.00
		25	25	21.03	20.95	20.91	22.00
		50	0	21.02	20.98	20.91	22.00
	64QAM	1	0	21.23	21.20	21.18	22.00
		1	25	21.27	21.12	21.21	22.00
		1	49	21.17	21.19	21.18	22.00
		25	0	20.13	20.05	20.01	21.00
		25	13	20.12	20.07	20.07	21.00
		25	25	20.13	20.07	20.05	21.00
		50	0	20.14	20.05	20.02	21.00
	256QAM	1	0	20.10	20.15	20.04	21.00
		1	25	20.35	20.12	20.00	21.00
		1	49	20.15	20.18	20.10	21.00
		25	0	18.98	18.92	19.21	20.00
		25	13	18.81	19.02	18.78	20.00
		25	25	19.03	18.89	18.76	20.00
		50	0	19.06	19.19	18.95	20.00

LTE B13							
Normal Power&Receiver on&Receiver off&Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	24.15	24.18	24.24	25.00
		1	13	24.24	24.25	24.21	25.00
		1	24	24.30	24.30	24.30	25.00
		12	0	23.21	23.27	23.30	24.00
		12	6	23.27	23.28	23.31	24.00
		12	13	23.29	23.31	23.32	24.00
		25	0	23.26	23.29	23.33	24.00
	16QAM	1	0	23.41	23.44	23.56	24.00
		1	13	23.44	23.44	23.46	24.00
		1	24	23.50	23.56	23.59	24.00
		12	0	22.22	22.26	22.31	23.00
		12	6	22.27	22.28	22.30	23.00
		12	13	22.28	22.32	22.33	23.00
		25	0	22.28	22.29	22.30	23.00
	64QAM	1	0	22.42	22.42	22.45	23.00
		1	13	22.41	22.47	22.43	23.00
		1	24	22.45	22.46	22.50	23.00
		12	0	21.25	21.30	21.33	22.00
		12	6	21.31	21.34	21.32	22.00
		12	13	21.32	21.35	21.34	22.00
		25	0	21.25	21.29	21.31	22.00
	256QAM	1	0	21.57	21.35	21.53	22.00
		1	13	21.06	21.12	21.10	22.00
		1	24	20.97	21.11	21.07	22.00
		12	0	20.30	20.06	20.16	21.00
		12	6	19.83	19.95	19.85	21.00
		12	13	19.96	20.12	20.00	21.00
		25	0	20.38	20.18	20.30	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	24.27	/	25.00
		1	25	/	24.26	/	25.00
		1	49	/	24.36	/	25.00
		25	0	/	23.24	/	24.00
		25	13	/	23.30	/	24.00
		25	25	/	23.37	/	24.00
		50	0	/	23.31	/	24.00

	16QAM	1	0	/	23.51	/	24.00
		1	25	/	23.58	/	24.00
		1	49	/	23.62	/	24.00
		25	0	/	22.23	/	23.00
		25	13	/	22.30	/	23.00
		25	25	/	22.34	/	23.00
		50	0	/	22.26	/	23.00
	64QAM	1	0	/	22.45	/	23.00
		1	25	/	22.42	/	23.00
		1	49	/	22.49	/	23.00
		25	0	/	21.24	/	22.00
		25	13	/	21.29	/	22.00
		25	25	/	21.36	/	22.00
		50	0	/	21.26	/	22.00
	256QAM	1	0	/	21.11	/	22.00
		1	25	/	21.20	/	22.00
		1	49	/	21.35	/	22.00
		25	0	/	20.06	/	21.00
		25	13	/	20.03	/	21.00
		25	25	/	20.08	/	21.00
		50	0	/	20.10	/	21.00

LTE B48							
Normal Power--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				56265/3652.5	56490/3675	56715/3697.5	
5MHz	QPSK	1	0	22.95	23.09	23.20	24.50
		1	13	22.88	23.13	23.29	24.50
		1	24	22.97	23.09	23.27	24.50
		12	0	21.94	22.02	22.00	23.50
		12	6	21.81	22.11	22.02	23.50
		12	13	21.82	22.15	22.03	23.50
		25	0	21.87	22.05	22.24	23.50
	16QAM	1	0	21.86	22.25	22.50	23.50
		1	13	22.02	22.08	22.48	23.50
		1	24	21.98	22.21	22.56	23.50
		12	0	20.84	21.19	21.02	22.50
		12	6	20.87	21.13	21.08	22.50
		12	13	20.76	21.17	21.04	22.50
		25	0	20.97	20.99	21.11	22.50
	64QAM	1	0	20.95	21.18	21.51	22.50
		1	13	21.05	21.24	21.58	22.50
		1	24	20.98	21.05	21.56	22.50

		12	0	19.71	20.14	20.02	21.50
		12	6	19.90	20.12	20.08	21.50
		12	13	19.74	20.02	20.04	21.50
		25	0	19.94	20.04	19.99	21.50
	256QAM	1	0	19.89	20.18	19.84	21.50
		1	13	19.99	20.00	19.83	21.50
		1	24	20.36	20.15	19.99	21.50
		12	0	18.94	19.26	18.99	20.50
		12	6	18.84	19.12	19.07	20.50
		12	13	19.14	18.95	18.94	20.50
		25	0	18.88	19.30	19.14	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56290/3655	56490/3675	56690/3695	
10MHz	QPSK	1	0	22.79	23.24	23.14	24.50
		1	25	22.84	23.12	23.14	24.50
		1	49	22.94	23.12	23.09	24.50
		25	0	21.86	22.21	21.98	23.50
		25	13	21.86	22.01	22.07	23.50
		25	25	22.00	22.01	22.15	23.50
		50	0	21.99	22.06	21.99	23.50
	16QAM	1	0	22.06	21.97	21.69	23.50
		1	25	22.11	21.89	21.64	23.50
		1	49	22.25	21.85	21.79	23.50
		25	0	20.82	21.05	21.04	22.50
		25	13	20.83	20.99	21.07	22.50
		25	25	21.01	21.04	21.12	22.50
		50	0	20.88	21.04	21.07	22.50
	64QAM	1	0	21.06	21.07	20.61	22.50
		1	25	21.17	20.93	20.64	22.50
		1	49	21.22	20.95	20.74	22.50
		25	0	19.83	20.02	19.93	21.50
		25	13	19.91	20.13	20.06	21.50
		25	25	19.98	20.11	19.97	21.50
		50	0	19.95	20.20	19.96	21.50
	256QAM	1	0	19.83	20.08	19.86	21.50
		1	25	20.03	20.06	19.73	21.50
		1	49	20.30	19.89	20.03	21.50
		25	0	18.74	18.98	18.89	20.50
		25	13	18.98	19.02	18.83	20.50
		25	25	19.16	19.07	19.02	20.50
		50	0	19.00	18.96	19.06	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56315/3657.5	56490/3675	56665/3692.5	

15MHz	QPSK	1	0	22.85	23.20	22.99	24.50
		1	38	22.94	23.06	23.04	24.50
		1	74	23.06	23.07	23.15	24.50
		36	0	21.88	22.05	22.03	23.50
		36	18	21.99	21.99	22.09	23.50
		36	39	22.00	22.06	22.00	23.50
		75	0	21.93	22.06	22.11	23.50
	16QAM	1	0	22.09	22.04	21.78	23.50
		1	38	22.20	22.00	21.94	23.50
		1	74	22.37	21.93	21.95	23.50
		36	0	21.01	21.13	20.97	22.50
		36	18	20.95	21.15	20.92	22.50
		36	39	21.04	21.14	20.98	22.50
		75	0	20.96	21.05	21.04	22.50
	64QAM	1	0	21.12	21.14	20.87	22.50
		1	38	21.12	20.98	20.93	22.50
		1	74	21.38	20.85	20.94	22.50
		36	0	20.02	20.13	19.96	21.50
		36	18	20.07	20.06	20.04	21.50
		36	39	20.03	20.04	20.07	21.50
		75	0	19.97	20.05	20.05	21.50
	256QAM	1	0	19.97	20.16	19.84	21.50
		1	38	20.15	20.12	19.75	21.50
		1	74	20.14	20.05	20.25	21.50
		36	0	18.80	19.10	18.97	20.50
		36	18	18.96	18.86	18.81	20.50
		36	39	19.32	18.99	18.96	20.50
		75	0	19.10	19.14	19.12	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56340/3660	56490/3675	56640/3690	
20MHz	QPSK	1	0	22.93	23.23	22.92	24.50
		1	50	23.14	23.10	22.87	24.50
		1	99	23.39	23.00	23.01	24.50
		50	0	22.02	22.19	22.08	23.50
		50	25	21.99	22.21	22.10	23.50
		50	50	22.15	22.07	22.04	23.50
		100	0	22.14	22.12	22.12	23.50
	16QAM	1	0	22.03	22.35	21.95	23.50
		1	50	22.01	22.06	21.89	23.50
		1	99	22.31	22.12	22.02	23.50
		50	0	21.09	21.23	20.96	22.50
		50	25	21.16	21.06	20.96	22.50
		50	50	21.32	21.03	21.14	22.50

		100	0	21.05	21.18	21.09	22.50
	64QAM	1	0	20.89	21.34	20.86	22.50
		1	50	21.05	21.10	20.91	22.50
		1	99	21.34	21.13	21.15	22.50
		50	0	19.96	20.28	20.09	21.50
		50	25	20.04	20.06	20.01	21.50
		50	50	20.32	20.15	20.04	21.50
		100	0	20.04	20.24	20.10	21.50
	256QAM	1	0	19.99	20.36	19.70	21.50
		1	50	19.87	19.94	19.75	21.50
		1	99	20.32	20.01	20.03	21.50
		50	0	18.94	19.12	18.99	20.50
		50	25	19.06	19.06	18.95	20.50
		50	50	19.40	19.15	18.86	20.50
		100	0	19.00	19.24	19.06	20.50

LTE B48							
Receiver off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				56265/3652.5	56490/3675	56715/3697.5	
5MHz	QPSK	1	0	21.99	22.08	22.15	23.50
		1	13	21.94	22.06	22.27	23.50
		1	24	22.08	22.13	22.19	23.50
		12	0	21.83	22.11	22.20	23.50
		12	6	21.89	22.14	22.10	23.50
		12	13	21.98	22.09	22.13	23.50
		25	0	21.88	22.19	22.18	23.50
	16QAM	1	0	21.87	22.16	22.56	23.50
		1	13	21.95	22.20	22.63	23.50
		1	24	22.00	22.14	22.61	23.50
		12	0	20.91	21.09	21.09	22.50
		12	6	20.92	21.06	21.08	22.50
		12	13	20.82	21.14	21.17	22.50
		25	0	20.88	21.08	21.21	22.50
	64QAM	1	0	20.97	21.27	21.54	22.50
		1	13	21.05	21.18	21.47	22.50
		1	24	21.08	21.13	21.50	22.50
		12	0	19.79	20.07	20.15	21.50
		12	6	19.80	20.21	20.15	21.50
		12	13	19.85	20.15	20.18	21.50
		25	0	19.99	20.18	20.06	21.50
	256QAM	1	0	19.91	20.30	19.88	21.50
		1	13	20.21	20.04	19.75	21.50

		1	24	20.30	20.19	20.27	21.50
		12	0	18.86	19.26	19.07	20.50
		12	6	18.90	18.84	18.97	20.50
		12	13	19.28	18.93	18.94	20.50
		25	0	19.12	19.28	19.16	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56290/3655	56490/3675	56690/3695	
10MHz	QPSK	1	0	21.88	22.15	22.09	23.50
		1	25	22.05	22.21	22.07	23.50
		1	49	22.17	21.99	22.15	23.50
		25	0	21.86	22.11	22.12	23.50
		25	13	21.99	22.17	22.13	23.50
		25	25	22.02	22.03	22.11	23.50
		50	0	22.06	22.14	22.05	23.50
	16QAM	1	0	22.05	22.14	21.57	23.50
		1	25	22.14	22.04	21.76	23.50
		1	49	22.16	21.99	21.69	23.50
		25	0	20.83	21.07	20.99	22.50
		25	13	21.04	21.10	21.12	22.50
		25	25	21.13	21.02	21.03	22.50
		50	0	20.95	21.17	21.07	22.50
	64QAM	1	0	20.95	21.11	20.73	22.50
		1	25	21.09	20.91	20.73	22.50
		1	49	21.17	20.89	20.68	22.50
		25	0	19.96	20.07	19.98	21.50
		25	13	19.98	20.17	19.98	21.50
		25	25	19.96	19.98	20.17	21.50
		50	0	20.05	20.10	20.00	21.50
	256QAM	1	0	20.05	20.22	19.86	21.50
		1	25	20.13	20.22	19.81	21.50
		1	49	20.22	19.87	20.19	21.50
		25	0	18.80	18.90	18.91	20.50
		25	13	18.76	18.92	18.91	20.50
		25	25	19.34	18.87	18.88	20.50
		50	0	19.16	19.04	19.10	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56315/3657.5	56490/3675	56665/3692.5	
15MHz	QPSK	1	0	22.00	22.32	22.07	23.50
		1	38	22.11	22.09	22.12	23.50
		1	74	22.22	22.09	22.10	23.50
		36	0	21.96	22.12	21.98	23.50
		36	18	21.97	22.06	22.11	23.50
		36	39	22.08	22.00	22.10	23.50

	16QAM	75	0	22.09	22.12	22.22	23.50
		1	0	22.12	22.23	21.79	23.50
		1	38	22.17	22.08	22.02	23.50
		1	74	22.31	21.94	22.05	23.50
		36	0	21.00	21.20	20.92	22.50
		36	18	21.12	21.25	20.98	22.50
		36	39	21.12	21.08	21.16	22.50
		75	0	21.16	21.13	21.11	22.50
	64QAM	1	0	21.02	21.23	20.87	22.50
		1	38	21.26	21.15	20.96	22.50
		1	74	21.42	21.01	21.04	22.50
		36	0	20.06	20.20	19.92	21.50
		36	18	20.02	20.11	19.97	21.50
		36	39	20.11	20.08	20.03	21.50
		75	0	20.03	20.25	20.23	21.50
		75	0	20.03	20.25	20.23	21.50
	256QAM	1	0	19.97	20.30	19.88	21.50
		1	38	20.29	20.12	19.59	21.50
		1	74	20.20	19.93	20.35	21.50
		36	0	18.64	19.30	19.11	20.50
		36	18	18.78	18.90	18.75	20.50
		36	39	19.14	18.99	19.08	20.50
		75	0	19.00	19.28	19.26	20.50
		75	0	19.00	19.28	19.26	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56340/3660	56490/3675	56640/3690	
20MHz	QPSK	1	0	21.87	22.24	21.85	23.50
		1	50	22.27	22.14	21.95	23.50
		1	99	22.26	22.02	22.16	23.50
		50	0	21.97	22.34	22.01	23.50
		50	25	22.08	22.28	21.99	23.50
		50	50	22.29	22.20	22.09	23.50
		100	0	22.07	22.24	22.01	23.50
		100	0	22.07	22.24	22.01	23.50
	16QAM	1	0	21.91	22.32	21.86	23.50
		1	50	22.20	22.15	22.07	23.50
		1	99	22.43	22.06	22.01	23.50
		50	0	21.09	21.21	21.12	22.50
		50	25	21.10	21.10	21.15	22.50
		50	50	21.22	21.04	21.08	22.50
		100	0	21.13	21.27	21.01	22.50
		100	0	21.13	21.27	21.01	22.50
	64QAM	1	0	20.91	21.34	20.94	22.50
		1	50	21.23	21.24	21.07	22.50
		1	99	21.43	20.97	21.13	22.50
		50	0	20.09	20.29	20.01	21.50
		50	25	20.09	20.13	20.16	21.50
		50	25	20.09	20.13	20.16	21.50

		50	50	20.32	20.15	20.22	21.50
		100	0	20.09	20.16	20.03	21.50
	256QAM	1	0	19.97	20.32	19.92	21.50
		1	50	20.17	20.16	19.83	21.50
		1	99	20.28	20.05	20.41	21.50
		50	0	18.92	19.22	18.91	20.50
		50	25	18.84	18.82	18.97	20.50
		50	50	19.28	19.09	19.14	20.50
		100	0	19.24	19.14	19.10	20.50

LTE B48							
Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				56265/3652.5	56490/3675	56715/3697.5	
5MHz	QPSK	1	0	18.83	19.06	19.12	20.50
		1	13	18.94	19.14	19.19	20.50
		1	24	18.95	19.02	19.18	20.50
		12	0	18.82	19.15	19.05	20.50
		12	6	18.92	19.07	19.04	20.50
		12	13	18.95	19.07	19.17	20.50
		25	0	18.85	19.09	19.16	20.50
	16QAM	1	0	18.94	19.28	19.51	20.50
		1	13	19.07	19.32	19.59	20.50
		1	24	19.05	19.25	19.56	20.50
		12	0	18.88	19.19	19.10	20.50
		12	6	18.88	19.15	19.05	20.50
		12	13	18.79	19.05	19.08	20.50
		25	0	18.96	18.96	19.13	20.50
	64QAM	1	0	18.94	19.28	19.52	20.50
		1	13	19.02	19.36	19.50	20.50
		1	24	18.99	19.15	19.48	20.50
		12	0	18.87	19.17	19.10	20.50
		12	6	18.88	19.19	19.06	20.50
		12	13	18.80	19.18	19.14	20.50
		25	0	18.87	18.98	19.00	20.50
	256QAM	1	0	19.07	19.40	18.78	20.50
		1	13	19.27	19.07	18.96	20.50
		1	24	19.33	18.98	19.28	20.50
		12	0	19.06	19.26	18.92	20.50
		12	6	19.01	19.41	19.03	20.50
		12	13	19.27	19.20	19.14	20.50
		25	0	19.09	19.06	19.17	20.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56290/3655	56490/3675	56690/3695	
10MHz	QPSK	1	0	18.89	19.13	19.01	20.50
		1	25	18.95	19.13	19.06	20.50
		1	49	19.09	19.14	19.15	20.50
		25	0	18.86	19.21	19.15	20.50
		25	13	18.91	19.14	19.14	20.50
		25	25	18.99	19.14	19.08	20.50
		50	0	18.97	19.12	19.02	20.50
	16QAM	1	0	19.03	19.08	18.71	20.50
		1	25	19.00	18.96	18.66	20.50
		1	49	19.25	18.96	18.78	20.50
		25	0	18.95	19.10	19.09	20.50
		25	13	18.99	19.09	19.03	20.50
		25	25	19.09	19.00	19.14	20.50
		50	0	18.86	19.13	18.96	20.50
	64QAM	1	0	18.93	19.00	18.69	20.50
		1	25	19.01	18.95	18.60	20.50
		1	49	19.14	18.95	18.80	20.50
		25	0	18.95	19.15	19.11	20.50
		25	13	18.88	19.00	19.11	20.50
		25	25	19.03	18.99	19.19	20.50
		50	0	18.87	19.13	18.95	20.50
	256QAM	1	0	18.83	19.18	18.86	20.50
		1	25	19.03	19.01	18.70	20.50
		1	49	19.37	19.04	18.96	20.50
		25	0	18.82	19.16	18.82	20.50
		25	13	18.89	19.19	19.01	20.50
		25	25	19.23	19.08	19.06	20.50
		50	0	18.85	18.98	19.03	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56315/3657.5	56490/3675	56665/3692.5	
15MHz	QPSK	1	0	18.95	19.36	18.94	20.50
		1	38	19.05	19.37	18.96	20.50
		1	74	19.30	19.10	19.08	20.50
		36	0	18.88	19.15	18.98	20.50
		36	18	19.02	19.09	18.99	20.50
		36	39	19.14	19.04	19.15	20.50
		75	0	18.98	19.05	19.08	20.50
	16QAM	1	0	19.00	19.21	18.82	20.50
		1	38	19.33	19.17	18.87	20.50
		1	74	19.30	18.85	18.98	20.50
		36	0	19.03	19.20	18.92	20.50

	64QAM	36	18	18.98	19.11	18.94	20.50
		36	39	19.09	19.11	19.03	20.50
		75	0	19.00	19.06	19.05	20.50
		1	0	19.08	19.21	18.86	20.50
		1	38	19.21	19.18	18.93	20.50
		1	74	19.32	18.98	18.98	20.50
		36	0	18.89	19.30	19.04	20.50
		36	18	18.98	19.10	18.96	20.50
		36	39	19.21	19.09	19.17	20.50
	256QAM	75	0	19.00	19.18	19.03	20.50
		1	0	18.87	19.58	19.02	20.50
		1	38	19.29	19.29	18.72	20.50
		1	74	19.43	18.96	19.24	20.50
		36	0	18.80	19.40	19.12	20.50
		36	18	19.25	19.13	19.01	20.50
		36	39	19.27	19.04	19.28	20.50
		75	0	18.91	18.98	19.21	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56340/3660	56490/3675	56640/3690	
20MHz	QPSK	1	0	18.90	19.24	18.82	20.50
		1	50	19.06	19.16	18.94	20.50
		1	99	19.34	18.97	19.15	20.50
		50	0	19.03	19.34	18.99	20.50
		50	25	19.07	19.16	19.00	20.50
		50	50	19.17	19.18	19.16	20.50
		100	0	19.09	19.14	19.00	20.50
	16QAM	1	0	18.91	19.27	18.92	20.50
		1	50	19.14	19.14	18.99	20.50
		1	99	19.32	18.99	19.03	20.50
		50	0	18.97	19.17	19.00	20.50
		50	25	19.08	19.26	19.00	20.50
		50	50	19.20	19.17	19.19	20.50
		100	0	19.12	19.20	18.97	20.50
	64QAM	1	0	18.91	19.38	18.82	20.50
		1	50	19.13	19.13	18.90	20.50
		1	99	19.33	19.08	19.12	20.50
		50	0	18.96	19.18	19.00	20.50
		50	25	19.07	19.25	19.03	20.50
		50	50	19.31	19.04	19.08	20.50
		100	0	19.03	19.08	19.07	20.50
	256QAM	1	0	18.89	19.52	18.88	20.50
		1	50	19.27	19.21	18.98	20.50
		1	99	19.43	18.96	19.18	20.50

		50	0	19.12	19.30	19.06	20.50
		50	25	19.17	19.33	19.17	20.50
		50	50	19.23	18.98	19.02	20.50
		100	0	19.09	19.08	19.01	20.50

LTE B48							
Hotspot on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				56265/3652.5	56490/3675	56715/3697.5	
5MHz	QPSK	1	0	20.92	21.04	20.86	22.50
		1	13	21.03	21.02	20.86	22.50
		1	24	21.02	20.97	20.91	22.50
		12	0	20.90	21.06	20.80	22.50
		12	6	20.90	21.02	20.80	22.50
		12	13	20.94	21.00	20.85	22.50
		25	0	20.98	21.03	20.88	22.50
	16QAM	1	0	21.19	21.39	21.40	22.50
		1	13	21.29	21.45	21.47	22.50
		1	24	21.32	21.33	21.47	22.50
		12	0	20.89	21.08	20.84	22.50
		12	6	20.93	21.03	20.83	22.50
		12	13	20.97	21.07	20.86	22.50
		25	0	21.01	21.00	20.78	22.50
	64QAM	1	0	21.27	21.41	21.31	22.50
		1	13	21.29	21.39	21.49	22.50
		1	24	21.35	21.33	21.46	22.50
		12	0	20.13	20.32	20.02	21.50
		12	6	20.13	20.28	20.04	21.50
		12	13	20.16	20.26	20.05	21.50
		25	0	20.21	20.22	19.98	21.50
	256QAM	1	0	20.07	20.30	19.96	21.50
		1	13	19.93	20.03	20.03	21.50
		1	24	20.43	20.34	20.42	21.50
		12	0	19.28	19.40	19.42	20.50
		12	6	19.49	19.40	19.38	20.50
		12	13	19.11	19.19	19.11	20.50
		25	0	19.11	19.10	19.18	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56290/3655	56490/3675	56690/3695	
10MHz	QPSK	1	0	20.86	21.09	20.68	22.50
		1	25	20.95	20.95	20.74	22.50
		1	49	21.07	20.94	20.79	22.50
		25	0	20.93	21.11	20.73	22.50

		25	13	21.00	21.03	20.71	22.50
		25	25	21.09	20.98	20.76	22.50
		50	0	21.05	21.00	20.76	22.50
		1	0	21.38	21.27	20.64	22.50
		1	25	21.50	21.12	20.73	22.50
		1	49	21.62	21.11	20.76	22.50
		25	0	20.94	21.07	20.74	22.50
		25	13	20.99	21.00	20.74	22.50
		25	25	21.08	20.95	20.79	22.50
	16QAM	50	0	21.00	21.02	20.72	22.50
		1	0	21.37	21.29	20.67	22.50
		1	25	21.46	21.20	20.72	22.50
		1	49	21.60	21.08	20.77	22.50
		25	0	20.17	20.29	19.93	21.50
		25	13	20.20	20.20	19.92	21.50
		25	25	20.27	20.16	19.97	21.50
		50	0	20.21	20.22	19.90	21.50
	64QAM	1	0	19.85	20.18	19.98	21.50
		1	25	19.85	19.89	19.83	21.50
		1	49	20.45	20.16	20.14	21.50
		25	0	19.12	19.18	19.28	20.50
		25	13	19.23	19.38	19.30	20.50
		25	25	18.87	18.97	19.07	20.50
		50	0	19.19	19.16	18.92	20.50
	256QAM	1	0	19.85	20.18	19.98	21.50
		1	25	19.85	19.89	19.83	21.50
		1	49	20.45	20.16	20.14	21.50
		25	0	19.12	19.18	19.28	20.50
		25	13	19.23	19.38	19.30	20.50
		25	25	18.87	18.97	19.07	20.50
		50	0	19.19	19.16	18.92	20.50
Bandwidth	Modulation	RB Allocation	Offset	17.63	17.7	17.38	Tune-up
				56315/3657.5	56490/3675	56665/3692.5	
15MHz	QPSK	1	0	20.87	21.22	20.64	22.50
		1	38	21.00	21.03	20.75	22.50
		1	74	21.17	20.90	20.82	22.50
		36	0	20.96	21.08	20.68	22.50
		36	18	21.04	20.99	20.71	22.50
		36	39	21.18	20.93	20.79	22.50
		75	0	21.11	21.02	20.77	22.50
	16QAM	1	0	21.44	21.35	20.94	22.50
		1	38	21.59	21.21	21.02	22.50
		1	74	21.76	21.02	21.05	22.50
		36	0	21.01	21.18	20.69	22.50
		36	18	21.12	21.07	20.72	22.50
		36	39	21.18	21.01	20.74	22.50
		75	0	21.10	21.04	20.79	22.50
	64QAM	1	0	21.42	21.31	20.90	22.50
		1	38	21.59	21.22	20.99	22.50
		1	74	21.78	21.01	21.06	22.50

		36	0	20.23	20.35	19.86	21.50
		36	18	20.33	20.26	19.92	21.50
		36	39	20.40	20.23	19.97	21.50
		75	0	20.34	20.27	19.99	21.50
	256QAM	1	0	20.07	20.28	20.18	21.50
		1	38	20.01	19.89	20.03	21.50
		1	74	20.59	20.36	20.20	21.50
		36	0	19.36	19.16	19.50	20.50
		36	18	19.49	19.52	19.42	20.50
		36	39	18.97	19.07	19.29	20.50
		75	0	18.99	19.30	19.16	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				56340/3660	56490/3675	56640/3690	
20MHz	QPSK	1	0	20.91	21.22	20.55	22.50
		1	50	21.11	21.07	20.67	22.50
		1	99	21.35	20.87	20.75	22.50
		50	0	21.05	21.18	20.71	22.50
		50	25	21.19	21.12	20.71	22.50
		50	50	21.30	21.02	20.79	22.50
		100	0	21.23	21.09	20.74	22.50
	16QAM	1	0	21.26	21.53	20.81	22.50
		1	50	21.48	21.32	20.92	22.50
		1	99	21.67	21.11	21.03	22.50
		50	0	21.10	21.22	20.70	22.50
		50	25	21.22	21.10	20.72	22.50
		50	50	21.34	21.00	20.80	22.50
		100	0	21.16	21.10	20.68	22.50
	64QAM	1	0	21.23	21.51	20.80	22.50
		1	50	21.47	21.31	20.89	22.50
		1	99	21.65	21.11	20.99	22.50
		50	0	20.28	20.42	19.86	21.50
		50	25	20.40	20.26	19.90	21.50
		50	50	20.52	20.19	19.99	21.50
		100	0	20.38	20.28	19.90	21.50
	256QAM	1	0	20.17	20.28	20.14	21.50
		1	50	20.15	19.89	20.03	21.50
		1	99	20.55	20.36	20.32	21.50
		50	0	19.22	19.22	19.50	20.50
		50	25	19.37	19.50	19.36	20.50
		50	50	19.01	19.21	19.29	20.50
		100	0	19.27	19.20	19.24	20.50

LTE B66							
Normal Power--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.11	23.52	23.40	24.50
		1	2	23.10	23.47	23.34	24.50
		1	5	23.11	23.47	23.36	24.50
		3	0	23.08	23.47	23.33	24.50
		3	2	23.10	23.44	23.37	24.50
		3	3	23.12	23.45	23.39	24.50
		6	0	22.14	22.49	22.39	23.50
	16QAM	1	0	22.36	22.75	22.72	23.50
		1	2	22.46	22.73	22.65	23.50
		1	5	22.38	22.73	22.65	23.50
		3	0	22.07	22.44	22.38	23.50
		3	2	22.08	22.42	22.37	23.50
		3	3	22.11	22.41	22.41	23.50
		6	0	21.19	21.56	21.46	22.50
	64QAM	1	0	21.23	21.69	21.63	22.50
		1	2	21.23	21.64	21.47	22.50
		1	5	21.32	21.69	21.61	22.50
		3	0	21.22	21.58	21.49	22.50
		3	2	21.25	21.66	21.48	22.50
		3	3	21.29	21.62	21.49	22.50
		6	0	20.11	20.45	20.36	21.50
	256QAM	1	0	20.23	20.80	20.41	21.50
		1	2	20.88	20.92	20.67	21.50
		1	5	20.83	20.30	20.23	21.50
		3	0	20.15	20.39	20.24	21.50
		3	2	20.43	20.36	20.41	21.50
		3	3	20.25	20.02	20.01	21.50
		6	0	19.38	19.45	19.13	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.10	23.45	23.34	24.50
		1	7	23.19	23.45	23.35	24.50
		1	14	23.20	23.42	23.34	24.50
		8	0	22.20	22.50	22.36	23.50
		8	4	22.15	22.45	22.33	23.50
		8	7	22.21	22.49	22.38	23.50
		15	0	22.18	22.50	22.35	23.50
	16QAM	1	0	22.42	22.81	22.65	23.50

		1	7	22.48	22.77	22.60	23.50
		1	14	22.49	22.70	22.59	23.50
		8	0	21.22	21.53	21.46	22.50
		8	4	21.21	21.56	21.42	22.50
		8	7	21.28	21.54	21.44	22.50
		15	0	21.17	21.47	21.37	22.50
	64QAM	1	0	21.27	21.63	21.54	22.50
		1	7	21.30	21.65	21.53	22.50
		1	14	21.32	21.62	21.55	22.50
		8	0	20.20	20.53	20.45	21.50
		8	4	20.22	20.53	20.41	21.50
		8	7	20.27	20.55	20.43	21.50
		15	0	20.10	20.49	20.35	21.50
	256QAM	1	0	20.15	20.60	20.53	21.50
		1	7	20.64	20.62	20.43	21.50
		1	14	21.05	20.48	20.47	21.50
		8	0	19.23	19.23	19.36	20.50
		8	4	19.37	19.68	19.07	20.50
		8	7	19.57	19.16	19.51	20.50
		15	0	19.46	19.55	19.17	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.17	23.48	23.33	24.50
		1	13	23.24	23.47	23.36	24.50
		1	24	23.32	23.46	23.35	24.50
		12	0	22.25	22.57	22.46	23.50
		12	6	22.27	22.53	22.40	23.50
		12	13	22.29	22.49	22.41	23.50
		25	0	22.31	22.53	22.43	23.50
	16QAM	1	0	22.50	22.82	22.74	23.50
		1	13	22.53	22.81	22.68	23.50
		1	24	22.68	22.78	22.74	23.50
		12	0	21.27	21.54	21.46	22.50
		12	6	21.28	21.53	21.40	22.50
		12	13	21.29	21.52	21.41	22.50
		25	0	21.27	21.53	21.40	22.50
	64QAM	1	0	21.40	21.69	21.55	22.50
		1	13	21.46	21.62	21.50	22.50
		1	24	21.51	21.54	21.52	22.50
		12	0	20.27	20.58	20.48	21.50
		12	6	20.32	20.54	20.39	21.50
		12	13	20.30	20.53	20.42	21.50
		25	0	20.27	20.52	20.41	21.50

	256QAM	1	0	20.19	20.94	20.51	21.50
		1	13	20.66	20.76	20.65	21.50
		1	24	20.71	20.32	20.53	21.50
		12	0	19.35	19.51	19.20	20.50
		12	6	19.47	19.50	19.29	20.50
		12	13	19.61	19.30	19.29	20.50
		25	0	19.42	19.45	19.37	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.22	23.59	23.40	24.50
		1	25	23.27	23.47	23.36	24.50
		1	49	23.50	23.46	23.43	24.50
		25	0	22.28	22.54	22.43	23.50
		25	13	22.32	22.48	22.39	23.50
		25	25	22.42	22.45	22.35	23.50
		50	0	22.33	22.50	22.39	23.50
	16QAM	1	0	22.56	22.89	22.60	23.50
		1	25	22.65	22.73	22.58	23.50
		1	49	22.82	22.68	22.72	23.50
		25	0	21.27	21.54	21.40	22.50
		25	13	21.30	21.46	21.35	22.50
		25	25	21.42	21.45	21.34	22.50
		50	0	21.31	21.48	21.41	22.50
	64QAM	1	0	21.32	21.72	21.59	22.50
		1	25	21.37	21.64	21.50	22.50
		1	49	21.57	21.62	21.59	22.50
		25	0	20.28	20.52	20.39	21.50
		25	13	20.27	20.46	20.34	21.50
		25	25	20.38	20.42	20.32	21.50
		50	0	20.32	20.44	20.36	21.50
	256QAM	1	0	20.15	20.64	20.47	21.50
		1	25	20.60	20.74	20.59	21.50
		1	49	20.75	20.30	20.21	21.50
		25	0	19.35	19.39	19.16	20.50
		25	13	19.47	19.54	19.35	20.50
		25	25	19.65	19.28	19.17	20.50
		50	0	19.52	19.53	19.17	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.25	23.61	23.24	24.50
		1	38	23.43	23.58	23.38	24.50
		1	74	23.50	23.34	23.43	24.50
		36	0	22.36	22.58	22.37	23.50

		36	18	22.45	22.55	22.39	23.50
		36	39	22.51	22.44	22.40	23.50
		75	0	22.47	22.54	22.39	23.50
	16QAM	1	0	22.57	22.89	22.57	23.50
		1	38	22.72	22.86	22.65	23.50
		1	74	22.81	22.74	22.70	23.50
		36	0	21.34	21.62	21.41	22.50
		36	18	21.43	21.53	21.38	22.50
		36	39	21.49	21.44	21.40	22.50
		75	0	21.46	21.54	21.39	22.50
	64QAM	1	0	21.47	21.75	21.53	22.50
		1	38	21.73	21.68	21.54	22.50
		1	74	21.69	21.47	21.55	22.50
		36	0	20.38	20.64	20.42	21.50
		36	18	20.47	20.58	20.43	21.50
		36	39	20.53	20.46	20.42	21.50
		75	0	20.43	20.52	20.37	21.50
	256QAM	1	0	20.27	20.84	20.37	21.50
		1	38	20.64	20.60	20.65	21.50
		1	74	20.61	20.46	20.19	21.50
		36	0	19.51	19.67	19.28	20.50
		36	18	19.63	19.46	19.27	20.50
		36	39	19.37	19.48	19.17	20.50
		75	0	19.42	19.47	19.09	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.20	23.67	23.28	24.50
		1	50	23.55	23.57	23.32	24.50
		1	99	23.63	23.30	23.37	24.50
		50	0	22.48	22.69	22.38	23.50
		50	25	22.59	22.57	22.43	23.50
		50	50	22.68	22.46	22.38	23.50
		100	0	22.56	22.58	22.39	23.50
	16QAM	1	0	22.57	22.92	22.52	23.50
		1	50	22.89	22.84	22.63	23.50
		1	99	22.92	22.59	22.74	23.50
		50	0	21.44	21.66	21.39	22.50
		50	25	21.57	21.56	21.45	22.50
		50	50	21.65	21.43	21.39	22.50
		100	0	21.53	21.54	21.36	22.50
	64QAM	1	0	21.32	21.91	21.50	22.50
		1	50	21.73	21.83	21.64	22.50
		1	99	21.80	21.51	21.46	22.50

		50	0	20.44	20.64	20.37	21.50
		50	25	20.56	20.53	20.44	21.50
		50	50	20.64	20.43	20.32	21.50
		100	0	20.51	20.54	20.36	21.50
	256QAM	1	0	20.21	20.94	20.41	21.50
		1	50	20.74	20.78	20.49	21.50
		1	99	20.61	20.52	20.25	21.50
		50	0	19.51	19.65	19.44	20.50
		50	25	19.59	19.60	19.47	20.50
		50	50	19.53	19.28	19.41	20.50
		100	0	19.50	19.37	19.35	20.50

LTE B66							
Receiver off--Main Ant2				Maximum Output Power (dBm)			23.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	22.05	22.44	22.33	23.50
		1	2	22.02	22.42	22.29	23.50
		1	5	22.06	22.40	22.33	23.50
		3	0	22.01	22.41	22.29	23.50
		3	2	22.01	22.42	22.32	23.50
		3	3	22.02	22.39	22.32	23.50
		6	0	22.07	22.42	22.33	23.50
	16QAM	1	0	22.28	22.69	22.64	23.50
		1	2	22.35	22.69	22.61	23.50
		1	5	22.34	22.66	22.57	23.50
		3	0	22.04	22.39	22.35	23.50
		3	2	22.06	22.35	22.32	23.50
		3	3	22.11	22.36	22.30	23.50
		6	0	21.15	21.48	21.40	22.50
	64QAM	1	0	21.30	21.59	21.50	22.50
		1	2	21.30	21.53	21.46	22.50
		1	5	21.23	21.56	21.48	22.50
		3	0	21.18	21.54	21.48	22.50
		3	2	21.18	21.56	21.43	22.50
		3	3	21.17	21.51	21.45	22.50
		6	0	20.05	20.40	20.30	21.50
	256QAM	1	0	20.38	20.74	20.07	21.50
		1	2	20.76	20.64	20.31	21.50
		1	5	20.45	20.28	20.03	21.50
		3	0	20.49	20.13	20.04	21.50
		3	2	20.13	19.94	20.21	21.50
		3	3	19.99	19.90	20.17	21.50

		6	0	19.22	19.43	19.05	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	22.07	22.41	22.32	23.50
		1	7	22.11	22.40	22.29	23.50
		1	14	22.13	22.36	22.29	23.50
		8	0	22.12	22.40	22.36	23.50
		8	4	22.11	22.42	22.32	23.50
		8	7	22.17	22.44	22.34	23.50
		15	0	22.15	22.43	22.32	23.50
	16QAM	1	0	22.28	22.68	22.65	23.50
		1	7	22.34	22.61	22.67	23.50
		1	14	22.40	22.64	22.60	23.50
		8	0	21.18	21.49	21.39	22.50
		8	4	21.19	21.46	21.42	22.50
		8	7	21.23	21.50	21.40	22.50
		15	0	21.13	21.44	21.33	22.50
	64QAM	1	0	21.31	21.57	21.49	22.50
		1	7	21.32	21.50	21.46	22.50
		1	14	21.41	21.48	21.51	22.50
		8	0	20.17	20.49	20.38	21.50
		8	4	20.15	20.47	20.35	21.50
		8	7	20.20	20.49	20.39	21.50
		15	0	20.10	20.40	20.31	21.50
	256QAM	1	0	20.42	20.60	20.15	21.50
		1	7	20.46	20.42	20.27	21.50
		1	14	20.69	20.26	20.01	21.50
		8	0	19.19	19.39	18.86	20.50
		8	4	19.17	18.82	19.03	20.50
		8	7	19.09	18.78	19.33	20.50
		15	0	19.40	19.31	18.95	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	22.14	22.46	22.33	23.50
		1	13	22.20	22.45	22.32	23.50
		1	24	22.28	22.40	22.34	23.50
		12	0	22.19	22.51	22.43	23.50
		12	6	22.23	22.47	22.38	23.50
		12	13	22.25	22.47	22.37	23.50
		25	0	22.25	22.51	22.39	23.50
	16QAM	1	0	22.44	22.80	22.64	23.50
		1	13	22.57	22.74	22.61	23.50
		1	24	22.62	22.71	22.66	23.50

		12	0	21.21	21.55	21.44	22.50
		12	6	21.25	21.48	21.37	22.50
		12	13	21.26	21.49	21.39	22.50
		25	0	21.23	21.49	21.37	22.50
	64QAM	1	0	21.28	21.66	21.47	22.50
		1	13	21.43	21.64	21.41	22.50
		1	24	21.47	21.60	21.51	22.50
		12	0	20.24	20.55	20.44	21.50
		12	6	20.27	20.51	20.40	21.50
		12	13	20.29	20.51	20.38	21.50
		25	0	20.23	20.47	20.38	21.50
	256QAM	1	0	20.40	20.66	20.21	21.50
		1	13	20.74	20.46	20.17	21.50
		1	24	20.51	20.32	19.99	21.50
		12	0	19.51	19.45	19.08	20.50
		12	6	19.15	19.20	19.11	20.50
		12	13	19.27	18.96	19.33	20.50
		25	0	19.26	19.53	19.23	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.19	22.56	22.37	23.50
		1	25	22.23	22.44	22.31	23.50
		1	49	22.44	22.40	22.40	23.50
		25	0	22.24	22.50	22.38	23.50
		25	13	22.28	22.45	22.35	23.50
		25	25	22.36	22.40	22.34	23.50
		50	0	22.30	22.45	22.37	23.50
	16QAM	1	0	22.53	22.78	22.64	23.50
		1	25	22.61	22.69	22.58	23.50
		1	49	22.70	22.70	22.71	23.50
		25	0	21.22	21.48	21.38	22.50
		25	13	21.25	21.42	21.34	22.50
		25	25	21.38	21.40	21.31	22.50
		50	0	21.30	21.44	21.36	22.50
	64QAM	1	0	21.30	21.61	21.59	22.50
		1	25	21.34	21.51	21.46	22.50
		1	49	21.54	21.44	21.52	22.50
		25	0	20.23	20.49	20.38	21.50
		25	13	20.26	20.44	20.33	21.50
		25	25	20.37	20.39	20.33	21.50
		50	0	20.27	20.42	20.36	21.50
	256QAM	1	0	20.36	20.62	20.07	21.50
		1	25	20.56	20.48	20.17	21.50

		1	49	20.55	20.32	19.99	21.50
		25	0	19.39	19.19	19.14	20.50
		25	13	19.21	19.04	19.29	20.50
		25	25	19.35	19.02	19.21	20.50
		50	0	19.22	19.39	19.09	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	22.23	22.57	22.29	23.50
		1	38	22.45	22.54	22.34	23.50
		1	74	22.52	22.33	22.37	23.50
		36	0	22.34	22.55	22.36	23.50
		36	18	22.43	22.51	22.37	23.50
		36	39	22.48	22.39	22.38	23.50
		75	0	22.43	22.50	22.35	23.50
	16QAM	1	0	22.52	22.86	22.57	23.50
		1	38	22.67	22.81	22.62	23.50
		1	74	22.77	22.56	22.71	23.50
		36	0	21.34	21.57	21.37	22.50
		36	18	21.45	21.52	21.35	22.50
		36	39	21.49	21.41	21.40	22.50
		75	0	21.46	21.52	21.36	22.50
	64QAM	1	0	21.45	21.72	21.47	22.50
		1	38	21.68	21.75	21.53	22.50
		1	74	21.77	21.52	21.55	22.50
		36	0	20.35	20.58	20.39	21.50
		36	18	20.44	20.54	20.39	21.50
		36	39	20.49	20.42	20.40	21.50
		75	0	20.40	20.49	20.35	21.50
	256QAM	1	0	20.46	20.62	20.35	21.50
		1	38	20.54	20.58	19.95	21.50
		1	74	20.33	20.22	19.97	21.50
		36	0	19.33	19.55	19.00	20.50
		36	18	19.33	19.00	19.19	20.50
		36	39	19.21	19.18	19.23	20.50
		75	0	19.22	19.33	19.27	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.22	22.66	22.30	23.50
		1	50	22.50	22.56	22.38	23.50
		1	99	22.60	22.28	22.43	23.50
		50	0	22.45	22.65	22.38	23.50
		50	25	22.59	22.54	22.43	23.50
		50	50	22.65	22.42	22.38	23.50

		100	0	22.53	22.53	22.38	23.50
	16QAM	1	0	22.61	22.97	22.61	23.50
		1	50	22.81	22.84	22.69	23.50
		1	99	22.87	22.54	22.70	23.50
		50	0	21.43	21.64	21.36	22.50
		50	25	21.55	21.53	21.44	22.50
		50	50	21.65	21.41	21.37	22.50
		100	0	21.53	21.52	21.35	22.50
	64QAM	1	0	21.23	21.80	21.48	22.50
		1	50	21.63	21.75	21.59	22.50
		1	99	21.63	21.38	21.60	22.50
		50	0	20.42	20.64	20.35	21.50
		50	25	20.53	20.54	20.42	21.50
		50	50	20.65	20.42	20.35	21.50
		100	0	20.49	20.52	20.36	21.50
	256QAM	1	0	20.26	20.74	20.33	21.50
		1	50	20.76	20.40	20.11	21.50
		1	99	20.65	20.32	19.85	21.50
		50	0	19.31	19.35	19.04	20.50
		50	25	19.07	19.18	19.27	20.50
		50	50	19.25	19.18	19.31	20.50
		100	0	19.38	19.33	19.21	20.50

LTE B66							
Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	19.40	19.37	19.24	20.50
		1	2	19.24	19.33	19.24	20.50
		1	5	19.15	19.33	19.23	20.50
		3	0	19.11	19.32	19.23	20.50
		3	2	19.25	19.32	19.15	20.50
		3	3	19.35	19.30	19.21	20.50
		6	0	19.36	19.36	19.24	20.50
	16QAM	1	0	19.24	19.76	19.62	20.50
		1	2	19.30	19.71	19.67	20.50
		1	5	19.29	19.70	19.60	20.50
		3	0	18.90	19.37	19.23	20.50
		3	2	18.96	19.33	19.15	20.50
		3	3	18.92	19.33	19.14	20.50
		6	0	19.02	19.42	19.30	20.50
	64QAM	1	0	19.06	19.53	19.40	20.50
		1	2	19.11	19.49	19.31	20.50

		1	5	19.24	19.57	19.33	20.50
		3	0	19.06	19.46	19.39	20.50
		3	2	19.07	19.47	19.40	20.50
		3	3	19.08	19.47	19.38	20.50
		6	0	18.92	19.35	19.24	20.50
	256QAM	1	0	19.67	20.15	19.90	20.50
		1	2	19.69	20.03	19.39	20.50
		1	5	20.19	19.71	20.04	20.50
		3	0	19.47	20.00	19.45	20.50
		3	2	19.25	19.56	19.34	20.50
		3	3	19.50	19.05	19.70	20.50
		6	0	19.52	19.62	19.11	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.96	19.36	19.23	20.50
		1	7	18.96	19.33	19.17	20.50
		1	14	19.01	19.31	19.22	20.50
		8	0	18.99	19.37	19.26	20.50
		8	4	18.99	19.36	19.21	20.50
		8	7	19.07	19.36	19.22	20.50
		15	0	19.03	19.39	19.24	20.50
	16QAM	1	0	19.29	19.64	19.53	20.50
		1	7	19.39	19.60	19.54	20.50
		1	14	19.39	19.67	19.47	20.50
		8	0	19.04	19.40	19.31	20.50
		8	4	19.05	19.40	19.31	20.50
		8	7	19.13	19.40	19.27	20.50
		15	0	19.01	19.35	19.21	20.50
	64QAM	1	0	19.17	19.51	19.45	20.50
		1	7	19.17	19.49	19.37	20.50
		1	14	19.23	19.51	19.36	20.50
		8	0	19.05	19.40	19.31	20.50
		8	4	19.03	19.40	19.22	20.50
		8	7	19.11	19.40	19.27	20.50
		15	0	18.99	19.33	19.22	20.50
	256QAM	1	0	19.77	19.97	19.80	20.50
		1	7	19.91	20.07	19.83	20.50
		1	14	19.85	19.55	19.46	20.50
		8	0	19.67	19.58	19.41	20.50
		8	4	19.65	19.44	19.64	20.50
		8	7	20.04	19.77	19.30	20.50
		15	0	19.56	19.48	19.37	20.50
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	19.05	19.44	19.28	20.50
		1	13	19.10	19.42	19.26	20.50
		1	24	19.22	19.35	19.24	20.50
		12	0	19.10	19.44	19.31	20.50
		12	6	19.13	19.39	19.29	20.50
		12	13	19.12	19.38	19.24	20.50
		25	0	19.13	19.42	19.31	20.50
	16QAM	1	0	19.35	19.73	19.64	20.50
		1	13	19.46	19.74	19.58	20.50
		1	24	19.53	19.72	19.62	20.50
		12	0	19.12	19.49	19.33	20.50
		12	6	19.14	19.42	19.30	20.50
		12	13	19.15	19.39	19.27	20.50
		25	0	19.15	19.42	19.28	20.50
	64QAM	1	0	19.26	19.65	19.45	20.50
		1	13	19.30	19.60	19.40	20.50
		1	24	19.36	19.61	19.42	20.50
		12	0	19.13	19.48	19.36	20.50
		12	6	19.17	19.42	19.31	20.50
		12	13	19.19	19.42	19.31	20.50
		25	0	19.11	19.40	19.31	20.50
	256QAM	1	0	19.61	20.01	19.50	20.50
		1	13	19.67	19.81	19.59	20.50
		1	24	19.73	19.71	19.64	20.50
		12	0	19.41	19.74	19.53	20.50
		12	6	19.53	19.52	19.48	20.50
		12	13	19.78	19.47	19.32	20.50
		25	0	19.66	19.50	19.45	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
10MHz	QPSK			132022/1715	132322/1745	132622/1775	
		1	0	19.11	19.53	19.32	20.50
		1	25	19.17	19.42	19.28	20.50
		1	49	19.36	19.35	19.36	20.50
		25	0	19.15	19.45	19.33	20.50
		25	13	19.17	19.39	19.27	20.50
		25	25	19.29	19.33	19.24	20.50
		50	0	19.22	19.37	19.29	20.50
	16QAM	1	0	19.49	19.89	19.65	20.50
		1	25	19.58	19.79	19.61	20.50
		1	49	19.79	19.80	19.64	20.50
		25	0	19.14	19.42	19.32	20.50
		25	13	19.15	19.36	19.24	20.50

		25	25	19.26	19.31	19.22	20.50
		50	0	19.17	19.37	19.29	20.50
	64QAM	1	0	19.31	19.63	19.48	20.50
		1	25	19.32	19.51	19.42	20.50
		1	49	19.53	19.48	19.49	20.50
		25	0	19.15	19.44	19.31	20.50
		25	13	19.17	19.37	19.24	20.50
		25	25	19.24	19.33	19.23	20.50
		50	0	19.19	19.35	19.29	20.50
		1	0	19.65	19.87	19.52	20.50
	256QAM	1	25	19.69	19.71	19.67	20.50
		1	49	19.69	19.45	19.66	20.50
		25	0	19.51	19.80	19.31	20.50
		25	13	19.63	19.44	19.46	20.50
		25	25	19.60	19.53	19.34	20.50
		50	0	19.48	19.54	19.37	20.50
		1	0	19.65	19.87	19.52	20.50
		1	25	19.69	19.71	19.67	20.50
		1	49	19.69	19.45	19.66	20.50
		25	0	19.51	19.80	19.31	20.50
		25	13	19.63	19.44	19.46	20.50
		25	25	19.60	19.53	19.34	20.50
		50	0	19.48	19.54	19.37	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	19.17	19.55	19.26	20.50
		1	38	19.37	19.46	19.32	20.50
		1	74	19.48	19.24	19.33	20.50
		36	0	19.26	19.49	19.28	20.50
		36	18	19.33	19.42	19.29	20.50
		36	39	19.40	19.32	19.29	20.50
		75	0	19.35	19.44	19.29	20.50
		1	0	19.39	19.92	19.54	20.50
	16QAM	1	38	19.69	19.90	19.57	20.50
		1	74	19.72	19.62	19.65	20.50
		36	0	19.22	19.49	19.32	20.50
		36	18	19.31	19.44	19.30	20.50
		36	39	19.39	19.36	19.31	20.50
		75	0	19.36	19.46	19.29	20.50
		1	0	19.33	19.76	19.31	20.50
		1	38	19.63	19.71	19.47	20.50
	64QAM	1	74	19.67	19.42	19.49	20.50
		36	0	19.27	19.54	19.33	20.50
		36	18	19.36	19.48	19.33	20.50
		36	39	19.44	19.37	19.31	20.50
		75	0	19.35	19.42	19.28	20.50
		1	0	19.65	20.13	19.68	20.50
		1	38	19.77	19.95	19.89	20.50
		1	74	19.87	19.75	19.50	20.50
		36	0	19.51	19.56	19.55	20.50

		36	18	19.51	19.74	19.58	20.50
		36	39	19.72	19.67	19.34	20.50
		75	0	19.64	19.70	19.31	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	19.17	19.62	19.24	20.50
		1	50	19.47	19.55	19.36	20.50
		1	99	19.57	19.22	19.33	20.50
		50	0	19.37	19.63	19.31	20.50
		50	25	19.48	19.49	19.38	20.50
		50	50	19.58	19.38	19.29	20.50
		100	0	19.46	19.49	19.32	20.50
	16QAM	1	0	19.61	19.87	19.54	20.50
		1	50	19.83	19.87	19.70	20.50
		1	99	19.88	19.45	19.67	20.50
		50	0	19.35	19.58	19.31	20.50
		50	25	19.45	19.48	19.36	20.50
		50	50	19.57	19.36	19.32	20.50
		100	0	19.42	19.47	19.29	20.50
	64QAM	1	0	19.37	19.85	19.46	20.50
		1	50	19.65	19.77	19.57	20.50
		1	99	19.69	19.49	19.56	20.50
		50	0	19.33	19.58	19.31	20.50
		50	25	19.45	19.48	19.38	20.50
		50	50	19.58	19.35	19.30	20.50
		100	0	19.42	19.48	19.29	20.50
	256QAM	1	0	19.49	19.89	19.72	20.50
		1	50	19.83	19.99	19.87	20.50
		1	99	19.69	19.59	19.74	20.50
		50	0	19.63	19.78	19.37	20.50
		50	25	19.73	19.64	19.56	20.50
		50	50	19.62	19.49	19.44	20.50
		100	0	19.46	19.62	19.35	20.50

LTE B66							
Hotspot on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.22	21.41	21.22	22.50
		1	2	21.19	21.37	21.20	22.50
		1	5	21.25	21.36	21.21	22.50
		3	0	21.18	21.37	21.20	22.50
		3	2	21.19	21.32	21.20	22.50

		3	3	21.20	21.32	21.21	22.50
		6	0	21.24	21.34	21.22	22.50
	16QAM	1	0	21.57	21.67	21.50	22.50
		1	2	21.46	21.63	21.49	22.50
		1	5	21.48	21.62	21.57	22.50
		3	0	21.18	21.30	21.21	22.50
		3	2	21.23	21.29	21.22	22.50
		3	3	21.21	21.31	21.23	22.50
		6	0	21.32	21.44	21.29	22.50
		1	0	21.47	21.57	21.38	22.50
	64QAM	1	2	21.42	21.56	21.43	22.50
		1	5	21.52	21.49	21.35	22.50
		3	0	21.34	21.50	21.30	22.50
		3	2	21.39	21.51	21.37	22.50
		3	3	21.32	21.47	21.37	22.50
		6	0	20.23	20.34	20.21	21.50
		1	0	20.25	20.44	20.30	21.50
		1	2	20.32	20.49	20.28	21.50
	256QAM	1	5	20.25	20.43	20.18	21.50
		3	0	20.46	20.30	20.17	21.50
		3	2	20.22	20.31	20.18	21.50
		3	3	20.44	20.21	20.34	21.50
		6	0	19.37	19.34	19.44	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.23	21.38	21.16	22.50
		1	7	21.23	21.35	21.17	22.50
		1	14	21.29	21.30	21.20	22.50
		8	0	21.28	21.36	21.23	22.50
		8	4	21.28	21.37	21.21	22.50
		8	7	21.33	21.35	21.27	22.50
		15	0	21.34	21.38	21.22	22.50
	16QAM	1	0	21.53	21.66	21.43	22.50
		1	7	21.52	21.71	21.54	22.50
		1	14	21.59	21.70	21.56	22.50
		8	0	21.34	21.46	21.30	22.50
		8	4	21.33	21.42	21.29	22.50
		8	7	21.38	21.44	21.30	22.50
		15	0	21.33	21.40	21.24	22.50
	64QAM	1	0	21.48	21.60	21.38	22.50
		1	7	21.51	21.49	21.30	22.50
		1	14	21.49	21.52	21.43	22.50
		8	0	20.32	20.45	20.30	21.50

		8	4	20.34	20.39	20.26	21.50
		8	7	20.37	20.41	20.28	21.50
		15	0	20.29	20.35	20.20	21.50
	256QAM	1	0	20.59	20.62	20.58	21.50
		1	7	20.30	20.29	19.90	21.50
		1	14	20.49	20.21	19.98	21.50
		8	0	19.06	19.58	19.35	20.50
		8	4	19.38	19.39	19.08	20.50
		8	7	19.24	19.19	19.32	20.50
		15	0	19.33	19.26	19.32	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.33	21.47	21.20	22.50
		1	13	21.33	21.38	21.20	22.50
		1	24	21.42	21.32	21.25	22.50
		12	0	21.38	21.47	21.29	22.50
		12	6	21.36	21.41	21.25	22.50
		12	13	21.40	21.38	21.27	22.50
		25	0	21.42	21.47	21.26	22.50
	16QAM	1	0	21.75	21.74	21.49	22.50
		1	13	21.70	21.78	21.56	22.50
		1	24	21.66	21.62	21.60	22.50
		12	0	21.41	21.52	21.31	22.50
		12	6	21.40	21.41	21.31	22.50
		12	13	21.41	21.44	21.28	22.50
		25	0	21.37	21.44	21.27	22.50
	64QAM	1	0	21.48	21.69	21.40	22.50
		1	13	21.53	21.61	21.40	22.50
		1	24	21.63	21.52	21.51	22.50
		12	0	20.42	20.54	20.32	21.50
		12	6	20.43	20.45	20.32	21.50
		12	13	20.42	20.42	20.30	21.50
		25	0	20.37	20.46	20.23	21.50
	256QAM	1	0	20.49	20.62	20.46	21.50
		1	13	20.46	20.55	20.20	21.50
		1	24	20.51	20.59	19.86	21.50
		12	0	19.40	19.52	19.09	20.50
		12	6	19.24	19.39	19.42	20.50
		12	13	19.36	19.33	19.56	20.50
		25	0	19.47	19.36	19.36	20.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.37	21.56	21.23	22.50
		1	25	21.41	21.41	21.16	22.50
		1	49	21.56	21.28	21.33	22.50
		25	0	21.44	21.50	21.28	22.50
		25	13	21.47	21.42	21.24	22.50
		25	25	21.51	21.36	21.23	22.50
		50	0	21.46	21.42	21.24	22.50
	16QAM	1	0	21.79	21.85	21.56	22.50
		1	25	21.88	21.76	21.55	22.50
		1	49	22.04	21.62	21.66	22.50
		25	0	21.40	21.51	21.29	22.50
		25	13	21.44	21.41	21.23	22.50
		25	25	21.51	21.32	21.22	22.50
		50	0	21.46	21.42	21.25	22.50
	64QAM	1	0	21.51	21.66	21.32	22.50
		1	25	21.68	21.57	21.32	22.50
		1	49	21.70	21.43	21.58	22.50
		25	0	20.42	20.49	20.23	21.50
		25	13	20.44	20.42	20.20	21.50
		25	25	20.53	20.32	20.22	21.50
		50	0	20.44	20.39	20.21	21.50
	256QAM	1	0	20.25	20.60	20.24	21.50
		1	25	20.46	20.45	20.18	21.50
		1	49	20.31	20.39	19.88	21.50
		25	0	19.38	19.54	19.03	20.50
		25	13	19.00	19.17	19.42	20.50
		25	25	19.32	19.09	19.50	20.50
		50	0	19.41	19.54	19.38	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.43	21.70	21.22	22.50
		1	38	21.52	21.49	21.21	22.50
		1	74	21.69	21.27	21.34	22.50
		36	0	21.42	21.55	21.22	22.50
		36	18	21.48	21.41	21.20	22.50
		36	39	21.59	21.31	21.21	22.50
		75	0	21.54	21.43	21.21	22.50
	16QAM	1	0	21.73	21.90	21.47	22.50
		1	38	21.77	21.76	21.42	22.50
		1	74	21.95	21.44	21.61	22.50
		36	0	21.42	21.54	21.23	22.50

		36	18	21.52	21.44	21.19	22.50
		36	39	21.61	21.31	21.22	22.50
		75	0	21.55	21.44	21.21	22.50
	64QAM	1	0	21.55	21.91	21.40	22.50
		1	38	21.59	21.71	21.43	22.50
		1	74	21.77	21.46	21.48	22.50
		36	0	20.44	20.56	20.23	21.50
		36	18	20.50	20.44	20.21	21.50
		36	39	20.62	20.32	20.23	21.50
		75	0	20.53	20.42	20.17	21.50
	256QAM	1	0	20.41	20.42	20.64	21.50
		1	38	20.60	20.71	20.36	21.50
		1	74	20.31	20.63	19.88	21.50
		36	0	19.56	19.54	19.31	20.50
		36	18	19.32	19.47	19.50	20.50
		36	39	19.24	19.49	19.56	20.50
		75	0	19.55	19.64	19.48	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.41	21.74	21.17	22.50
		1	50	21.59	21.46	21.26	22.50
		1	99	21.73	21.19	21.36	22.50
		50	0	21.57	21.62	21.23	22.50
		50	25	21.64	21.45	21.23	22.50
		50	50	21.76	21.33	21.23	22.50
		100	0	21.64	21.48	21.21	22.50
	16QAM	1	0	21.83	21.98	21.45	22.50
		1	50	21.88	21.81	21.57	22.50
		1	99	21.95	21.53	21.75	22.50
		50	0	21.56	21.60	21.23	22.50
		50	25	21.64	21.44	21.24	22.50
		50	50	21.74	21.33	21.21	22.50
		100	0	21.62	21.45	21.20	22.50
	64QAM	1	0	21.51	21.93	21.31	22.50
		1	50	21.79	21.57	21.29	22.50
		1	99	21.79	21.21	21.40	22.50
		50	0	20.52	20.59	20.21	21.50
		50	25	20.61	20.44	20.21	21.50
		50	50	20.72	20.34	20.20	21.50
		100	0	20.63	20.47	20.20	21.50
	256QAM	1	0	20.51	20.62	20.52	21.50
		1	50	20.40	20.45	20.12	21.50
		1	99	20.51	20.39	20.06	21.50

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		50	0	19.30	19.60	19.29	20.50
		50	25	19.22	19.25	19.28	20.50
		50	50	19.42	19.17	19.40	20.50
		100	0	19.43	19.46	19.20	20.50

9.4 CA Mode

9.4.1 UL CA

CA Combination	Test Scenario	Modulation	PCC							SCC						output power	
			PCC Band	PCC Bandwidth (MHz)	PCC UL RB size	PCC UL RB offset	PCC UL Channel	f _{UL} [MHz]	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC UL Channel	f _{UL} [MHz]	SCC UL RB size	SCC UL RB offset	conducted power (dbm)	Tune up (dbm)
CA_48C ANT2 MAIN	Normal power	QPSK	48	20	1	99	56340	3660	56340	48	20	56538	3679.8	1	0	23.15	24.5
		QPSK	48	20	1	99	56490	3675	56490	48	20	56688	3694.8	1	0	23.06	24.5
		QPSK	48	20	1	0	56640	3690	56640	48	20	56442	3670.2	1	99	23.11	24.5
	Receiver on	QPSK	48	20	1	99	56340	3660	56340	48	20	56538	3679.8	1	0	19.12	20.5
		QPSK	48	20	1	99	56490	3675	56490	48	20	56688	3694.8	1	0	19.10	20.5
		QPSK	48	20	1	0	56640	3690	56640	48	20	56442	3670.2	1	99	18.95	20.5
	Receiver off	QPSK	48	20	1	99	56340	3660	56340	48	20	56538	3679.8	1	0	22.32	23.5
		QPSK	48	20	1	99	56490	3675	56490	48	20	56688	3694.8	1	0	22.18	23.5
		QPSK	48	20	1	0	56640	3690	56640	48	20	56442	3670.2	1	99	22.24	23.5
	Hotspot on	QPSK	48	20	1	99	56340	3660	56340	48	20	56538	3679.8	1	0	21.29	22.5
		QPSK	48	20	1	99	56490	3675	56490	48	20	56688	3694.8	1	0	21.25	22.5
		QPSK	48	20	1	0	56640	3690	56640	48	20	56442	3670.2	1	99	21.28	22.5

9.4.2 DL CA

DL Intra Band Contiguous Measured Results													
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA	CA	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)			Inactive (dBm)	Active (dBm)	
CA_2C	QPSK	20	18801	1870.1	1,50	20	999	1969.9	40	0	23.19	23.19	0
CA_7C	QPSK	20	21001	2525.1	1,0	20	3199	2664.9	40	0	23.22	23.25	-0.03
CA_7B	QPSK	15	21001	2525.1	1,0	5	3199	2664.9	20	0	23.22	23.22	0
CA_48C	QPSK	20	56391	3665.1	1,0	20	56589	3684.9	40	0	23.16	23.16	0
CA_48B	QPSK	15	56391	3665.1	1,0	5	56589	3684.9	20	0	23.15	23.16	-0.01
CA_n5B	QPSK	10	166800	834	1,1	5	175898	879.49	15	0	22.51	22.53	-0.02
CA_n66B	QPSK	15	346000	1730	1,1	5	426098	2130.49	20	0	22.58	22.58	0
CA_n48B	QPSK	15	640000	3600	1,1	5	640098	3601.47	20	0	22.63	22.63	0
CA_n77C	QPSK	15	650000	3750	1,1	5	650098	3751.47	20	0	23.05	23.07	-0.02
DL Intra Band Non-Contiguous Measured Results													
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA	CA	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)			Inactive (dBm)	Active (dBm)	
CA_2A-2A	QPSK	20	18700	1860	1,50	20	1100	1980	40	0	23.19	23.19	0
CA_4A-4A	QPSK	20	20050	1720	1,50	20	2300	2145	40	0	22.74	22.74	0
CA_7A-7A	QPSK	20	20850	2510	1,0	20	3350	2680	40	0	23.22	23.25	-0.03

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CA_66A-66A	QPSK	20	132072	1720	1,50	20	67035	2169.9	40	0	23.48	23.48	0
CA_48A-48A	QPSK	20	56340	3660	1,0	20	56640	3690	40	0	23.15	23.16	-0.01
CA_n2_n2	QPSK	20	374000	1870	1,1	20	394000	1970	40	0	22.42	22.42	0
CA_n66_n66	QPSK	20	346000	1730	1,1	20	432000	2160	40	0	22.58	22.58	0
CA_n48_n48	QPSK	20	640000	3600	1,1	20	643332	3649.98	40	0	22.63	22.63	0
DL Inter Band(2 Bands)Measured Results													
CA configuration	Modle	CC1 UL				CC2 DL			Aggregated BW	MPR	CA		Delta
		BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)			Inactive (dBm)	Active (dBm)	
CA_2A-4A	QPSK	20	18900	1880	1,0	20	2175	2132.5	40	0	22.75	22.75	0
CA_2A-5A	QPSK	20	18900	1880	1,0	10	2600	889	30	0	23.19	23.19	0
CA_2A-7A	QPSK	20	18900	1880	1,0	20	3350	2680	40	0	23.18	23.19	-0.01
CA_2A-13A	QPSK	20	18900	1880	1,0	10	5230	751	30	0	23.17	23.19	-0.02
CA_2A-66A	QPSK	20	18900	1880	1,0	20	66786	2145	40	0	22.71	22.75	-0.04
CA_2A-48A	QPSK	20	18900	1880	1,0	20	56640	3690	40	0	22.75	22.75	0
CA_4A-5A	QPSK	20	20175	1732.5	1,50	10	2525	881.5	30	0	22.74	22.74	0
CA_4A-13A	QPSK	20	20175	1732.5	1,50	10	5230	751	30	0	22.74	22.74	0
CA_4A-48A	QPSK	20	20175	1732.5	1,50	20	56640	3690	40	0	22.69	22.74	-0.05
CA_5A-66A	QPSK	10	20525	836.5	1,0	20	66786	2145	30	0	24.28	24.28	0
CA_5A-48A	QPSK	10	20525	836.5	1,0	20	56640	3690	30	0	24.28	24.28	0
CA_7A-13A	QPSK	20	21100	2535	1,0	10	5230	751	30	0	23.25	23.25	0
CA_7A-66A	QPSK	20	21100	2535	1,0	20	66786	2145	40	0	23.23	23.25	-0.02
CA_13A-66A	QPSK	10	23230	782	1,0	20	66786	2145	30	0	24.12	24.12	0
CA_13A-48A	QPSK	10	23230	782	1,0	20	56640	3690	30	0	24.11	24.12	-0.01
CA_48A-66A	QPSK	20	56490	3675	1,0	20	66786	1745	40	0	23.16	23.16	0
CA_n2A-n5A	QPSK	20	376000	1880	1,1	10	176800	884	30	0	22.42	22.42	0
CA_n2A-n48A	QPSK	20	376000	1880	1,1	20	643332	3649.98	40	0	22.22	22.22	0
CA_n2A-n66A	QPSK	20	376000	1880	1,1	20	432000	2160	40	0	22.20	22.22	-0.02
CA_n2A-n77A	QPSK	20	376000	1880	1,1	20	662000	3930	40	0	22.21	22.22	-0.01
CA_n5A-n48A	QPSK	10	167300	836.5	1,1	20	643332	3649.98	30	0	22.50	22.53	-0.03
CA_n5A-n66A	QPSK	10	167300	836.5	1,1	20	432000	2160	30	0	22.53	22.53	0
CA_n5A-n77A	QPSK	10	167300	836.5	1,1	20	662000	3930	30	0	22.52	22.53	-0.01
CA_n48A-n66A	QPSK	20	641666	3624.99	1,1	20	432000	2160	40	0	22.63	22.63	0
CA_n48A-n77A	QPSK	20	641666	3624.99	1,1	20	662000	3930	40	0	22.63	22.63	0
CA_n66A-n77A	QPSK	20	349000	1745	1,1	20	662000	3930	40	0	22.61	22.61	0

9.5 NR 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 <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> 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 <i>powerBoostPi2BPSK</i> 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

EN-DC Configurations	Band	Antenna Configurations
DC_2A_n2A	LTE B2	Ant.1
	n 2	Ant.2
DC_5A_n2A	LTE B5	Ant.0
	n 2	Ant.2
DC_13A_n2A	LTE B13	Ant.0
	n 2	Ant.2
DC_48A_n2A	LTE B48	Ant.2
	n 2	Ant.1
DC_66A_n2A	LTE B66	Ant.1
	n 2	Ant.2
DC_2A_n5A	LTE B2	Ant.2
	n 5	Ant.0
DC_48A_n5A	LTE B48	Ant.2
	n 5	Ant.0

EN-DC Configurations	Band	Antenna Configurations
DC_66A_n5A	LTE B66	Ant.2
	n 5	Ant.0
DC_2A_n66A	LTE B2	Ant.1
	n 66	Ant.2
DC_5A_n66A	LTE B5	Ant.0
	n 66	Ant.2
DC_7A_n66A	LTE B7	Ant.4
	n 66	Ant.1
DC_13A_n66A	LTE B13	Ant.0
	n 66	Ant.2
DC_48A_n66A	LTE B48	Ant.2
	n 66	Ant.1
DC_66A_n66A	LTE B66	Ant.1
	n 66	Ant.2

EN-DC Configurations	Band	Antenna Configurations
DC_2A_n77A	LTE B2	Ant.1
	n 77	Ant.2
DC_5A_n77A	LTE B5	Ant.0
	n 77	Ant.2
DC_7A_n77A	LTE B7	Ant.4
	n 77	Ant.2
DC_13A_n77A	LTE B13	Ant.0
	n 77	Ant.2
DC_66A_n77A	LTE B66	Ant.1
	n 77	Ant.2
DC_5A_n78A	LTE B5	Ant.0
	n 78	Ant.2
DC_7A_n78A	LTE B7	Ant.4
	n 78	Ant.2

9.5.1 NR (SA & EN-DC)

n2 SA&NSA							
Normal Power&Receiver off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.48	22.78	22.50	24.00
		1	23	22.63	22.46	22.16	24.00
		12	6	22.72	22.78	23.07	24.00
		25	0	22.19	22.04	22.23	23.00
	DFT-s-OFDM QPSK	1	1	22.61	22.56	22.07	24.00
		1	23	22.65	22.33	22.58	24.00
		12	6	22.93	22.42	23.19	24.00
		25	0	21.78	21.68	21.30	23.00
	DFT-s-OFDM 16QAM	1	1	21.36	21.51	21.42	22.50
		12	6	21.66	21.90	21.64	22.50
	DFT-s-OFDM 64QAM	1	1	20.13	20.45	19.97	21.50
		12	6	20.23	20.43	20.54	21.50
	DFT-s-OFDM 256QAM	1	1	18.51	18.30	18.50	19.50
		12	6	18.58	18.06	18.39	19.50
	CP-OFDM QPSK	1	1	21.51	21.46	20.82	22.50
	CP-OFDM 16QAM	1	1	21.15	21.36	20.64	22.00
	CP-OFDM 64QAM	1	1	19.47	19.46	19.10	20.50
	CP-OFDM 256QAM	1	1	16.13	15.88	15.84	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	22.62	22.58	22.44	24.00
		1	50	22.59	22.38	22.16	24.00
		25	12	22.70	22.84	22.99	24.00
		50	0	22.07	22.18	22.13	23.00
	DFT-s-OFDM QPSK	1	1	22.51	22.36	22.25	24.00
		1	50	22.59	22.49	22.44	24.00
		25	12	22.79	22.40	22.99	24.00
		50	0	21.84	21.46	21.48	23.00
	DFT-s-OFDM 16QAM	1	1	21.50	21.29	21.36	22.50
		25	12	21.84	21.70	21.74	22.50
	DFT-s-OFDM 64QAM	1	1	19.91	20.29	19.79	21.50
		25	12	20.19	20.23	20.42	21.50
	DFT-s-OFDM 256QAM	1	1	18.53	18.18	18.40	19.50
		25	12	18.44	18.02	18.55	19.50
	CP-OFDM QPSK	1	1	21.33	21.42	21.00	22.50
	CP-OFDM 16QAM	1	1	21.23	21.26	20.70	22.00

	CP-OFDM 64QAM	1	1	19.65	19.28	19.26	20.50
	CP-OFDM 256QAM	1	1	15.97	15.74	15.92	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.76	22.50	22.36	24.00
		1	77	22.49	22.46	22.30	24.00
		36	18	22.74	22.72	22.85	24.00
		75	0	22.19	22.30	22.05	23.00
	DFT-s-OFDM QPSK	1	1	22.77	22.74	22.35	24.00
		1	77	22.65	22.67	22.38	24.00
		36	18	22.87	22.78	22.77	24.00
		75	0	21.60	21.74	21.70	23.00
	DFT-s-OFDM 16QAM	1	1	21.56	21.49	21.14	22.50
		36	18	21.74	21.74	21.72	22.50
	DFT-s-OFDM 64QAM	1	1	19.97	19.87	19.95	21.50
		36	18	20.27	20.23	20.28	21.50
	DFT-s-OFDM 256QAM	1	1	18.73	18.62	18.52	19.50
		36	18	18.34	18.16	18.45	19.50
	CP-OFDM QPSK	1	1	21.17	21.32	21.06	22.50
	CP-OFDM 16QAM	1	1	20.95	20.92	20.70	22.00
	CP-OFDM 64QAM	1	1	19.73	19.48	19.22	20.50
	CP-OFDM 256QAM	1	1	15.93	15.88	15.86	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	22.40	22.60	22.34	24.00
		1	104	22.37	22.50	22.24	24.00
		50	25	22.62	22.48	22.69	24.00
		100	0	22.09	21.96	21.99	23.00
	DFT-s-OFDM QPSK	1	1	22.59	22.40	22.43	24.00
		1	104	22.59	22.37	22.46	24.00
		50	25	22.67	22.74	22.65	24.00
		100	0	21.54	21.58	21.60	23.00
	DFT-s-OFDM 16QAM	1	1	21.50	21.47	21.14	22.50
		50	25	21.68	21.74	21.76	22.50
	DFT-s-OFDM 64QAM	1	1	20.13	19.79	19.75	21.50
		50	25	20.29	20.13	20.36	21.50
	DFT-s-OFDM 256QAM	1	1	18.43	18.50	18.50	19.50
		50	25	18.16	18.22	18.13	19.50
	CP-OFDM QPSK	1	1	21.27	21.02	20.90	22.50
	CP-OFDM 16QAM	1	1	21.09	20.98	20.70	22.00
	CP-OFDM 64QAM	1	1	19.55	19.16	19.00	20.50
	CP-OFDM 256QAM	1	1	15.83	15.90	15.80	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM BPSK	1	1	22.72	22.72	22.54	24.00
		1	131	22.61	22.78	22.58	24.00
		64	32	22.80	22.48	22.97	24.00
		128	0	22.21	22.02	22.33	23.00
	DFT-s-OFDM QPSK	1	1	22.45	22.40	22.33	24.00
		1	131	22.51	22.79	22.54	24.00
		64	32	22.81	22.72	22.89	24.00
		128	0	21.78	21.86	21.58	23.00
	DFT-s-OFDM 16QAM	1	1	21.38	21.35	21.18	22.50
		64	32	21.94	21.92	21.80	22.50
	DFT-s-OFDM 64QAM	1	1	20.09	19.81	19.81	21.50
		64	32	20.49	20.19	20.46	21.50
	DFT-s-OFDM 256QAM	1	1	18.83	18.54	18.28	19.50
		64	32	18.24	18.06	18.37	19.50
	CP-OFDM QPSK	1	1	21.47	21.24	21.22	22.50
	CP-OFDM 16QAM	1	1	21.13	21.04	20.76	22.00
	CP-OFDM 64QAM	1	1	19.69	19.20	19.20	20.50
	CP-OFDM 256QAM	1	1	15.89	16.12	16.00	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	22.60	22.60	22.46	24.00
		1	158	22.71	22.56	22.48	24.00
		80	40	22.80	22.60	22.93	24.00
		160	0	22.21	22.32	22.09	23.00
	DFT-s-OFDM QPSK	1	1	22.55	22.66	22.37	24.00
		1	158	22.49	22.65	22.56	24.00
		80	40	22.85	22.70	22.89	24.00
		160	0	21.68	21.82	21.58	23.00
	DFT-s-OFDM 16QAM	1	1	21.60	21.39	21.42	22.50
		80	40	21.72	21.90	21.90	22.50
	DFT-s-OFDM 64QAM	1	1	20.09	19.95	19.95	21.50
		80	40	20.21	20.23	20.34	21.50
	DFT-s-OFDM 256QAM	1	1	18.61	18.60	18.50	19.50
		80	40	18.20	18.36	18.43	19.50
	CP-OFDM QPSK	1	1	21.41	21.14	21.14	22.50
	CP-OFDM 16QAM	1	1	21.05	20.98	20.92	22.00
	CP-OFDM 64QAM	1	1	19.77	19.48	19.16	20.50
	CP-OFDM 256QAM	1	1	15.99	15.94	15.90	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	22.60	22.54	22.40	24.00
		1	214	22.55	22.56	22.38	24.00
		108	54	22.66	22.66	22.75	24.00
		216	0	22.13	22.14	22.13	23.00
	DFT-s-OFDM QPSK	1	1	22.61	22.58	22.43	24.00
		1	214	22.57	22.57	22.42	24.00
		108	54	22.71	22.70	22.75	24.00
		216	0	21.64	21.64	21.66	23.00
	DFT-s-OFDM 16QAM	1	1	21.44	21.39	21.24	22.50
		108	54	21.76	21.76	21.82	22.50
	DFT-s-OFDM 64QAM	1	1	20.03	19.97	19.81	21.50
		108	54	20.27	20.31	20.36	21.50
	DFT-s-OFDM 256QAM	1	1	18.61	18.48	18.40	19.50
		108	54	18.18	18.22	18.31	19.50
	CP-OFDM QPSK	1	1	21.27	21.22	21.06	22.50
	CP-OFDM 16QAM	1	1	20.99	20.94	20.80	22.00
	CP-OFDM 64QAM	1	1	19.65	19.34	19.20	20.50
	CP-OFDM 256QAM	1	1	16.03	15.92	15.82	17.50

n2 SA							
Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	18.39	18.25	18.21	20.00
		1	23	18.44	18.74	18.54	20.00
		12	6	18.82	19.08	18.62	20.00
		25	0	18.30	18.60	18.90	20.00
	DFT-s-OFDM QPSK	1	1	19.06	18.79	18.56	20.00
		1	23	18.60	18.55	18.48	20.00
		12	6	18.85	18.22	19.02	20.00
		25	0	18.46	18.29	18.62	20.00
	DFT-s-OFDM 16QAM	1	1	18.24	18.50	18.20	20.00
		12	6	19.01	19.01	18.97	20.00
	DFT-s-OFDM 64QAM	1	1	18.74	18.92	18.48	20.00
		12	6	19.14	19.32	19.30	20.00
	DFT-s-OFDM 256QAM	1	1	18.41	18.85	18.81	20.00
		12	6	18.08	18.54	18.40	20.00
	CP-OFDM QPSK	1	1	19.26	18.40	18.42	20.00
	CP-OFDM 16QAM	1	1	18.59	18.91	19.03	20.00
	CP-OFDM 64QAM	1	1	18.69	18.71	18.21	20.00
	CP-OFDM 256QAM	1	1	15.55	15.72	16.03	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	18.35	18.37	18.25	20.00
		1	50	18.36	18.88	18.34	20.00
		25	12	19.02	18.94	18.70	20.00
		50	0	18.70	18.84	18.90	20.00
	DFT-s-OFDM QPSK	1	1	19.02	18.67	18.30	20.00
		1	50	18.82	18.69	18.54	20.00
		25	12	18.93	18.54	18.94	20.00
		50	0	18.52	18.49	18.64	20.00
	DFT-s-OFDM 16QAM	1	1	18.08	18.22	18.30	20.00
		25	12	18.83	18.89	18.89	20.00
	DFT-s-OFDM 64QAM	1	1	18.84	19.06	18.80	20.00
		25	12	19.32	19.10	19.42	20.00
	DFT-s-OFDM 256QAM	1	1	18.53	19.01	18.53	20.00
		25	12	18.40	18.18	18.44	20.00
	CP-OFDM QPSK	1	1	19.08	18.48	18.36	20.00
	CP-OFDM 16QAM	1	1	18.83	18.95	18.99	20.00
	CP-OFDM 64QAM	1	1	18.67	18.59	18.45	20.00
	CP-OFDM 256QAM	1	1	15.65	15.60	15.83	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	18.31	18.25	18.21	20.00
		1	77	18.44	18.70	18.40	20.00
		36	18	18.98	18.98	18.72	20.00
		75	0	18.62	18.84	18.74	20.00
	DFT-s-OFDM QPSK	1	1	18.84	18.73	18.36	20.00
		1	77	18.72	18.57	18.36	20.00
		36	18	18.77	18.48	18.88	20.00
		75	0	18.64	18.39	18.70	20.00
	DFT-s-OFDM 16QAM	1	1	18.06	18.26	18.12	20.00
		36	18	18.89	18.85	18.97	20.00
	DFT-s-OFDM 64QAM	1	1	18.74	19.02	18.70	20.00
		36	18	19.34	19.18	19.26	20.00
	DFT-s-OFDM 256QAM	1	1	18.41	18.99	18.57	20.00
		36	18	18.22	18.26	18.54	20.00
	CP-OFDM QPSK	1	1	18.98	18.42	18.38	20.00
	CP-OFDM 16QAM	1	1	18.71	18.87	19.01	20.00
	CP-OFDM 64QAM	1	1	18.71	18.71	18.41	20.00
	CP-OFDM 256QAM	1	1	15.65	15.77	15.87	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	18.49	18.57	18.39	20.00
		1	104	18.44	18.44	18.24	20.00
		50	25	18.70	18.84	18.82	20.00
		100	0	18.56	18.68	18.48	20.00
	DFT-s-OFDM QPSK	1	1	18.54	18.69	18.60	20.00
		1	104	18.66	18.69	18.42	20.00
		50	25	18.67	18.82	18.60	20.00
		100	0	18.70	18.71	18.62	20.00
	DFT-s-OFDM 16QAM	1	1	18.56	18.46	18.20	20.00
		50	25	18.77	19.01	18.85	20.00
	DFT-s-OFDM 64QAM	1	1	18.92	18.68	18.86	20.00
		50	25	19.32	19.34	19.34	20.00
	DFT-s-OFDM 256QAM	1	1	18.39	18.55	18.55	20.00
		50	25	18.42	18.52	18.16	20.00
	CP-OFDM QPSK	1	1	18.60	18.68	18.40	20.00
	CP-OFDM 16QAM	1	1	18.99	18.87	19.01	20.00
	CP-OFDM 64QAM	1	1	18.87	18.85	18.89	20.00
	CP-OFDM 256QAM	1	1	15.87	15.75	15.69	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM BPSK	1	1	18.15	18.27	18.49	20.00
		1	131	18.16	18.42	18.40	20.00
		64	32	18.90	18.78	18.80	20.00
		128	0	18.66	18.64	18.58	20.00
	DFT-s-OFDM QPSK	1	1	18.62	18.49	18.30	20.00
		1	131	18.42	18.63	18.32	20.00
		64	32	18.73	18.64	18.58	20.00
		128	0	18.52	18.47	18.70	20.00
	DFT-s-OFDM 16QAM	1	1	18.36	18.22	18.36	20.00
		64	32	18.85	18.83	18.89	20.00
	DFT-s-OFDM 64QAM	1	1	18.82	18.62	18.76	20.00
		64	32	19.46	19.32	19.36	20.00
	DFT-s-OFDM 256QAM	1	1	18.51	18.73	18.25	20.00
		64	32	18.32	18.46	18.16	20.00
	CP-OFDM QPSK	1	1	18.70	18.74	18.38	20.00
	CP-OFDM 16QAM	1	1	18.81	18.81	18.83	20.00
	CP-OFDM 64QAM	1	1	18.63	18.63	18.57	20.00
	CP-OFDM 256QAM	1	1	15.81	15.63	15.75	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	18.19	18.47	18.37	20.00
		1	158	18.38	18.38	18.44	20.00
		80	40	18.98	19.10	18.74	20.00
		160	0	18.66	18.68	18.56	20.00
	DFT-s-OFDM QPSK	1	1	18.68	18.67	18.56	20.00
		1	158	18.68	18.53	18.36	20.00
		80	40	18.63	18.64	18.92	20.00
		160	0	18.64	18.57	18.68	20.00
	DFT-s-OFDM 16QAM	1	1	18.32	18.46	18.26	20.00
		80	40	19.03	19.11	18.79	20.00
	DFT-s-OFDM 64QAM	1	1	18.76	18.94	18.94	20.00
		80	40	19.38	19.24	19.36	20.00
	DFT-s-OFDM 256QAM	1	1	18.47	18.77	18.29	20.00
		80	40	18.48	18.68	18.28	20.00
	CP-OFDM QPSK	1	1	18.66	18.84	18.46	20.00
	CP-OFDM 16QAM	1	1	18.79	19.09	18.83	20.00
	CP-OFDM 64QAM	1	1	18.95	18.65	18.89	20.00
	CP-OFDM 256QAM	1	1	15.87	15.75	15.87	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	18.29	18.39	18.45	20.00
		1	214	18.28	18.36	18.40	20.00
		108	54	18.84	18.94	18.76	20.00
		216	0	18.68	18.80	18.64	20.00
	DFT-s-OFDM QPSK	1	1	18.64	18.61	18.46	20.00
		1	214	18.58	18.59	18.44	20.00
		108	54	18.71	18.72	18.78	20.00
		216	0	18.68	18.67	18.66	20.00
	DFT-s-OFDM 16QAM	1	1	18.34	18.36	18.28	20.00
		108	54	18.87	18.93	18.83	20.00
	DFT-s-OFDM 64QAM	1	1	18.74	18.80	18.84	20.00
		108	54	19.38	19.36	19.32	20.00
	DFT-s-OFDM 256QAM	1	1	18.57	18.67	18.41	20.00
		108	54	18.46	18.58	18.32	20.00
	CP-OFDM QPSK	1	1	18.68	18.70	18.56	20.00
	CP-OFDM 16QAM	1	1	18.79	18.97	18.79	20.00
	CP-OFDM 64QAM	1	1	18.79	18.75	18.71	20.00
	CP-OFDM 256QAM	1	1	15.71	15.67	15.81	17.50

n2 NSA							
Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	16.11	16.07	16.01	17.50
		1	23	16.06	15.74	16.32	17.50
		12	6	16.46	16.20	16.50	17.50
		25	0	16.76	16.74	16.22	17.50
	DFT-s-OFDM QPSK	1	1	16.18	16.37	15.98	17.50
		1	23	16.72	15.85	16.02	17.50
		12	6	16.49	16.50	16.44	17.50
		25	0	16.50	16.39	16.20	17.50
	DFT-s-OFDM 16QAM	1	1	15.64	15.94	15.86	17.50
		12	6	16.49	16.35	16.13	17.50
	DFT-s-OFDM 64QAM	1	1	15.94	16.34	16.40	17.50
		12	6	16.50	16.74	16.70	17.50
	DFT-s-OFDM 256QAM	1	1	16.53	16.45	16.31	17.50
		12	6	15.76	16.16	15.64	17.50
	CP-OFDM QPSK	1	1	16.22	16.16	16.26	17.50
	CP-OFDM 16QAM	1	1	16.29	16.29	16.09	17.50
	CP-OFDM 64QAM	1	1	15.83	16.37	16.19	17.50
	CP-OFDM 256QAM	1	1	15.90	15.56	16.18	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	16.19	16.31	16.07	17.50
		1	50	16.20	15.82	16.52	17.50
		25	12	16.28	16.28	16.34	17.50
		50	0	16.64	16.68	16.32	17.50
	DFT-s-OFDM QPSK	1	1	16.18	16.29	16.00	17.50
		1	50	16.62	15.97	16.06	17.50
		25	12	16.61	16.60	16.66	17.50
		50	0	16.34	16.45	16.18	17.50
	DFT-s-OFDM 16QAM	1	1	15.60	15.82	15.96	17.50
		25	12	16.47	16.53	16.31	17.50
	DFT-s-OFDM 64QAM	1	1	15.98	16.54	16.24	17.50
		25	12	16.70	16.82	16.78	17.50
	DFT-s-OFDM 256QAM	1	1	16.21	16.31	16.01	17.50
		25	12	15.64	16.02	15.70	17.50
	CP-OFDM QPSK	1	1	16.28	16.12	16.26	17.50
	CP-OFDM 16QAM	1	1	16.33	16.17	15.79	17.50
	CP-OFDM 64QAM	1	1	15.83	16.33	15.89	17.50
	CP-OFDM 256QAM	1	1	15.84	15.77	16.02	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	16.25	16.31	16.09	17.50
		1	77	16.04	16.08	16.50	17.50
		36	18	16.52	16.32	16.38	17.50
		75	0	16.66	16.78	16.48	17.50
	DFT-s-OFDM QPSK	1	1	16.28	16.57	16.06	17.50
		1	77	16.48	16.19	16.04	17.50
		36	18	16.67	16.40	16.38	17.50
		75	0	16.06	16.69	16.16	17.50
	DFT-s-OFDM 16QAM	1	1	15.62	15.84	15.78	17.50
		36	18	16.51	16.29	16.33	17.50
	DFT-s-OFDM 64QAM	1	1	15.96	16.28	16.54	17.50
		36	18	16.90	16.74	16.80	17.50
	DFT-s-OFDM 256QAM	1	1	16.55	16.73	16.17	17.50
		36	18	15.62	15.96	15.76	17.50
	CP-OFDM QPSK	1	1	15.84	15.86	16.02	17.50
	CP-OFDM 16QAM	1	1	16.11	16.03	16.07	17.50
	CP-OFDM 64QAM	1	1	15.91	16.05	16.31	17.50
	CP-OFDM 256QAM	1	1	15.68	15.90	16.18	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	15.93	16.21	16.25	17.50
		1	104	15.88	16.10	16.20	17.50
		50	25	16.52	16.66	16.34	17.50
		100	0	16.52	16.58	16.42	17.50
	DFT-s-OFDM QPSK	1	1	16.36	16.29	16.24	17.50
		1	104	16.32	16.41	16.18	17.50
		50	25	16.43	16.46	16.48	17.50
		100	0	16.44	16.51	16.38	17.50
	DFT-s-OFDM 16QAM	1	1	16.18	15.92	15.94	17.50
		50	25	16.21	16.27	16.39	17.50
	DFT-s-OFDM 64QAM	1	1	16.18	16.44	16.46	17.50
		50	25	16.76	16.92	16.86	17.50
	DFT-s-OFDM 256QAM	1	1	16.37	16.39	16.05	17.50
		50	25	15.84	16.00	15.80	17.50
	CP-OFDM QPSK	1	1	16.18	16.28	16.10	17.50
	CP-OFDM 16QAM	1	1	16.35	16.39	16.13	17.50
	CP-OFDM 64QAM	1	1	16.11	16.13	16.07	17.50
	CP-OFDM 256QAM	1	1	15.74	15.96	15.88	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM BPSK	1	1	15.89	16.07	16.05	17.50
		1	131	15.92	15.92	15.96	17.50
		64	32	16.48	16.62	16.52	17.50
		128	0	16.40	16.36	16.14	17.50
	DFT-s-OFDM QPSK	1	1	16.28	16.19	15.94	17.50
		1	131	16.32	16.13	16.14	17.50
		64	32	16.21	16.24	16.46	17.50
		128	0	16.44	16.21	16.44	17.50
	DFT-s-OFDM 16QAM	1	1	15.82	15.60	15.98	17.50
		64	32	16.39	16.37	16.21	17.50
	DFT-s-OFDM 64QAM	1	1	16.02	16.58	16.38	17.50
		64	32	16.70	16.64	16.68	17.50
	DFT-s-OFDM 256QAM	1	1	16.19	16.45	16.09	17.50
		64	32	15.70	16.08	15.70	17.50
	CP-OFDM QPSK	1	1	15.98	16.18	15.98	17.50
	CP-OFDM 16QAM	1	1	16.11	16.37	16.31	17.50
	CP-OFDM 64QAM	1	1	16.03	16.03	16.07	17.50
	CP-OFDM 256QAM	1	1	15.66	15.90	15.76	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	16.07	16.21	16.05	17.50
		1	158	15.96	16.18	16.12	17.50
		80	40	16.36	16.70	16.40	17.50
		160	0	16.56	16.32	16.34	17.50
	DFT-s-OFDM QPSK	1	1	16.26	16.17	16.20	17.50
		1	158	16.22	16.45	16.00	17.50
		80	40	16.61	16.42	16.50	17.50
		160	0	16.18	16.57	16.50	17.50
	DFT-s-OFDM 16QAM	1	1	15.96	15.76	15.80	17.50
		80	40	16.13	16.43	16.09	17.50
	DFT-s-OFDM 64QAM	1	1	15.98	16.58	16.38	17.50
		80	40	16.96	16.60	16.80	17.50
	DFT-s-OFDM 256QAM	1	1	16.35	16.49	16.05	17.50
		80	40	15.70	15.98	15.80	17.50
	CP-OFDM QPSK	1	1	15.94	16.10	16.04	17.50
	CP-OFDM 16QAM	1	1	16.07	16.53	16.41	17.50
	CP-OFDM 64QAM	1	1	16.25	16.29	16.31	17.50
	CP-OFDM 256QAM	1	1	16.02	15.94	15.90	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	16.09	16.09	16.05	17.50
		1	214	15.98	16.14	16.04	17.50
		108	54	16.54	16.80	16.32	17.50
		216	0	16.30	16.50	16.48	17.50
	DFT-s-OFDM QPSK	1	1	16.42	16.47	16.28	17.50
		1	214	16.30	16.33	16.00	17.50
		108	54	16.39	16.44	16.40	17.50
		216	0	16.48	16.31	16.30	17.50
	DFT-s-OFDM 16QAM	1	1	15.98	15.78	16.00	17.50
		108	54	16.21	16.39	16.21	17.50
	DFT-s-OFDM 64QAM	1	1	16.14	16.40	16.48	17.50
		108	54	16.76	16.78	16.62	17.50
	DFT-s-OFDM 256QAM	1	1	16.17	16.51	16.13	17.50
		108	54	15.90	15.88	15.80	17.50
	CP-OFDM QPSK	1	1	15.98	16.04	16.02	17.50
	CP-OFDM 16QAM	1	1	16.21	16.37	16.31	17.50
	CP-OFDM 64QAM	1	1	16.25	16.27	16.05	17.50
	CP-OFDM 256QAM	1	1	15.94	15.96	15.96	17.50

n2 SA&NSA							
Hotspot on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.67	20.53	20.59	21.50
		1	23	20.49	20.51	20.65	21.50
		12	6	20.75	20.77	21.35	21.50
		25	0	20.83	20.93	20.15	21.50
	DFT-s-OFDM QPSK	1	1	20.71	20.66	20.08	21.50
		1	23	20.55	20.72	20.41	21.50
		12	6	20.34	20.81	20.73	21.50
		25	0	20.68	20.85	20.38	21.50
	DFT-s-OFDM 16QAM	1	1	19.99	20.33	20.39	21.50
		12	6	21.01	20.63	20.83	21.50
	DFT-s-OFDM 64QAM	1	1	19.83	19.71	19.93	21.50
		12	6	20.21	20.61	20.55	21.50
	DFT-s-OFDM 256QAM	1	1	18.53	18.47	18.51	19.50
		12	6	18.49	18.31	18.21	19.50
	CP-OFDM QPSK	1	1	20.77	20.49	20.57	21.50
	CP-OFDM 16QAM	1	1	21.16	20.88	21.26	21.50
	CP-OFDM 64QAM	1	1	19.36	19.34	19.56	20.50
	CP-OFDM 256QAM	1	1	15.87	16.13	16.27	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	20.53	20.65	20.63	21.50
		1	50	20.61	20.65	20.71	21.50
		25	12	21.01	20.85	20.79	21.50
		50	0	20.73	20.69	20.49	21.50
	DFT-s-OFDM QPSK	1	1	20.61	20.50	20.36	21.50
		1	50	20.59	20.60	20.47	21.50
		25	12	20.62	20.73	20.81	21.50
		50	0	20.66	20.71	20.76	21.50
	DFT-s-OFDM 16QAM	1	1	20.29	20.33	20.45	21.50
		25	12	21.03	20.77	20.87	21.50
	DFT-s-OFDM 64QAM	1	1	19.97	19.93	19.91	21.50
		25	12	20.27	20.31	20.37	21.50
	DFT-s-OFDM 256QAM	1	1	18.51	18.49	18.59	19.50
		25	12	18.53	18.31	18.45	19.50
	CP-OFDM QPSK	1	1	20.99	20.63	20.61	21.50
	CP-OFDM 16QAM	1	1	20.76	20.88	20.98	21.50
	CP-OFDM 64QAM	1	1	19.52	19.42	19.66	20.50
	CP-OFDM 256QAM	1	1	16.11	15.93	16.07	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.41	20.35	20.49	21.50
		1	77	20.49	20.53	20.43	21.50
		36	18	21.09	20.87	20.79	21.50
		75	0	20.73	20.55	20.47	21.50
	DFT-s-OFDM QPSK	1	1	20.69	20.86	20.42	21.50
		1	77	20.57	20.84	20.39	21.50
		36	18	20.94	20.57	20.57	21.50
		75	0	20.74	20.73	20.66	21.50
	DFT-s-OFDM 16QAM	1	1	19.89	20.69	20.09	21.50
		36	18	20.99	20.95	20.63	21.50
	DFT-s-OFDM 64QAM	1	1	19.87	20.05	20.15	21.50
		36	18	20.43	20.31	20.21	21.50
	DFT-s-OFDM 256QAM	1	1	18.57	18.67	18.47	19.50
		36	18	18.59	18.39	18.57	19.50
	CP-OFDM QPSK	1	1	20.83	20.77	20.53	21.50
	CP-OFDM 16QAM	1	1	20.96	20.58	20.90	21.50
	CP-OFDM 64QAM	1	1	19.42	19.54	19.52	20.50
	CP-OFDM 256QAM	1	1	16.01	15.75	16.11	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM	1	1	20.45	20.49	20.39	21.50

	BPSK	1	104	20.43	20.49	20.59	21.50
		50	25	20.91	20.51	20.65	21.50
		100	0	20.75	20.69	20.51	21.50
	DFT-s-OFDM QPSK	1	1	20.49	20.42	20.38	21.50
		1	104	20.43	20.52	20.41	21.50
		50	25	20.64	20.73	20.71	21.50
		100	0	20.44	20.69	20.50	21.50
	DFT-s-OFDM 16QAM	1	1	20.23	20.27	20.35	21.50
		50	25	20.99	20.69	20.69	21.50
	DFT-s-OFDM 64QAM	1	1	19.91	20.03	20.03	21.50
		50	25	20.33	20.11	20.27	21.50
	DFT-s-OFDM 256QAM	1	1	18.45	18.57	18.59	19.50
		50	25	18.53	18.01	18.47	19.50
	CP-OFDM QPSK	1	1	20.65	20.61	20.59	21.50
	CP-OFDM 16QAM	1	1	20.86	20.88	20.78	21.50
	CP-OFDM 64QAM	1	1	19.50	19.30	19.60	20.50
	CP-OFDM 256QAM	1	1	15.99	15.81	15.89	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM BPSK	1	1	20.71	20.53	20.41	21.50
		1	131	20.57	20.49	20.51	21.50
		64	32	20.99	20.87	20.87	21.50
		128	0	20.61	20.55	20.63	21.50
	DFT-s-OFDM QPSK	1	1	20.65	20.76	20.62	21.50
		1	131	20.59	20.54	20.37	21.50
		64	32	20.80	20.63	20.71	21.50
		128	0	20.68	20.67	20.62	21.50
	DFT-s-OFDM 16QAM	1	1	20.23	20.57	20.35	21.50
		64	32	20.87	20.95	20.85	21.50
	DFT-s-OFDM 64QAM	1	1	20.03	20.13	20.05	21.50
		64	32	20.33	20.27	20.25	21.50
	DFT-s-OFDM 256QAM	1	1	18.55	18.37	18.55	19.50
		64	32	18.57	18.17	18.41	19.50
	CP-OFDM QPSK	1	1	20.83	20.63	20.85	21.50
	CP-OFDM 16QAM	1	1	20.72	20.88	20.86	21.50
	CP-OFDM 64QAM	1	1	19.58	19.32	19.62	20.50
	CP-OFDM 256QAM	1	1	15.95	16.03	16.01	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	20.57	20.57	20.41	21.50
		1	158	20.57	20.43	20.79	21.50
		80	40	20.79	20.69	21.01	21.50
		160	0	20.47	20.79	20.47	21.50

	DFT-s-OFDM QPSK	1	1	20.49	20.56	20.26	21.50
		1	158	20.69	20.66	20.39	21.50
		80	40	20.54	20.55	20.71	21.50
		160	0	20.48	20.83	20.88	21.50
	DFT-s-OFDM 16QAM	1	1	20.15	20.23	20.55	21.50
		80	40	21.05	20.89	20.89	21.50
	DFT-s-OFDM 64QAM	1	1	19.89	19.95	20.11	21.50
		80	40	20.43	20.15	20.29	21.50
	DFT-s-OFDM 256QAM	1	1	18.83	18.61	18.53	19.50
		80	40	18.37	18.31	18.59	19.50
	CP-OFDM QPSK	1	1	20.67	20.61	20.71	21.50
	CP-OFDM 16QAM	1	1	21.06	21.12	21.08	21.50
Bandwidth	CP-OFDM 64QAM	1	1	19.54	19.18	19.50	20.50
	CP-OFDM 256QAM	1	1	16.09	16.03	15.99	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	20.63	20.57	20.47	21.50
		1	214	20.49	20.59	20.59	21.50
		108	54	20.93	20.71	20.85	21.50
		216	0	20.65	20.65	20.57	21.50
	DFT-s-OFDM QPSK	1	1	20.67	20.58	20.44	21.50
		1	214	20.59	20.62	20.45	21.50
		108	54	20.72	20.73	20.79	21.50
		216	0	20.64	20.67	20.66	21.50
	DFT-s-OFDM 16QAM	1	1	20.21	20.41	20.33	21.50
		108	54	20.91	20.77	20.87	21.50
	DFT-s-OFDM 64QAM	1	1	19.89	19.97	20.01	21.50
		108	54	20.37	20.29	20.33	21.50
	DFT-s-OFDM 256QAM	1	1	18.61	18.47	18.63	19.50
		108	54	18.55	18.21	18.39	19.50
	CP-OFDM QPSK	1	1	20.83	20.71	20.71	21.50
	CP-OFDM 16QAM	1	1	20.84	20.94	20.90	21.50
	CP-OFDM 64QAM	1	1	19.42	19.36	19.54	20.50
	CP-OFDM 256QAM	1	1	16.03	15.91	16.09	17.50

n2 NSA							
Normal Power&Receiver on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.12	22.20	22.38	23.50
		1	23	22.24	22.12	22.06	23.50
		12	6	22.39	22.13	22.37	23.50
		25	0	21.74	21.46	21.78	22.50
	DFT-s-OFDM QPSK	1	1	22.33	22.20	22.10	23.50
		1	23	22.15	22.22	22.23	23.50
		12	6	22.18	22.37	22.34	23.50
		25	0	21.06	21.18	21.08	22.50
	DFT-s-OFDM 16QAM	1	1	20.53	20.97	20.71	22.50
		12	6	21.64	21.44	21.58	22.50
	DFT-s-OFDM 64QAM	1	1	19.35	19.41	19.37	21.00
		12	6	19.85	19.85	19.91	21.00
	DFT-s-OFDM 256QAM	1	1	18.07	18.23	17.95	19.00
		12	6	17.39	17.67	17.91	19.00
	CP-OFDM QPSK	1	1	21.14	20.54	20.70	22.00
	CP-OFDM 16QAM	1	1	20.68	20.56	20.32	21.50
	CP-OFDM 64QAM	1	1	18.74	18.72	18.82	20.00
	CP-OFDM 256QAM	1	1	15.44	15.42	15.36	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	22.10	22.18	22.16	23.50
		1	50	22.34	22.06	22.14	23.50
		25	12	22.43	22.51	22.25	23.50
		50	0	21.96	21.48	21.78	22.50
	DFT-s-OFDM QPSK	1	1	22.03	22.20	22.08	23.50
		1	50	22.11	22.34	22.49	23.50
		25	12	22.46	22.09	22.20	23.50
		50	0	21.06	21.20	21.42	22.50
	DFT-s-OFDM 16QAM	1	1	20.70	21.03	21.13	22.50
		25	12	21.58	21.44	21.80	22.50
	DFT-s-OFDM 64QAM	1	1	19.73	19.43	19.51	21.00
		25	12	19.71	19.83	19.95	21.00
	DFT-s-OFDM 256QAM	1	1	18.17	18.23	18.01	19.00
		25	12	17.51	17.79	17.81	19.00
	CP-OFDM QPSK	1	1	20.98	20.64	20.52	22.00
	CP-OFDM 16QAM	1	1	20.72	20.46	20.60	21.50
	CP-OFDM 64QAM	1	1	18.80	18.92	18.86	20.00
	CP-OFDM 256QAM	1	1	15.70	15.54	15.30	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.20	22.28	22.38	23.50
		1	77	22.28	22.18	22.14	23.50
		36	18	22.49	22.31	22.51	23.50
		75	0	22.02	21.82	22.06	22.50
	DFT-s-OFDM QPSK	1	1	22.23	22.06	22.28	23.50
		1	77	22.31	22.04	22.55	23.50
		36	18	22.50	22.29	22.28	23.50
		75	0	21.28	21.26	21.40	22.50
	DFT-s-OFDM 16QAM	1	1	20.83	20.79	21.03	22.50
		36	18	21.64	21.52	21.72	22.50
	DFT-s-OFDM 64QAM	1	1	19.55	19.65	19.59	21.00
		36	18	19.77	20.13	20.13	21.00
	DFT-s-OFDM 256QAM	1	1	17.97	18.09	17.95	19.00
		36	18	17.49	17.91	18.03	19.00
	CP-OFDM QPSK	1	1	20.94	20.68	20.66	22.00
	CP-OFDM 16QAM	1	1	20.78	20.44	20.54	21.50
	CP-OFDM 64QAM	1	1	19.00	18.86	18.82	20.00
	CP-OFDM 256QAM	1	1	15.80	15.66	15.50	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	22.02	22.14	22.34	23.50
		1	104	22.24	22.18	22.20	23.50
		50	25	22.49	22.33	22.39	23.50
		100	0	21.84	21.64	21.88	22.50
	DFT-s-OFDM QPSK	1	1	22.19	22.12	22.18	23.50
		1	104	22.19	22.12	22.39	23.50
		50	25	22.34	22.27	22.24	23.50
		100	0	21.10	21.12	21.28	22.50
	DFT-s-OFDM 16QAM	1	1	20.72	20.89	20.91	22.50
		50	25	21.66	21.50	21.68	22.50
	DFT-s-OFDM 64QAM	1	1	19.55	19.57	19.41	21.00
		50	25	19.75	20.01	20.05	21.00
	DFT-s-OFDM 256QAM	1	1	18.07	18.19	17.95	19.00
		50	25	17.59	17.81	17.91	19.00
	CP-OFDM QPSK	1	1	21.04	20.70	20.68	22.00
	CP-OFDM 16QAM	1	1	20.70	20.50	20.50	21.50
	CP-OFDM 64QAM	1	1	18.90	18.78	18.84	20.00
	CP-OFDM 256QAM	1	1	15.62	15.62	15.42	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM	1	1	22.21	22.10	22.32	23.50

	BPSK	1	131	22.12	22.18	22.02	23.50
		64	32	22.25	22.39	22.21	23.50
		128	0	21.88	21.52	21.98	22.50
	DFT-s-OFDM QPSK	1	1	22.03	22.06	22.10	23.50
		1	131	22.07	22.02	22.23	23.50
		64	32	22.32	22.19	22.22	23.50
		128	0	21.22	21.14	21.08	22.50
	DFT-s-OFDM 16QAM	1	1	20.51	20.77	20.67	22.50
		64	32	21.54	21.30	21.56	22.50
	DFT-s-OFDM 64QAM	1	1	19.27	19.39	19.53	21.00
		64	32	19.79	19.95	19.89	21.00
	DFT-s-OFDM 256QAM	1	1	17.75	18.03	17.89	19.00
		64	32	17.45	17.81	17.89	19.00
	CP-OFDM QPSK	1	1	20.76	20.56	20.70	22.00
	CP-OFDM 16QAM	1	1	20.56	20.42	20.64	21.50
	CP-OFDM 64QAM	1	1	18.98	18.84	18.82	20.00
	CP-OFDM 256QAM	1	1	15.38	15.38	15.32	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	22.22	22.10	22.26	23.50
		1	158	22.18	22.08	22.20	23.50
		80	40	22.49	22.15	22.29	23.50
		160	0	21.84	21.78	21.84	22.50
	DFT-s-OFDM QPSK	1	1	22.10	22.04	22.04	23.50
		1	158	22.11	22.18	22.21	23.50
		80	40	22.22	22.17	22.32	23.50
		160	0	21.18	21.36	21.14	22.50
	DFT-s-OFDM 16QAM	1	1	20.67	20.83	21.09	22.50
		80	40	21.40	21.24	21.80	22.50
	DFT-s-OFDM 64QAM	1	1	19.29	19.51	19.61	21.00
		80	40	20.03	20.03	20.03	21.00
	DFT-s-OFDM 256QAM	1	1	17.83	18.21	17.91	19.00
		80	40	17.67	17.73	17.87	19.00
	CP-OFDM QPSK	1	1	20.82	20.62	20.56	22.00
	CP-OFDM 16QAM	1	1	20.72	20.64	20.60	21.50
	CP-OFDM 64QAM	1	1	18.78	18.96	18.96	20.00
	CP-OFDM 256QAM	1	1	15.52	15.40	15.50	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	22.02	22.04	22.22	23.50
		1	214	22.18	22.02	22.04	23.50
		108	54	22.43	22.33	22.35	23.50
		216	0	21.92	21.70	21.88	22.50

	DFT-s-OFDM QPSK	1	1	22.06	22.26	22.20	23.50
		1	214	22.03	22.08	22.35	23.50
		108	54	22.40	22.35	22.26	23.50
		216	0	21.20	21.22	21.22	22.50
	DFT-s-OFDM 16QAM	1	1	20.55	20.85	20.87	22.50
		108	54	21.52	21.40	21.58	22.50
	DFT-s-OFDM 64QAM	1	1	19.39	19.45	19.49	21.00
		108	54	19.83	19.91	19.97	21.00
	DFT-s-OFDM 256QAM	1	1	17.95	18.05	17.93	19.00
		108	54	17.59	17.83	17.89	19.00
	CP-OFDM QPSK	1	1	20.94	20.68	20.74	22.00
	CP-OFDM 16QAM	1	1	20.58	20.42	20.58	21.50
	CP-OFDM 64QAM	1	1	18.96	18.82	18.74	20.00
	CP-OFDM 256QAM	1	1	15.54	15.46	15.44	17.00

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Receiver off--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.76	20.96	20.90	22.50
		1	23	20.76	20.88	21.20	22.50
		12	6	20.92	20.66	20.96	22.50
		25	0	20.91	20.51	21.31	22.50
	DFT-s-OFDM QPSK	1	1	20.76	20.71	20.92	22.50
		1	23	20.91	20.54	21.06	22.50
		12	6	20.87	21.28	21.17	22.50
		25	0	20.88	21.06	21.12	22.50
	DFT-s-OFDM 16QAM	1	1	20.19	20.81	20.55	22.00
		12	6	20.97	20.69	20.65	22.00
	DFT-s-OFDM 64QAM	1	1	19.46	19.62	19.22	21.00
		12	6	19.91	20.03	20.07	21.00
	DFT-s-OFDM 256QAM	1	1	17.94	18.06	17.86	19.00
		12	6	18.15	17.99	17.59	19.00
	CP-OFDM QPSK	1	1	20.72	20.68	20.96	21.50
	CP-OFDM 16QAM	1	1	20.75	20.41	20.43	21.50
	CP-OFDM 64QAM	1	1	18.99	19.07	18.89	20.00
	CP-OFDM 256QAM	1	1	15.40	15.56	15.08	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	20.70	20.92	21.00	22.50
		1	50	20.68	20.76	21.10	22.50
		25	12	20.80	20.74	21.08	22.50
		50	0	21.01	20.59	21.13	22.50

	DFT-s-OFDM QPSK	1	1	20.82	20.65	20.92	22.50
		1	50	20.97	20.58	21.04	22.50
		25	12	20.97	21.20	21.03	22.50
		50	0	20.98	21.10	20.96	22.50
	DFT-s-OFDM 16QAM	1	1	20.27	20.69	20.63	22.00
		25	12	20.99	20.77	20.47	22.00
	DFT-s-OFDM 64QAM	1	1	19.48	19.56	19.28	21.00
		25	12	19.93	20.15	19.97	21.00
	DFT-s-OFDM 256QAM	1	1	17.90	18.00	17.82	19.00
		25	12	18.19	17.87	17.57	19.00
	CP-OFDM QPSK	1	1	20.72	20.68	21.06	21.50
	CP-OFDM 16QAM	1	1	20.57	20.23	20.51	21.50
Bandwidth	CP-OFDM 64QAM	1	1	19.03	18.93	18.81	20.00
	CP-OFDM 256QAM	1	1	15.38	15.58	15.18	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.74	20.86	21.00	22.50
		1	77	20.54	20.70	20.90	22.50
		36	18	20.96	21.08	20.86	22.50
		75	0	21.01	21.03	21.03	22.50
	DFT-s-OFDM QPSK	1	1	20.86	20.89	20.88	22.50
		1	77	20.71	20.88	21.06	22.50
		36	18	21.09	21.02	21.05	22.50
		75	0	21.00	20.88	20.92	22.50
	DFT-s-OFDM 16QAM	1	1	20.39	20.51	20.37	22.00
		36	18	21.05	21.07	20.91	22.00
	DFT-s-OFDM 64QAM	1	1	19.56	19.60	19.64	21.00
		36	18	20.03	19.99	19.99	21.00
	DFT-s-OFDM 256QAM	1	1	18.14	18.10	18.08	19.00
		36	18	18.09	17.83	18.01	19.00
	CP-OFDM QPSK	1	1	20.68	20.64	20.84	21.50
	CP-OFDM 16QAM	1	1	20.55	20.37	20.49	21.50
	CP-OFDM 64QAM	1	1	18.81	18.93	18.75	20.00
	CP-OFDM 256QAM	1	1	15.52	15.36	15.44	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	20.56	20.82	21.08	22.50
		1	104	20.58	20.66	20.74	22.50
		50	25	20.80	20.98	20.96	22.50
		100	0	21.03	20.97	21.01	22.50
	DFT-s-OFDM QPSK	1	1	20.78	20.63	20.86	22.50
		1	104	20.69	20.66	20.88	22.50
		50	25	21.13	20.90	21.01	22.50

		100	0	20.94	20.90	20.76	22.50
	DFT-s-OFDM 16QAM	1	1	20.45	20.25	20.43	22.00
		50	25	20.93	20.99	20.79	22.00
	DFT-s-OFDM 64QAM	1	1	19.50	19.38	19.46	21.00
		50	25	19.85	19.97	19.97	21.00
	DFT-s-OFDM 256QAM	1	1	18.08	18.10	18.24	19.00
		50	25	17.93	17.85	17.91	19.00
	CP-OFDM QPSK	1	1	20.56	20.70	21.02	21.50
	CP-OFDM 16QAM	1	1	20.49	20.27	20.33	21.50
Bandwidth	CP-OFDM 64QAM	1	1	18.57	18.87	18.51	20.00
	CP-OFDM 256QAM	1	1	15.48	15.54	15.32	16.50
	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM BPSK	1	1	20.86	20.82	20.98	22.50
		1	131	20.68	20.72	20.86	22.50
		64	32	21.00	20.86	20.80	22.50
		128	0	20.91	21.11	21.07	22.50
	DFT-s-OFDM QPSK	1	1	20.72	20.85	21.00	22.50
		1	131	20.95	20.94	21.04	22.50
		64	32	20.95	20.90	20.93	22.50
		128	0	21.10	20.76	21.02	22.50
	DFT-s-OFDM 16QAM	1	1	20.51	20.53	20.41	22.00
		64	32	20.81	20.79	20.79	22.00
	DFT-s-OFDM 64QAM	1	1	19.62	19.60	19.40	21.00
		64	32	20.07	19.85	20.25	21.00
	DFT-s-OFDM 256QAM	1	1	18.08	18.10	18.36	19.00
		64	32	18.19	18.07	17.85	19.00
	CP-OFDM QPSK	1	1	20.94	20.82	20.78	21.50
	CP-OFDM 16QAM	1	1	20.43	20.51	20.45	21.50
	CP-OFDM 64QAM	1	1	18.91	18.95	18.81	20.00
	CP-OFDM 256QAM	1	1	15.34	15.32	15.42	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	20.64	20.68	20.90	22.50
		1	158	20.62	20.72	20.76	22.50
		80	40	20.86	20.94	20.86	22.50
		160	0	20.91	21.07	21.09	22.50
	DFT-s-OFDM QPSK	1	1	20.66	20.77	20.80	22.50
		1	158	20.63	20.90	21.04	22.50
		80	40	21.21	20.98	21.13	22.50
		160	0	20.82	21.06	21.02	22.50
	DFT-s-OFDM 16QAM	1	1	20.27	20.27	20.37	22.00
		80	40	21.07	20.89	20.81	22.00

	DFT-s-OFDM 64QAM	1	1	19.50	19.56	19.46	21.00
		80	40	20.03	19.93	19.97	21.00
	DFT-s-OFDM 256QAM	1	1	18.10	18.02	18.16	19.00
		80	40	17.89	17.93	17.75	19.00
	CP-OFDM QPSK	1	1	20.84	20.82	21.06	21.50
	CP-OFDM 16QAM	1	1	20.49	20.33	20.25	21.50
	CP-OFDM 64QAM	1	1	18.65	18.89	18.73	20.00
	CP-OFDM 256QAM	1	1	15.52	15.34	15.48	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	20.72	20.76	20.98	22.50
		1	214	20.62	20.74	20.84	22.50
		108	54	20.92	21.04	20.96	22.50
		216	0	21.03	20.89	21.09	22.50
	DFT-s-OFDM QPSK	1	1	20.72	20.75	20.92	22.50
		1	214	20.73	20.76	21.04	22.50
		108	54	21.11	21.08	20.95	22.50
		216	0	20.90	20.94	20.92	22.50
	DFT-s-OFDM 16QAM	1	1	20.35	20.37	20.47	22.00
		108	54	20.97	20.93	20.77	22.00
	DFT-s-OFDM 64QAM	1	1	19.48	19.46	19.52	21.00
		108	54	19.99	19.93	20.09	21.00
	DFT-s-OFDM 256QAM	1	1	18.16	18.04	18.18	19.00
		108	54	17.99	17.85	17.87	19.00
	CP-OFDM QPSK	1	1	20.72	20.70	20.92	21.50
	CP-OFDM 16QAM	1	1	20.43	20.43	20.37	21.50
	CP-OFDM 64QAM	1	1	18.73	18.83	18.71	20.00
	CP-OFDM 256QAM	1	1	15.40	15.46	15.30	16.50

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Hotspot on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.07	18.83	19.13	20.50
		1	23	19.15	18.61	18.77	20.50
		12	6	19.22	19.14	18.86	20.50
		25	0	19.01	19.29	19.25	20.50
	DFT-s-OFDM QPSK	1	1	18.55	18.99	19.27	20.50
		1	23	18.99	18.76	19.20	20.50
		12	6	19.10	18.89	19.00	20.50
		25	0	18.78	18.85	19.17	20.50
	DFT-s-OFDM 16QAM	1	1	18.32	18.58	18.61	20.00
		12	6	18.99	18.89	19.25	20.00

	DFT-s-OFDM 64QAM	1	1	18.37	18.49	18.36	20.00
		12	6	18.97	18.75	19.13	20.00
	DFT-s-OFDM 256QAM	1	1	18.11	17.99	17.77	19.50
		12	6	17.74	18.12	17.58	19.50
	CP-OFDM QPSK	1	1	18.87	18.65	18.79	20.00
	CP-OFDM 16QAM	1	1	18.57	18.93	18.91	20.00
	CP-OFDM 64QAM	1	1	18.84	19.08	18.92	20.00
	CP-OFDM 256QAM	1	1	15.72	15.36	15.80	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	18.99	18.79	19.05	20.50
		1	50	19.01	18.71	18.87	20.50
		25	12	19.06	19.12	18.80	20.50
		50	0	18.89	19.13	19.07	20.50
	DFT-s-OFDM QPSK	1	1	18.63	18.83	19.13	20.50
		1	50	18.91	18.78	19.04	20.50
		25	12	19.18	19.01	19.02	20.50
		50	0	18.84	18.97	19.07	20.50
	DFT-s-OFDM 16QAM	1	1	18.24	18.54	18.59	20.00
		25	12	19.11	18.79	19.07	20.00
	DFT-s-OFDM 64QAM	1	1	18.25	18.37	18.40	20.00
		25	12	18.91	18.83	18.95	20.00
	DFT-s-OFDM 256QAM	1	1	18.05	17.91	17.77	19.50
		25	12	17.86	17.96	17.68	19.50
	CP-OFDM QPSK	1	1	18.71	18.61	18.61	20.00
	CP-OFDM 16QAM	1	1	18.69	18.83	18.97	20.00
	CP-OFDM 64QAM	1	1	18.78	18.98	18.76	20.00
	CP-OFDM 256QAM	1	1	15.62	15.40	15.66	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	18.81	18.95	18.89	20.50
		1	77	18.95	18.63	18.75	20.50
		36	18	18.96	19.18	18.92	20.50
		75	0	19.03	18.81	19.01	20.50
	DFT-s-OFDM QPSK	1	1	18.69	18.61	19.09	20.50
		1	77	18.77	18.64	19.10	20.50
		36	18	19.06	19.13	18.90	20.50
		75	0	18.88	18.83	18.87	20.50
	DFT-s-OFDM 16QAM	1	1	18.24	18.48	18.51	20.00
		36	18	18.91	18.91	19.21	20.00
	DFT-s-OFDM 64QAM	1	1	18.41	18.47	18.48	20.00
		36	18	18.97	18.95	18.97	20.00
	DFT-s-OFDM	1	1	18.23	18.25	18.01	19.50

	256QAM	36	18	17.84	17.72	17.90	19.50
	CP-OFDM QPSK	1	1	18.73	18.87	18.47	20.00
	CP-OFDM 16QAM	1	1	18.97	18.99	18.97	20.00
	CP-OFDM 64QAM	1	1	18.84	18.92	18.92	20.00
	CP-OFDM 256QAM	1	1	15.66	15.30	15.62	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	18.83	18.83	18.75	20.50
		1	104	19.03	18.59	18.77	20.50
		50	25	18.84	18.84	18.90	20.50
		100	0	18.79	18.99	18.91	20.50
	DFT-s-OFDM QPSK	1	1	18.55	18.85	18.91	20.50
		1	104	18.75	18.64	19.12	20.50
		50	25	19.10	19.05	18.86	20.50
		100	0	18.78	18.79	19.03	20.50
	DFT-s-OFDM 16QAM	1	1	18.38	18.20	18.35	20.00
		50	25	18.85	18.63	19.07	20.00
	DFT-s-OFDM 64QAM	1	1	18.27	18.47	18.24	20.00
		50	25	18.93	18.63	18.79	20.00
	DFT-s-OFDM 256QAM	1	1	18.05	17.91	17.77	19.50
		50	25	17.62	17.90	17.88	19.50
	CP-OFDM QPSK	1	1	18.75	18.53	18.39	20.00
	CP-OFDM 16QAM	1	1	18.63	18.91	18.89	20.00
	CP-OFDM 64QAM	1	1	18.56	18.76	18.74	20.00
	CP-OFDM 256QAM	1	1	15.50	15.48	15.60	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500/1862.5	376000/1880	379500/1897.5	
25MHz	DFT-s-OFDM BPSK	1	1	18.79	18.79	18.91	20.50
		1	131	18.91	18.89	18.71	20.50
		64	32	19.10	19.02	18.78	20.50
		128	0	19.13	18.95	19.09	20.50
	DFT-s-OFDM QPSK	1	1	18.81	18.83	18.95	20.50
		1	131	18.69	18.74	19.22	20.50
		64	32	19.16	19.07	19.04	20.50
		128	0	18.88	18.91	18.85	20.50
	DFT-s-OFDM 16QAM	1	1	18.40	18.42	18.55	20.00
		64	32	19.03	18.87	18.99	20.00
	DFT-s-OFDM 64QAM	1	1	18.31	18.45	18.38	20.00
		64	32	18.93	18.81	18.97	20.00
	DFT-s-OFDM 256QAM	1	1	18.07	17.93	17.83	19.50
		64	32	17.92	17.84	17.68	19.50
	CP-OFDM QPSK	1	1	18.67	18.59	18.57	20.00
	CP-OFDM 16QAM	1	1	18.91	19.09	18.89	20.00

	CP-OFDM 64QAM	1	1	18.72	18.96	18.92	20.00
	CP-OFDM 256QAM	1	1	15.44	15.44	15.52	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376000/1880	379000/1895	
30MHz	DFT-s-OFDM BPSK	1	1	18.77	18.69	19.03	20.50
		1	158	19.13	18.99	19.05	20.50
		80	40	18.96	19.22	18.70	20.50
		160	0	18.71	18.75	18.71	20.50
	DFT-s-OFDM QPSK	1	1	18.57	18.51	19.01	20.50
		1	158	18.57	19.04	19.34	20.50
		80	40	19.24	18.87	19.04	20.50
		160	0	19.10	18.99	18.79	20.50
	DFT-s-OFDM 16QAM	1	1	18.36	18.12	18.29	20.00
		80	40	18.77	18.55	18.99	20.00
	DFT-s-OFDM 64QAM	1	1	18.39	18.65	18.26	20.00
		80	40	18.91	18.95	18.73	20.00
	DFT-s-OFDM 256QAM	1	1	18.01	18.19	17.91	19.50
		80	40	17.72	17.66	17.96	19.50
	CP-OFDM QPSK	1	1	18.65	18.51	18.47	20.00
	CP-OFDM 16QAM	1	1	18.87	18.73	18.93	20.00
	CP-OFDM 64QAM	1	1	18.96	18.88	18.92	20.00
	CP-OFDM 256QAM	1	1	15.36	15.50	15.64	16.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376000/1880	378000/1890	
40MHz	DFT-s-OFDM BPSK	1	1	18.81	18.77	18.91	20.50
		1	214	18.99	18.77	18.79	20.50
		108	54	18.98	19.00	18.88	20.50
		216	0	18.97	18.95	18.97	20.50
	DFT-s-OFDM QPSK	1	1	18.65	18.75	18.95	20.50
		1	214	18.75	18.80	19.08	20.50
		108	54	19.08	19.05	18.96	20.50
		216	0	18.90	18.89	18.95	20.50
	DFT-s-OFDM 16QAM	1	1	18.32	18.38	18.51	20.00
		108	54	18.95	18.81	19.01	20.00
	DFT-s-OFDM 64QAM	1	1	18.31	18.45	18.44	20.00
		108	54	19.01	18.83	18.87	20.00
	DFT-s-OFDM 256QAM	1	1	18.01	18.03	17.89	19.50
		108	54	17.82	17.82	17.78	19.50
	CP-OFDM QPSK	1	1	18.73	18.69	18.59	20.00
	CP-OFDM 16QAM	1	1	18.81	18.93	18.93	20.00
	CP-OFDM 64QAM	1	1	18.70	18.82	18.86	20.00
	CP-OFDM 256QAM	1	1	15.50	15.46	15.52	16.50

n5 SA&NSA							
Normal Power&Receiver off&Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.85	22.75	22.73	24.50
		1	23	22.56	22.84	22.82	24.50
		12	6	23.04	22.90	22.86	24.50
		25	0	22.39	22.24	22.21	23.50
	DFT-s-OFDM QPSK	1	1	22.78	22.62	22.90	24.50
		1	23	22.78	22.73	22.72	24.50
		12	6	22.77	23.02	22.71	24.50
		25	0	21.72	21.83	21.80	23.50
	DFT-s-OFDM 16QAM	1	1	21.44	21.48	21.44	23.00
		12	6	22.03	21.89	21.77	23.00
	DFT-s-OFDM 64QAM	1	1	20.25	19.95	20.03	21.50
		12	6	20.37	20.59	20.33	21.50
	DFT-s-OFDM 256QAM	1	1	18.85	18.63	18.75	20.00
		12	6	18.58	18.68	18.44	20.00
	CP-OFDM QPSK	1	1	21.35	21.36	21.45	23.00
	CP-OFDM 16QAM	1	1	21.08	21.11	21.08	22.50
	CP-OFDM 64QAM	1	1	19.65	19.44	19.61	21.00
	CP-OFDM 256QAM	1	1	16.44	16.16	16.34	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				165800/829	167300/836.5	168800/844	
10MHz	DFT-s-OFDM BPSK	1	1	22.75	22.81	22.57	24.50
		1	50	22.64	22.84	22.86	24.50
		25	12	22.98	22.98	23.02	24.50
		50	0	22.25	22.48	22.27	23.50
	DFT-s-OFDM QPSK	1	1	22.92	22.76	22.66	24.50
		1	50	22.86	22.89	22.92	24.50
		25	12	23.13	23.12	22.73	24.50
		50	0	21.88	21.89	21.84	23.50
	DFT-s-OFDM 16QAM	1	1	21.46	21.76	21.52	23.00
		25	12	22.03	21.85	22.17	23.00
	DFT-s-OFDM 64QAM	1	1	20.31	19.97	20.13	21.50
		25	12	20.71	20.71	20.33	21.50
	DFT-s-OFDM 256QAM	1	1	18.87	18.97	19.05	20.00
		25	12	18.72	18.54	18.54	20.00
	CP-OFDM QPSK	1	1	21.17	21.48	21.25	23.00
	CP-OFDM 16QAM	1	1	21.20	21.05	21.08	22.50
	CP-OFDM 64QAM	1	1	19.63	19.66	19.49	21.00

	CP-OFDM 256QAM	1	1	16.36	16.44	16.24	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166300/831.5	167300/836.5	168300/841.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.95	22.73	22.91	24.50
		1	77	22.68	22.94	22.68	24.50
		36	18	22.82	23.08	22.78	24.50
		75	0	22.33	22.44	22.53	23.50
	DFT-s-OFDM QPSK	1	1	22.78	22.84	22.90	24.50
		1	77	22.72	22.87	22.66	24.50
		36	18	22.99	22.82	22.99	24.50
		75	0	21.90	21.83	22.08	23.50
	DFT-s-OFDM 16QAM	1	1	21.64	21.64	21.62	23.00
		36	18	21.97	21.95	21.83	23.00
	DFT-s-OFDM 64QAM	1	1	20.19	19.99	20.31	21.50
		36	18	20.67	20.49	20.59	21.50
	DFT-s-OFDM 256QAM	1	1	18.97	18.99	18.93	20.00
		36	18	18.70	18.72	18.62	20.00
	CP-OFDM QPSK	1	1	21.17	21.52	21.37	23.00
	CP-OFDM 16QAM	1	1	21.04	21.27	21.24	22.50
	CP-OFDM 64QAM	1	1	19.77	19.66	19.55	21.00
	CP-OFDM 256QAM	1	1	16.58	16.30	16.22	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166800/834	167300/836.5	167800/839	
20MHz	DFT-s-OFDM BPSK	1	1	22.85	22.75	22.75	24.50
		1	104	22.74	22.82	22.76	24.50
		50	25	22.94	22.94	22.86	24.50
		100	0	22.33	22.40	22.39	23.50
	DFT-s-OFDM QPSK	1	1	22.78	22.74	22.80	24.50
		1	104	22.70	22.83	22.76	24.50
		50	25	22.91	22.94	22.87	24.50
		100	0	21.92	21.95	21.90	23.50
	DFT-s-OFDM 16QAM	1	1	21.46	21.54	21.56	23.00
		50	25	21.99	21.95	21.95	23.00
	DFT-s-OFDM 64QAM	1	1	20.17	20.09	20.13	21.50
		50	25	20.53	20.49	20.43	21.50
	DFT-s-OFDM 256QAM	1	1	19.01	18.83	18.89	20.00
		50	25	18.68	18.58	18.56	20.00
	CP-OFDM QPSK	1	1	21.29	21.36	21.39	23.00
	CP-OFDM 16QAM	1	1	21.14	21.11	21.16	22.50
	CP-OFDM 64QAM	1	1	19.75	19.58	19.63	21.00
	CP-OFDM 256QAM	1	1	16.52	16.28	16.34	18.00

n5 SA&NSA							
Receiver on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5MHz	DFT-s-OFDM BPSK	1	1	21.89	22.49	22.02	23.50
		1	23	22.29	22.23	22.25	23.50
		12	6	22.21	22.25	22.58	23.50
		25	0	22.52	22.46	22.32	23.50
	DFT-s-OFDM QPSK	1	1	22.27	22.33	22.34	23.50
		1	23	22.30	22.20	22.20	23.50
		12	6	22.74	22.74	22.31	23.50
		25	0	21.62	21.82	22.01	23.50
	DFT-s-OFDM 16QAM	1	1	21.65	21.45	21.57	23.00
		12	6	22.17	22.17	21.88	23.00
	DFT-s-OFDM 64QAM	1	1	19.79	20.17	20.08	21.50
		12	6	20.66	20.36	20.44	21.50
	DFT-s-OFDM 256QAM	1	1	19.22	18.72	19.07	20.00
		12	6	18.23	18.55	18.92	20.00
	CP-OFDM QPSK	1	1	21.29	21.23	21.10	23.00
	CP-OFDM 16QAM	1	1	21.27	20.85	21.33	22.50
	CP-OFDM 64QAM	1	1	19.78	19.70	19.58	21.00
	CP-OFDM 256QAM	1	1	16.23	16.31	16.47	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				165800/829	167300/836.5	168800/844	
10MHz	DFT-s-OFDM BPSK	1	1	22.23	22.11	22.46	23.50
		1	50	22.43	22.25	22.37	23.50
		25	12	22.55	22.33	22.36	23.50
		50	0	22.16	22.32	22.20	23.50
	DFT-s-OFDM QPSK	1	1	22.13	22.15	22.44	23.50
		1	50	22.34	22.22	22.30	23.50
		25	12	22.50	22.50	22.53	23.50
		50	0	21.82	21.98	21.83	23.50
	DFT-s-OFDM 16QAM	1	1	21.59	21.43	21.49	23.00
		25	12	22.19	21.89	21.86	23.00
	DFT-s-OFDM 64QAM	1	1	19.95	20.19	20.08	21.50
		25	12	20.46	20.28	20.56	21.50
	DFT-s-OFDM 256QAM	1	1	19.02	18.72	18.83	20.00
		25	12	18.33	18.47	18.64	20.00
	CP-OFDM QPSK	1	1	21.39	21.45	21.40	23.00
	CP-OFDM 16QAM	1	1	21.09	20.97	21.25	22.50
	CP-OFDM 64QAM	1	1	19.86	19.48	19.58	21.00
	CP-OFDM 256QAM	1	1	16.39	16.19	16.49	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166300/831.5	167300/836.5	168300/841.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.37	22.45	22.52	23.50
		1	77	22.37	22.31	22.35	23.50
		36	18	22.37	22.39	22.48	23.50
		75	0	22.40	22.52	22.56	23.50
	DFT-s-OFDM QPSK	1	1	22.25	22.33	22.52	23.50
		1	77	22.44	22.32	22.38	23.50
		36	18	22.80	22.38	22.43	23.50
		75	0	21.98	21.88	22.03	23.50
	DFT-s-OFDM 16QAM	1	1	21.55	21.63	21.51	23.00
		36	18	22.01	21.91	21.90	23.00
	DFT-s-OFDM 64QAM	1	1	20.07	20.13	20.18	21.50
		36	18	20.84	20.38	20.48	21.50
	DFT-s-OFDM 256QAM	1	1	18.96	18.94	19.11	20.00
		36	18	18.61	18.75	18.50	20.00
	CP-OFDM QPSK	1	1	21.43	21.57	21.44	23.00
	CP-OFDM 16QAM	1	1	21.19	21.25	21.39	22.50
	CP-OFDM 64QAM	1	1	19.76	19.70	19.84	21.00
	CP-OFDM 256QAM	1	1	16.37	16.35	16.51	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166800/834	167300/836.5	167800/839	
20MHz	DFT-s-OFDM BPSK	1	1	22.19	22.29	22.38	23.50
		1	104	22.33	22.33	22.31	23.50
		50	25	22.47	22.41	22.42	23.50
		100	0	22.30	22.40	22.40	23.50
	DFT-s-OFDM QPSK	1	1	22.15	22.31	22.40	23.50
		1	104	22.38	22.36	22.32	23.50
		50	25	22.83	22.42	22.43	23.50
		100	0	21.86	21.92	21.91	23.50
	DFT-s-OFDM 16QAM	1	1	21.59	21.55	21.63	23.00
		50	25	22.13	21.93	21.94	23.00
	DFT-s-OFDM 64QAM	1	1	19.97	20.13	20.20	21.50
		50	25	20.66	20.46	20.46	21.50
	DFT-s-OFDM 256QAM	1	1	18.98	18.88	18.95	20.00
		50	25	18.43	18.57	18.62	20.00
	CP-OFDM QPSK	1	1	21.37	21.39	21.46	23.00
	CP-OFDM 16QAM	1	1	21.15	21.15	21.23	22.50
	CP-OFDM 64QAM	1	1	19.78	19.62	19.68	21.00
	CP-OFDM 256QAM	1	1	16.31	16.35	16.41	18.00

n48 SA							
Normal Power--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				637000/3555	641666/3624.99	646332/3694.98	
10MHz	DFT-s-OFDM BPSK	1	1	22.18	22.22	22.96	24.00
		1	22	22.37	22.06	23.07	24.00
		12	6	22.61	22.05	22.11	24.00
		24	0	21.93	21.85	22.04	23.00
	DFT-s-OFDM QPSK	1	1	22.22	22.67	22.61	24.00
		1	22	22.30	22.22	22.32	24.00
		12	6	23.22	22.23	22.51	24.00
		24	0	21.36	21.94	21.63	23.00
	DFT-s-OFDM 16QAM	1	1	21.11	22.04	21.61	22.50
		12	6	22.04	21.19	21.11	22.50
	DFT-s-OFDM 64QAM	1	1	19.66	19.78	19.69	21.50
		12	6	20.28	20.28	19.57	21.50
	DFT-s-OFDM 256QAM	1	1	17.94	18.60	18.89	19.50
		12	6	18.82	18.26	17.74	19.50
	CP-OFDM QPSK	1	1	21.12	21.58	21.72	22.50
	CP-OFDM 16QAM	1	1	20.72	20.94	21.26	22.00
	CP-OFDM 64QAM	1	1	19.00	19.19	19.21	20.50
	CP-OFDM 256QAM	1	1	15.64	16.04	16.52	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
15MHz	DFT-s-OFDM BPSK	1	1	22.02	22.32	23.14	24.00
		1	36	22.45	22.15	23.01	24.00
		18	9	22.75	22.19	22.20	24.00
		36	0	22.01	21.75	22.20	23.00
	DFT-s-OFDM QPSK	1	1	22.20	22.59	22.53	24.00
		1	36	22.05	22.28	22.36	24.00
		18	9	23.38	22.37	22.55	24.00
		36	0	21.54	21.76	21.41	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.94	21.53	22.50
		18	9	22.16	21.13	21.15	22.50
	DFT-s-OFDM 64QAM	1	1	19.60	19.62	19.55	21.50
		18	9	20.10	20.22	19.61	21.50
	DFT-s-OFDM 256QAM	1	1	18.12	18.66	19.03	19.50
		18	9	18.82	18.30	17.76	19.50
	CP-OFDM QPSK	1	1	20.90	21.36	21.66	22.50
	CP-OFDM 16QAM	1	1	20.52	20.86	21.08	22.00
	CP-OFDM 64QAM	1	1	18.94	19.19	19.25	20.50
	CP-OFDM 256QAM	1	1	15.78	16.08	16.32	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637334/3560.01	641666/3624.99	646000/3690	
20MHz	DFT-s-OFDM BPSK	1	1	22.06	22.28	23.10	24.00
		1	49	22.55	22.13	22.85	24.00
		25	12	22.65	22.35	22.12	24.00
		50	0	22.17	21.85	22.12	23.00
	DFT-s-OFDM QPSK	1	1	22.52	22.63	22.77	24.00
		1	49	22.21	22.48	22.50	24.00
		25	12	23.12	22.51	22.67	24.00
		50	0	21.52	21.58	21.55	23.00
	DFT-s-OFDM 16QAM	1	1	21.11	21.78	21.63	22.50
		25	12	21.86	21.41	21.23	22.50
	DFT-s-OFDM 64QAM	1	1	19.74	19.54	20.09	21.50
		25	12	20.20	20.26	19.71	21.50
	DFT-s-OFDM 256QAM	1	1	18.52	18.70	19.35	19.50
		25	12	18.68	18.38	17.78	19.50
	CP-OFDM QPSK	1	1	20.88	21.14	21.30	22.50
	CP-OFDM 16QAM	1	1	20.80	20.92	20.92	22.00
	CP-OFDM 64QAM	1	1	19.04	19.39	19.37	20.50
	CP-OFDM 256QAM	1	1	15.72	15.98	16.18	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637668/3565.02	641666/3624.99	645666/3684.99	
30MHz	DFT-s-OFDM BPSK	1	1	22.11	22.44	23.10	24.00
		1	76	22.43	22.13	22.73	24.00
		36	18	22.75	22.39	22.10	24.00
		75	0	21.87	21.71	22.08	23.00
	DFT-s-OFDM QPSK	1	1	22.36	22.57	22.57	24.00
		1	76	22.16	22.12	22.36	24.00
		36	18	23.04	22.51	22.47	24.00
		75	0	21.54	21.56	21.39	23.00
	DFT-s-OFDM 16QAM	1	1	20.93	21.74	21.41	22.50
		36	18	21.78	21.31	21.19	22.50
	DFT-s-OFDM 64QAM	1	1	19.56	19.62	20.08	21.50
		36	18	20.18	20.00	19.77	21.50
	DFT-s-OFDM 256QAM	1	1	18.52	18.62	19.13	19.50
		36	18	18.50	18.12	17.68	19.50
	CP-OFDM QPSK	1	1	20.96	21.14	21.38	22.50
	CP-OFDM 16QAM	1	1	20.48	20.78	21.06	22.00
	CP-OFDM 64QAM	1	1	18.86	19.37	19.23	20.50
	CP-OFDM 256QAM	1	1	15.62	16.06	16.04	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638000/3570	641666/3624.99	645332/3679.98	
40MHz	DFT-s-OFDM	1	1	22.30	22.38	23.06	24.00

	BPSK	1	104	22.51	22.19	22.65	24.00
		50	25	22.81	22.21	22.04	24.00
		100	0	22.17	21.79	22.12	23.00
	DFT-s-OFDM QPSK	1	1	22.36	22.85	22.49	24.00
		1	104	22.11	22.52	22.56	24.00
		50	25	23.30	22.47	22.69	24.00
		100	0	21.30	21.60	21.53	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.90	21.63	22.50
		50	25	21.86	21.29	21.29	22.50
	DFT-s-OFDM 64QAM	1	1	19.76	19.58	19.59	21.50
		50	25	19.98	20.16	19.67	21.50
	DFT-s-OFDM 256QAM	1	1	18.34	18.54	19.13	19.50
		50	25	18.72	18.34	17.72	19.50
	CP-OFDM QPSK	1	1	20.98	21.30	21.44	22.50
	CP-OFDM 16QAM	1	1	20.74	20.82	20.90	22.00
	CP-OFDM 64QAM	1	1	18.94	19.39	19.47	20.50
	CP-OFDM 256QAM	1	1	15.86	16.00	16.12	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638334/3575.01	641666/3624.99	645000/3675	
50MHz	DFT-s-OFDM BPSK	1	1	22.08	22.36	23.00	24.00
		1	131	22.53	22.05	22.81	24.00
		64	32	22.75	22.37	22.02	24.00
		128	0	22.03	21.91	22.04	23.00
	DFT-s-OFDM QPSK	1	1	22.44	22.73	22.67	24.00
		1	131	22.07	22.32	22.56	24.00
		64	32	23.10	22.43	22.55	24.00
		128	0	21.48	21.46	21.55	23.00
	DFT-s-OFDM 16QAM	1	1	21.11	21.70	21.53	22.50
		64	32	21.94	21.35	21.15	22.50
	DFT-s-OFDM 64QAM	1	1	19.60	19.62	19.70	21.50
		64	32	20.16	20.12	19.67	21.50
	DFT-s-OFDM 256QAM	1	1	18.42	18.56	19.23	19.50
		64	32	18.62	18.22	17.66	19.50
	CP-OFDM QPSK	1	1	20.88	21.10	21.38	22.50
	CP-OFDM 16QAM	1	1	20.66	20.92	21.02	22.00
	CP-OFDM 64QAM	1	1	19.00	19.29	19.41	20.50
	CP-OFDM 256QAM	1	1	15.68	16.06	16.14	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638668/3580.02	641666/3624.99	644666/3669.99	
60MHz	DFT-s-OFDM BPSK	1	1	22.32	22.78	22.76	24.00
		1	160	22.47	22.19	22.69	24.00
		81	40	23.03	22.59	22.20	24.00
		162	0	22.13	22.11	21.84	23.00

	DFT-s-OFDM QPSK	1	1	22.24	22.67	22.83	24.00
		1	160	22.43	22.20	22.62	24.00
		81	40	23.02	22.63	22.31	24.00
		162	0	21.56	21.48	21.49	23.00
	DFT-s-OFDM 16QAM	1	1	20.93	21.50	21.47	22.50
		81	40	21.80	21.57	21.29	22.50
	DFT-s-OFDM 64QAM	1	1	19.52	19.90	19.63	21.50
		81	40	20.46	20.14	19.85	21.50
	DFT-s-OFDM 256QAM	1	1	18.26	18.72	18.99	19.50
		81	40	18.52	17.98	17.70	19.50
	CP-OFDM QPSK	1	1	20.94	21.26	21.34	22.50
	CP-OFDM 16QAM	1	1	20.52	21.10	21.20	22.00
Bandwidth	CP-OFDM 64QAM	1	1	19.12	19.39	19.49	20.50
	CP-OFDM 256QAM	1	1	15.82	16.10	16.34	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639000/3585	641666/3624.99	644332/3664.98	
70MHz	DFT-s-OFDM BPSK	1	1	22.22	22.46	22.86	24.00
		1	187	22.53	22.27	22.61	24.00
		92	45	22.77	22.45	22.22	24.00
		180	0	21.95	22.09	21.90	23.00
	DFT-s-OFDM QPSK	1	1	22.06	22.65	22.63	24.00
		1	187	22.19	22.26	22.66	24.00
		92	45	22.80	22.43	22.31	24.00
		180	0	21.70	21.62	21.43	23.00
	DFT-s-OFDM 16QAM	1	1	20.89	21.36	21.35	22.50
		92	46	21.84	21.49	21.29	22.50
	DFT-s-OFDM 64QAM	1	1	19.72	20.06	19.68	21.50
		92	46	20.24	20.00	19.65	21.50
	DFT-s-OFDM 256QAM	1	1	18.30	18.74	19.17	19.50
		92	46	18.18	17.86	17.80	19.50
	CP-OFDM QPSK	1	1	20.86	21.24	21.24	22.50
	CP-OFDM 16QAM	1	1	20.54	21.02	21.10	22.00
	CP-OFDM 64QAM	1	1	19.08	19.29	19.29	20.50
	CP-OFDM 256QAM	1	1	15.86	15.94	16.14	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639334/3590.01	641666/3624.99	644000/3660	
80MHz	DFT-s-OFDM BPSK	1	1	22.48	22.68	22.98	24.00
		1	215	22.47	22.27	22.71	24.00
		108	54	22.73	22.57	22.26	24.00
		216	0	22.05	22.23	21.94	23.00
	DFT-s-OFDM QPSK	1	1	22.24	22.47	22.89	24.00
		1	215	22.23	22.34	22.52	24.00
		108	54	22.94	22.69	22.37	24.00

		216	0	21.76	21.60	21.57	23.00
	DFT-s-OFDM 16QAM	1	1	20.91	21.36	21.45	22.50
		108	54	22.04	21.43	21.15	22.50
	DFT-s-OFDM 64QAM	1	1	19.68	19.82	19.71	21.50
		108	54	20.46	20.18	19.79	21.50
	DFT-s-OFDM 256QAM	1	1	18.30	18.72	19.05	19.50
		108	54	18.48	17.92	17.68	19.50
	CP-OFDM QPSK	1	1	21.06	21.30	21.34	22.50
	CP-OFDM 16QAM	1	1	20.76	21.04	21.16	22.00
	CP-OFDM 64QAM	1	1	19.18	19.41	19.59	20.50
	CP-OFDM 256QAM	1	1	15.68	16.24	16.08	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639668/3595.02	641666/3624.99	643666/3654.99	
90MHz	DFT-s-OFDM BPSK	1	1	22.24	22.66	22.96	24.00
		1	243	22.47	22.21	22.61	24.00
		120	60	22.89	22.47	22.44	24.00
		243	0	22.05	21.95	21.98	23.00
	DFT-s-OFDM QPSK	1	1	22.42	22.79	22.69	24.00
		1	243	22.39	22.28	22.68	24.00
		120	60	22.78	22.53	22.35	24.00
		243	0	21.50	21.44	21.37	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.52	21.63	22.50
		120	60	21.80	21.43	21.13	22.50
	DFT-s-OFDM 64QAM	1	1	19.52	20.06	19.73	21.50
		120	60	20.40	20.08	19.81	21.50
	DFT-s-OFDM 256QAM	1	1	18.30	18.56	19.15	19.50
		120	60	18.26	18.16	17.80	19.50
	CP-OFDM QPSK	1	1	20.98	21.26	21.46	22.50
	CP-OFDM 16QAM	1	1	20.50	21.06	21.18	22.00
	CP-OFDM 64QAM	1	1	19.08	19.55	19.35	20.50
	CP-OFDM 256QAM	1	1	15.66	16.14	16.18	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				640000/3600	641666/3624.99	643332/3649.98	
100MHz	DFT-s-OFDM BPSK	1	1	22.28	22.66	22.78	24.00
		1	271	22.43	22.23	22.69	24.00
		135	67	22.87	22.53	22.26	24.00
		270	0	22.15	22.03	21.94	23.00
	DFT-s-OFDM QPSK	1	1	22.26	22.65	22.77	24.00
		1	271	22.27	22.24	22.66	24.00
		135	67	22.86	22.53	22.25	24.00
		270	0	21.62	21.52	21.45	23.00
	DFT-s-OFDM 16QAM	1	1	21.03	21.42	21.53	22.50
		135	67	21.84	21.51	21.25	22.50

	DFT-s-OFDM 64QAM	1	1	19.62	19.98	19.55	21.50
		135	67	20.32	19.98	19.73	21.50
	DFT-s-OFDM 256QAM	1	1	18.28	18.66	19.09	19.50
		135	67	18.36	18.06	17.78	19.50
	CP-OFDM QPSK	1	1	20.84	21.24	21.36	22.50
	CP-OFDM 16QAM	1	1	20.60	21.00	21.10	22.00
	CP-OFDM 64QAM	1	1	19.00	19.37	19.47	20.50
	CP-OFDM 256QAM	1	1	15.78	16.14	16.22	17.50

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Receiver off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				637000/3555	641666/3624.99	646332/3694.98	
10MHz	DFT-s-OFDM BPSK	1	1	21.66	21.88	21.46	23.00
		1	22	21.99	21.47	21.83	23.00
		12	6	21.75	21.81	21.38	23.00
		24	0	21.99	21.49	21.86	22.50
	DFT-s-OFDM QPSK	1	1	21.36	21.85	22.07	23.00
		1	22	21.40	21.50	21.76	23.00
		12	6	21.88	21.81	21.37	23.00
		24	0	21.30	21.18	21.13	22.50
	DFT-s-OFDM 16QAM	1	1	21.07	21.72	21.65	22.50
		12	6	21.64	21.63	21.41	22.50
	DFT-s-OFDM 64QAM	1	1	20.33	20.38	19.89	21.50
		12	6	20.44	20.56	19.69	21.50
	DFT-s-OFDM 256QAM	1	1	18.08	18.94	19.11	19.50
		12	6	18.50	18.38	17.94	19.50
	CP-OFDM QPSK	1	1	21.06	21.58	21.98	22.50
	CP-OFDM 16QAM	1	1	20.56	20.94	20.90	22.00
	CP-OFDM 64QAM	1	1	18.76	19.25	19.63	20.50
	CP-OFDM 256QAM	1	1	15.86	15.92	16.38	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637168/3557.52	641666/3624.99	646166/3692.49	
15MHz	DFT-s-OFDM BPSK	1	1	21.62	21.82	21.58	23.00
		1	36	21.91	21.25	21.55	23.00
		18	9	21.67	21.75	21.44	23.00
		36	0	21.81	21.55	21.86	22.50
	DFT-s-OFDM QPSK	1	1	21.32	21.75	21.91	23.00
		1	36	21.11	21.42	21.86	23.00
		18	9	21.76	21.71	21.43	23.00
		36	0	21.30	21.14	20.95	22.50
	DFT-s-OFDM 16QAM	1	1	20.93	21.64	21.49	22.50
		18	9	21.66	21.67	21.37	22.50

	DFT-s-OFDM 64QAM	1	1	20.31	20.26	19.95	21.50
		18	9	20.44	20.58	19.71	21.50
	DFT-s-OFDM 256QAM	1	1	17.76	18.96	19.19	19.50
		18	9	18.46	18.10	17.82	19.50
	CP-OFDM QPSK	1	1	20.84	21.60	21.66	22.50
	CP-OFDM 16QAM	1	1	20.56	20.92	21.04	22.00
	CP-OFDM 64QAM	1	1	18.66	19.15	19.41	20.50
	CP-OFDM 256QAM	1	1	15.92	15.94	16.22	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637334/3560.01	641666/3624.99	646000/3690	
20MHz	DFT-s-OFDM BPSK	1	1	21.70	21.98	21.58	23.00
		1	49	22.15	21.51	21.95	23.00
		25	12	21.97	21.69	21.50	23.00
		50	0	22.03	21.39	21.76	22.50
	DFT-s-OFDM QPSK	1	1	21.06	21.81	21.85	23.00
		1	49	21.32	21.16	21.92	23.00
		25	12	22.04	21.71	21.27	23.00
		50	0	21.18	21.36	21.31	22.50
	DFT-s-OFDM 16QAM	1	1	20.81	21.80	21.61	22.50
		25	12	21.68	21.73	21.45	22.50
	DFT-s-OFDM 64QAM	1	1	20.23	20.38	19.77	21.50
		25	12	20.66	20.52	19.71	21.50
	DFT-s-OFDM 256QAM	1	1	17.78	19.00	19.23	19.50
		25	12	18.40	18.42	18.08	19.50
	CP-OFDM QPSK	1	1	21.04	21.74	22.02	22.50
	CP-OFDM 16QAM	1	1	20.56	20.94	20.84	22.00
	CP-OFDM 64QAM	1	1	18.82	19.21	19.69	20.50
	CP-OFDM 256QAM	1	1	16.06	15.98	16.38	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637668/3565.02	641666/3624.99	645666/3684.99	
30MHz	DFT-s-OFDM BPSK	1	1	21.72	22.06	21.48	23.00
		1	76	21.91	21.59	21.71	23.00
		36	18	21.73	21.93	21.32	23.00
		75	0	21.97	21.59	21.82	22.50
	DFT-s-OFDM QPSK	1	1	21.12	21.83	21.97	23.00
		1	76	21.15	21.52	21.86	23.00
		36	18	21.98	21.89	21.35	23.00
		75	0	21.28	21.32	21.03	22.50
	DFT-s-OFDM 16QAM	1	1	21.01	21.56	21.43	22.50
		36	18	21.76	21.67	21.57	22.50
	DFT-s-OFDM 64QAM	1	1	20.35	20.26	19.87	21.50
		36	18	20.50	20.54	19.75	21.50
	DFT-s-OFDM	1	1	17.88	18.90	19.33	19.50

	256QAM	36	18	18.56	18.26	17.90	19.50
	CP-OFDM QPSK	1	1	20.88	21.64	21.98	22.50
	CP-OFDM 16QAM	1	1	20.60	21.04	20.94	22.00
	CP-OFDM 64QAM	1	1	18.86	19.21	19.67	20.50
	CP-OFDM 256QAM	1	1	15.86	16.02	16.44	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638000/3570	641666/3624.99	645332/3679.98	
40MHz	DFT-s-OFDM BPSK	1	1	21.68	21.92	21.56	23.00
		1	104	21.99	21.41	21.75	23.00
		50	25	21.77	21.83	21.40	23.00
		100	0	21.99	21.57	21.94	22.50
	DFT-s-OFDM QPSK	1	1	21.10	21.71	22.03	23.00
		1	104	21.05	21.34	21.82	23.00
		50	25	21.96	21.83	21.43	23.00
		100	0	21.20	21.18	21.09	22.50
	DFT-s-OFDM 16QAM	1	1	20.93	21.64	21.55	22.50
		50	25	21.70	21.73	21.41	22.50
	DFT-s-OFDM 64QAM	1	1	20.35	20.22	19.95	21.50
		50	25	20.54	20.52	19.71	21.50
	DFT-s-OFDM 256QAM	1	1	17.94	18.92	19.17	19.50
		50	25	18.46	18.24	17.94	19.50
	CP-OFDM QPSK	1	1	21.00	21.58	21.86	22.50
	CP-OFDM 16QAM	1	1	20.66	20.98	20.96	22.00
	CP-OFDM 64QAM	1	1	18.86	19.33	19.51	20.50
	CP-OFDM 256QAM	1	1	15.86	15.98	16.26	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638334/3575.01	641666/3624.99	645000/3675	
50MHz	DFT-s-OFDM BPSK	1	1	21.66	21.70	21.68	23.00
		1	131	21.97	21.41	22.01	23.00
		64	32	21.73	21.81	21.34	23.00
		128	0	21.83	21.71	21.80	22.50
	DFT-s-OFDM QPSK	1	1	21.06	21.37	22.21	23.00
		1	131	21.19	21.54	21.68	23.00
		64	32	21.88	22.03	21.27	23.00
		128	0	21.28	21.08	21.13	22.50
	DFT-s-OFDM 16QAM	1	1	20.99	21.44	21.51	22.50
		64	32	21.96	21.79	21.23	22.50
	DFT-s-OFDM 64QAM	1	1	19.76	20.04	19.90	21.50
		64	32	20.58	20.30	19.53	21.50
	DFT-s-OFDM 256QAM	1	1	18.22	18.82	19.35	19.50
		64	32	18.36	18.18	18.00	19.50
	CP-OFDM QPSK	1	1	21.00	21.46	21.84	22.50
	CP-OFDM 16QAM	1	1	20.66	20.98	21.28	22.00

	CP-OFDM 64QAM	1	1	18.94	19.57	19.73	20.50
	CP-OFDM 256QAM	1	1	15.94	16.02	16.06	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638668/3580.02	641666/3624.99	644666/3669.99	
60MHz	DFT-s-OFDM BPSK	1	1	21.48	21.82	21.50	23.00
		1	160	21.85	21.41	21.89	23.00
		81	40	21.85	21.93	21.38	23.00
		162	0	21.89	21.57	21.72	22.50
	DFT-s-OFDM QPSK	1	1	21.12	21.49	22.03	23.00
		1	160	21.01	21.44	21.78	23.00
		81	40	21.88	21.87	21.21	23.00
		162	0	21.18	21.18	21.01	22.50
	DFT-s-OFDM 16QAM	1	1	20.95	21.54	21.63	22.50
		81	40	21.84	21.73	21.21	22.50
	DFT-s-OFDM 64QAM	1	1	19.68	20.16	19.55	21.50
		81	40	20.46	20.34	19.63	21.50
	DFT-s-OFDM 256QAM	1	1	18.12	18.88	19.17	19.50
		81	40	18.40	18.22	17.90	19.50
	CP-OFDM QPSK	1	1	20.94	21.48	21.68	22.50
	CP-OFDM 16QAM	1	1	20.54	20.98	21.10	22.00
	CP-OFDM 64QAM	1	1	18.90	19.45	19.61	20.50
	CP-OFDM 256QAM	1	1	15.90	15.98	16.14	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639000/3585	641666/3624.99	644332/3664.98	
70MHz	DFT-s-OFDM BPSK	1	1	21.46	21.66	21.76	23.00
		1	187	21.47	21.47	21.91	23.00
		92	45	22.05	21.63	21.28	23.00
		180	0	21.75	21.75	21.66	22.50
	DFT-s-OFDM QPSK	1	1	21.32	21.87	22.03	23.00
		1	187	21.39	21.30	21.92	23.00
		92	45	21.94	21.69	21.35	23.00
		180	0	21.28	21.10	21.09	22.50
	DFT-s-OFDM 16QAM	1	1	21.05	21.68	21.63	22.50
		92	46	21.82	21.53	21.43	22.50
	DFT-s-OFDM 64QAM	1	1	19.66	20.02	19.61	21.50
		92	46	20.48	20.14	19.73	21.50
	DFT-s-OFDM 256QAM	1	1	18.36	18.94	19.19	19.50
		92	46	18.44	18.24	17.78	19.50
	CP-OFDM QPSK	1	1	21.06	21.36	21.50	22.50
	CP-OFDM 16QAM	1	1	20.78	21.20	21.04	22.00
	CP-OFDM 64QAM	1	1	19.20	19.55	19.61	20.50
	CP-OFDM 256QAM	1	1	15.82	16.36	16.12	17.50
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up

		allocation		639334/3590.01	641666/3624.99	644000/3660	
80MHz	DFT-s-OFDM BPSK	1	1	21.36	21.64	21.58	23.00
		1	215	21.33	21.39	21.75	23.00
		108	54	21.81	21.71	21.28	23.00
		216	0	21.71	21.67	21.46	22.50
	DFT-s-OFDM QPSK	1	1	21.20	21.83	21.69	23.00
		1	215	21.33	21.42	21.66	23.00
		108	54	21.74	21.51	21.25	23.00
		216	0	21.04	20.94	21.05	22.50
	DFT-s-OFDM 16QAM	1	1	20.95	21.60	21.55	22.50
		108	54	21.74	21.65	21.21	22.50
	DFT-s-OFDM 64QAM	1	1	19.80	20.04	19.73	21.50
		108	54	20.24	20.12	19.69	21.50
	DFT-s-OFDM 256QAM	1	1	18.42	18.80	19.03	19.50
		108	54	18.36	18.34	17.80	19.50
	CP-OFDM QPSK	1	1	20.78	21.36	21.38	22.50
	CP-OFDM 16QAM	1	1	20.80	21.10	21.18	22.00
	CP-OFDM 64QAM	1	1	19.14	19.57	19.27	20.50
	CP-OFDM 256QAM	1	1	15.90	16.28	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639668/3595.02	641666/3624.99	643666/3654.99	
90MHz	DFT-s-OFDM BPSK	1	1	21.58	21.58	21.84	23.00
		1	243	21.61	21.63	21.79	23.00
		120	60	22.11	21.67	21.32	23.00
		243	0	21.63	21.85	21.70	22.50
	DFT-s-OFDM QPSK	1	1	21.48	21.67	21.73	23.00
		1	243	21.49	21.44	21.66	23.00
		120	60	21.86	21.77	21.55	23.00
		243	0	21.32	21.22	20.83	22.50
	DFT-s-OFDM 16QAM	1	1	21.23	21.34	21.81	22.50
		120	60	21.88	21.75	21.17	22.50
	DFT-s-OFDM 64QAM	1	1	19.80	20.22	19.61	21.50
		120	60	20.34	20.20	19.67	21.50
	DFT-s-OFDM 256QAM	1	1	18.60	18.98	19.37	19.50
		120	60	18.50	18.12	17.90	19.50
	CP-OFDM QPSK	1	1	20.90	21.34	21.48	22.50
	CP-OFDM 16QAM	1	1	20.64	21.20	20.92	22.00
	CP-OFDM 64QAM	1	1	19.20	19.49	19.45	20.50
	CP-OFDM 256QAM	1	1	16.00	16.42	16.40	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				640000/3600	641666/3624.99	643332/3649.98	
100MHz	DFT-s-OFDM BPSK	1	1	21.56	21.66	21.80	23.00
		1	271	21.61	21.61	21.91	23.00

		135	67	22.09	21.75	21.36	23.00
		270	0	21.81	21.67	21.72	22.50
	DFT-s-OFDM QPSK	1	1	21.44	21.67	21.97	23.00
		1	271	21.21	21.48	21.86	23.00
		135	67	21.90	21.77	21.59	23.00
		270	0	21.10	21.10	20.93	22.50
	DFT-s-OFDM 16QAM	1	1	21.17	21.44	21.73	22.50
		135	67	21.74	21.49	21.47	22.50
	DFT-s-OFDM 64QAM	1	1	19.76	20.02	19.65	21.50
		135	67	20.50	20.12	19.93	21.50
	DFT-s-OFDM 256QAM	1	1	18.36	18.90	19.25	19.50
		135	67	18.34	18.26	17.84	19.50
	CP-OFDM QPSK	1	1	20.84	21.10	21.38	22.50
	CP-OFDM 16QAM	1	1	20.86	21.22	21.12	22.00
	CP-OFDM 64QAM	1	1	19.16	19.65	19.65	20.50
	CP-OFDM 256QAM	1	1	15.92	16.16	16.18	17.50

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Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				637000/3555	641666/3624.99	646332/3694.98	
10MHz	DFT-s-OFDM BPSK	1	1	19.30	19.82	19.52	21.00
		1	22	19.22	19.16	19.32	21.00
		12	6	19.82	19.64	19.64	21.00
		24	0	19.58	19.56	19.30	21.00
	DFT-s-OFDM QPSK	1	1	19.06	19.64	19.74	21.00
		1	22	19.32	19.40	19.31	21.00
		12	6	19.76	19.27	19.20	21.00
		24	0	19.35	19.29	19.53	21.00
	DFT-s-OFDM 16QAM	1	1	19.85	19.31	19.67	21.00
		12	6	19.19	19.53	19.57	21.00
	DFT-s-OFDM 64QAM	1	1	19.30	19.44	19.54	21.00
		12	6	19.52	19.30	19.62	21.00
	DFT-s-OFDM 256QAM	1	1	18.72	18.62	18.04	19.50
		12	6	18.03	17.99	18.23	19.50
	CP-OFDM QPSK	1	1	19.21	19.87	19.59	21.00
	CP-OFDM 16QAM	1	1	19.99	20.47	19.65	21.00
	CP-OFDM 64QAM	1	1	19.27	19.41	19.41	20.50
	CP-OFDM 256QAM	1	1	16.01	15.95	16.29	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637168/3557.52	641666/3624.99	646166/3692.49	
15MHz	DFT-s-OFDM BPSK	1	1	19.16	19.72	19.36	21.00
		1	36	19.25	19.16	19.48	21.00

		18	9	19.82	19.58	19.98	21.00
		36	0	19.74	19.36	19.16	21.00
	DFT-s-OFDM QPSK	1	1	19.18	19.88	19.58	21.00
		1	36	19.15	19.17	19.65	21.00
		18	9	19.52	19.29	19.50	21.00
		36	0	19.53	19.19	19.37	21.00
	DFT-s-OFDM 16QAM	1	1	19.75	19.15	19.75	21.00
		18	9	19.03	19.73	19.61	21.00
	DFT-s-OFDM 64QAM	1	1	19.14	19.32	19.54	21.00
		18	9	19.34	19.16	19.48	21.00
	DFT-s-OFDM 256QAM	1	1	18.84	18.50	18.14	19.50
		18	9	18.05	18.17	18.37	19.50
	CP-OFDM QPSK	1	1	19.27	20.21	19.89	21.00
	CP-OFDM 16QAM	1	1	20.27	20.25	19.51	21.00
	CP-OFDM 64QAM	1	1	19.51	19.31	19.73	20.50
	CP-OFDM 256QAM	1	1	15.89	16.09	16.25	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637334/3560.01	641666/3624.99	646000/3690	
20MHz	DFT-s-OFDM BPSK	1	1	19.30	19.78	19.42	21.00
		1	49	19.20	19.14	19.30	21.00
		25	12	19.80	19.62	19.84	21.00
		50	0	19.78	19.54	19.22	21.00
	DFT-s-OFDM QPSK	1	1	19.06	19.66	19.76	21.00
		1	49	19.35	19.42	19.49	21.00
		25	12	19.66	19.21	19.36	21.00
		50	0	19.49	19.31	19.49	21.00
	DFT-s-OFDM 16QAM	1	1	19.81	19.27	19.71	21.00
		25	12	19.11	19.55	19.61	21.00
	DFT-s-OFDM 64QAM	1	1	19.32	19.40	19.64	21.00
		25	12	19.48	19.34	19.58	21.00
	DFT-s-OFDM 256QAM	1	1	18.72	18.60	18.18	19.50
		25	12	18.15	18.09	18.15	19.50
	CP-OFDM QPSK	1	1	19.33	20.03	19.75	21.00
	CP-OFDM 16QAM	1	1	20.13	20.39	19.55	21.00
	CP-OFDM 64QAM	1	1	19.39	19.39	19.55	20.50
	CP-OFDM 256QAM	1	1	15.99	15.99	16.27	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637668/3565.02	641666/3624.99	645666/3684.99	
30MHz	DFT-s-OFDM BPSK	1	1	19.36	19.58	19.46	21.00
		1	76	19.10	19.05	19.18	21.00
		36	18	19.76	19.74	19.44	21.00
		75	0	19.58	19.50	19.46	21.00
	DFT-s-OFDM	1	1	19.14	19.68	19.82	21.00

	QPSK	1	76	19.09	19.17	19.69	21.00
		36	18	19.88	19.59	19.30	21.00
		75	0	19.87	19.49	19.49	21.00
	DFT-s-OFDM 16QAM	1	1	19.77	19.45	19.97	21.00
		36	18	19.03	19.69	19.57	21.00
	DFT-s-OFDM 64QAM	1	1	19.48	19.58	19.52	21.00
		36	18	19.68	19.28	19.64	21.00
	DFT-s-OFDM 256QAM	1	1	18.76	18.60	18.50	19.50
		36	18	18.05	18.21	18.39	19.50
	CP-OFDM QPSK	1	1	19.59	19.67	19.63	21.00
	CP-OFDM 16QAM	1	1	20.09	20.01	19.97	21.00
	CP-OFDM 64QAM	1	1	19.11	19.53	19.49	20.50
	CP-OFDM 256QAM	1	1	16.03	16.07	15.99	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638000/3570	641666/3624.99	645332/3679.98	
40MHz	DFT-s-OFDM BPSK	1	1	19.12	19.40	19.60	21.00
		1	104	19.08	19.10	19.18	21.00
		50	25	19.68	19.72	19.56	21.00
		100	0	19.50	19.44	19.28	21.00
	DFT-s-OFDM QPSK	1	1	19.02	19.64	19.80	21.00
		1	104	19.11	19.19	19.69	21.00
		50	25	19.82	19.51	19.12	21.00
		100	0	19.71	19.43	19.29	21.00
	DFT-s-OFDM 16QAM	1	1	19.73	19.29	19.87	21.00
		50	25	19.03	19.37	19.29	21.00
	DFT-s-OFDM 64QAM	1	1	19.40	19.48	19.52	21.00
		50	25	19.50	19.16	19.36	21.00
	DFT-s-OFDM 256QAM	1	1	18.64	18.50	18.30	19.50
		50	25	18.01	18.09	18.25	19.50
	CP-OFDM QPSK	1	1	19.61	19.67	19.57	21.00
	CP-OFDM 16QAM	1	1	19.95	19.91	19.81	21.00
	CP-OFDM 64QAM	1	1	19.13	19.49	19.45	20.50
	CP-OFDM 256QAM	1	1	15.83	16.03	16.09	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638334/3575.01	641666/3624.99	645000/3675	
50MHz	DFT-s-OFDM BPSK	1	1	19.16	19.60	19.36	21.00
		1	131	19.36	19.06	19.10	21.00
		64	32	19.76	19.76	19.40	21.00
		128	0	19.42	19.64	19.18	21.00
	DFT-s-OFDM QPSK	1	1	19.26	19.72	19.98	21.00
		1	131	19.27	19.31	19.61	21.00
		64	32	19.64	19.61	19.26	21.00
		128	0	19.65	19.47	19.59	21.00

	DFT-s-OFDM 16QAM	1	1	19.49	19.31	20.09	21.00
		64	32	19.15	19.45	19.45	21.00
	DFT-s-OFDM 64QAM	1	1	19.42	19.68	19.56	21.00
		64	32	19.60	19.52	19.42	21.00
	DFT-s-OFDM 256QAM	1	1	18.66	18.74	18.40	19.50
		64	32	18.07	18.09	18.21	19.50
	CP-OFDM QPSK	1	1	19.51	19.67	19.55	21.00
	CP-OFDM 16QAM	1	1	19.89	20.17	19.91	21.00
	CP-OFDM 64QAM	1	1	19.13	19.33	19.43	20.50
	CP-OFDM 256QAM	1	1	15.93	15.99	16.01	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
60MHz	DFT-s-OFDM BPSK	1	1	19.22	19.76	19.58	21.00
		1	160	19.08	19.12	19.20	21.00
		81	40	19.98	19.64	19.70	21.00
		162	0	19.78	19.60	19.24	21.00
	DFT-s-OFDM QPSK	1	1	19.26	19.62	19.90	21.00
		1	160	19.24	19.35	19.75	21.00
		81	40	19.78	19.59	19.30	21.00
		162	0	19.83	19.55	19.33	21.00
	DFT-s-OFDM 16QAM	1	1	19.65	19.31	19.81	21.00
		81	40	19.17	19.59	19.55	21.00
	DFT-s-OFDM 64QAM	1	1	19.62	19.66	19.64	21.00
		81	40	19.76	19.32	19.64	21.00
	DFT-s-OFDM 256QAM	1	1	18.54	18.54	18.52	19.50
		81	40	18.03	18.03	18.15	19.50
	CP-OFDM QPSK	1	1	19.67	19.87	19.75	21.00
	CP-OFDM 16QAM	1	1	20.11	20.05	20.01	21.00
	CP-OFDM 64QAM	1	1	19.15	19.59	19.55	20.50
	CP-OFDM 256QAM	1	1	15.99	15.95	16.19	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
70MHz	DFT-s-OFDM BPSK	1	1	19.28	19.60	19.54	21.00
		1	187	19.20	19.06	19.24	21.00
		92	45	19.80	19.64	19.54	21.00
		180	0	19.60	19.52	19.36	21.00
	DFT-s-OFDM QPSK	1	1	19.10	19.66	19.78	21.00
		1	187	19.11	19.21	19.79	21.00
		92	45	19.74	19.45	19.24	21.00
		180	0	19.71	19.41	19.39	21.00
	DFT-s-OFDM 16QAM	1	1	19.65	19.39	19.89	21.00
		92	46	19.13	19.53	19.45	21.00
	DFT-s-OFDM	1	1	19.46	19.58	19.54	21.00

	64QAM	92	46	19.58	19.30	19.56	21.00
	DFT-s-OFDM	1	1	18.62	18.54	18.48	19.50
	256QAM	92	46	18.15	18.13	18.23	19.50
	CP-OFDM QPSK	1	1	19.61	19.77	19.57	21.00
	CP-OFDM 16QAM	1	1	19.95	20.09	19.83	21.00
	CP-OFDM 64QAM	1	1	19.19	19.45	19.41	20.50
	CP-OFDM 256QAM	1	1	15.95	15.95	16.07	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639334/3590.01	641666/3624.99	644000/3660	
80MHz	DFT-s-OFDM BPSK	1	1	19.54	19.84	19.56	21.00
		1	215	19.52	19.10	19.44	21.00
		108	54	19.88	19.54	19.36	21.00
		216	0	19.56	19.58	19.56	21.00
	DFT-s-OFDM QPSK	1	1	19.40	19.50	19.84	21.00
		1	215	19.03	19.17	19.87	21.00
		108	54	19.70	19.69	19.12	21.00
		216	0	19.47	19.45	19.53	21.00
	DFT-s-OFDM 16QAM	1	1	19.47	19.57	19.83	21.00
		108	54	19.31	19.71	19.45	21.00
	DFT-s-OFDM 64QAM	1	1	19.64	19.38	19.54	21.00
		108	54	19.44	19.34	19.64	21.00
	DFT-s-OFDM 256QAM	1	1	18.60	18.50	18.56	19.50
		108	54	18.11	18.15	18.35	19.50
	CP-OFDM QPSK	1	1	19.89	19.65	19.79	21.00
	CP-OFDM 16QAM	1	1	19.91	20.11	19.85	21.00
	CP-OFDM 64QAM	1	1	19.17	19.31	19.57	20.50
	CP-OFDM 256QAM	1	1	16.03	16.19	16.25	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639668/3595.02	641666/3624.99	643666/3654.99	
90MHz	DFT-s-OFDM BPSK	1	1	19.56	19.74	19.56	21.00
		1	243	19.38	19.36	19.52	21.00
		120	60	19.58	19.66	19.46	21.00
		243	0	19.62	19.56	19.30	21.00
	DFT-s-OFDM QPSK	1	1	19.26	19.66	19.86	21.00
		1	243	19.17	19.15	19.63	21.00
		120	60	19.66	19.59	19.22	21.00
		243	0	19.61	19.49	19.37	21.00
	DFT-s-OFDM 16QAM	1	1	19.55	19.65	19.89	21.00
		120	60	19.27	19.49	19.35	21.00
	DFT-s-OFDM 64QAM	1	1	19.30	19.54	19.54	21.00
		120	60	19.48	19.40	19.68	21.00
	DFT-s-OFDM 256QAM	1	1	18.70	18.54	18.38	19.50
		120	60	18.25	17.97	18.21	19.50

	CP-OFDM QPSK	1	1	19.79	19.69	19.69	21.00
	CP-OFDM 16QAM	1	1	19.87	20.03	20.19	21.00
	CP-OFDM 64QAM	1	1	19.31	19.37	19.43	20.50
	CP-OFDM 256QAM	1	1	16.05	16.23	16.03	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				640000/3600	641666/3624.99	643332/3649.98	
100MHz	DFT-s-OFDM BPSK	1	1	19.40	19.68	19.56	21.00
		1	271	19.30	19.26	19.36	21.00
		135	67	19.70	19.58	19.52	21.00
		270	0	19.58	19.48	19.38	21.00
	DFT-s-OFDM QPSK	1	1	19.28	19.66	19.78	21.00
		1	271	19.01	19.25	19.69	21.00
		135	67	19.78	19.47	19.22	21.00
		270	0	19.61	19.49	19.39	21.00
	DFT-s-OFDM 16QAM	1	1	19.65	19.47	19.83	21.00
		135	67	19.31	19.49	19.43	21.00
	DFT-s-OFDM 64QAM	1	1	19.42	19.50	19.48	21.00
		135	67	19.54	19.48	19.54	21.00
	DFT-s-OFDM 256QAM	1	1	18.52	18.66	18.48	19.50
		135	67	18.23	18.05	18.15	19.50
	CP-OFDM QPSK	1	1	19.73	19.75	19.61	21.00
	CP-OFDM 16QAM	1	1	19.89	20.01	20.01	21.00
	CP-OFDM 64QAM	1	1	19.23	19.37	19.35	20.50
	CP-OFDM 256QAM	1	1	16.15	16.13	16.07	17.50

n48 SA							
Hotspot on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				637000/3555	641666/3624.99	646332/3694.98	
10MHz	DFT-s-OFDM BPSK	1	1	20.93	20.91	20.75	22.00
		1	22	20.31	20.03	20.31	22.00
		12	6	20.19	20.25	20.65	22.00
		24	0	20.61	20.77	20.47	22.00
	DFT-s-OFDM QPSK	1	1	20.35	20.27	20.60	22.00
		1	22	20.06	20.18	20.89	22.00
		12	6	20.68	20.18	20.13	22.00
		24	0	20.62	20.38	20.32	22.00
	DFT-s-OFDM 16QAM	1	1	20.69	20.63	20.31	22.00
		12	6	20.50	20.66	20.52	22.00
	DFT-s-OFDM 64QAM	1	1	19.76	20.12	19.84	21.50
		12	6	20.35	20.13	20.31	21.50
	DFT-s-OFDM 256QAM	1	1	18.46	18.64	18.46	19.50
		12	6	18.02	17.82	17.98	19.50

	CP-OFDM QPSK	1	1	20.74	20.62	20.48	22.00
	CP-OFDM 16QAM	1	1	21.11	21.27	20.95	22.00
	CP-OFDM 64QAM	1	1	19.02	19.34	19.48	20.50
	CP-OFDM 256QAM	1	1	16.32	16.28	16.58	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637168/3557.52	641666/3624.99	646166/3692.49	
15MHz	DFT-s-OFDM BPSK	1	1	20.85	20.69	20.61	22.00
		1	36	20.43	20.07	20.41	22.00
		18	9	20.57	20.51	20.57	22.00
		36	0	20.57	20.53	20.73	22.00
	DFT-s-OFDM QPSK	1	1	20.49	20.53	20.86	22.00
		1	36	20.24	20.40	20.81	22.00
		18	9	20.78	20.46	20.31	22.00
		36	0	20.88	20.64	20.36	22.00
	DFT-s-OFDM 16QAM	1	1	20.59	20.57	20.51	22.00
		18	9	20.78	20.58	20.58	22.00
	DFT-s-OFDM 64QAM	1	1	19.92	20.02	20.10	21.50
		18	9	20.29	20.43	20.33	21.50
	DFT-s-OFDM 256QAM	1	1	18.48	18.84	18.60	19.50
		18	9	18.20	18.02	18.14	19.50
	CP-OFDM QPSK	1	1	20.86	20.68	20.84	22.00
	CP-OFDM 16QAM	1	1	21.11	21.09	21.01	22.00
	CP-OFDM 64QAM	1	1	19.46	19.40	19.56	20.50
	CP-OFDM 256QAM	1	1	16.42	16.22	16.28	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637334/3560.01	641666/3624.99	646000/3690	
20MHz	DFT-s-OFDM BPSK	1	1	20.79	20.75	20.57	22.00
		1	49	20.33	20.07	20.27	22.00
		25	12	20.55	20.27	20.61	22.00
		50	0	20.61	20.59	20.75	22.00
	DFT-s-OFDM QPSK	1	1	20.41	20.53	20.60	22.00
		1	49	20.04	20.28	20.73	22.00
		25	12	20.84	20.38	20.35	22.00
		50	0	20.88	20.68	20.26	22.00
	DFT-s-OFDM 16QAM	1	1	20.67	20.31	20.43	22.00
		25	12	20.62	20.62	20.56	22.00
	DFT-s-OFDM 64QAM	1	1	19.88	20.16	19.98	21.50
		25	12	20.33	20.13	20.07	21.50
	DFT-s-OFDM 256QAM	1	1	18.58	18.80	18.30	19.50
		25	12	18.02	18.06	18.02	19.50
	CP-OFDM QPSK	1	1	20.96	20.58	20.74	22.00
	CP-OFDM 16QAM	1	1	21.09	20.99	20.97	22.00
	CP-OFDM 64QAM	1	1	19.24	19.26	19.42	20.50

	CP-OFDM 256QAM	1	1	16.34	16.30	16.10	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				637668/3565.02	641666/3624.99	645666/3684.99	
30MHz	DFT-s-OFDM BPSK	1	1	20.83	21.01	20.65	22.00
		1	76	20.29	20.31	20.27	22.00
		36	18	20.39	20.53	20.87	22.00
		75	0	20.65	20.73	20.57	22.00
	DFT-s-OFDM QPSK	1	1	20.23	20.49	20.98	22.00
		1	76	20.26	20.16	20.99	22.00
		36	18	21.04	20.54	20.35	22.00
		75	0	20.84	20.40	20.30	22.00
	DFT-s-OFDM 16QAM	1	1	20.83	20.47	20.31	22.00
		36	18	20.56	20.46	20.40	22.00
	DFT-s-OFDM 64QAM	1	1	19.96	20.06	19.98	21.50
		36	18	20.15	20.29	20.37	21.50
	DFT-s-OFDM 256QAM	1	1	18.42	18.54	18.60	19.50
		36	18	18.24	18.06	17.94	19.50
	CP-OFDM QPSK	1	1	20.92	20.50	20.82	22.00
	CP-OFDM 16QAM	1	1	21.37	21.15	21.09	22.00
	CP-OFDM 64QAM	1	1	19.52	19.22	19.38	20.50
	CP-OFDM 256QAM	1	1	16.18	16.50	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638000/3570	641666/3624.99	645332/3679.98	
40MHz	DFT-s-OFDM BPSK	1	1	20.81	20.81	20.53	22.00
		1	104	20.17	20.07	20.59	22.00
		50	25	20.39	20.59	20.71	22.00
		100	0	20.49	20.59	20.71	22.00
	DFT-s-OFDM QPSK	1	1	20.49	20.47	20.74	22.00
		1	104	20.14	20.32	20.79	22.00
		50	25	20.86	20.56	20.47	22.00
		100	0	20.92	20.58	20.54	22.00
	DFT-s-OFDM 16QAM	1	1	20.61	20.53	20.65	22.00
		50	25	20.68	20.60	20.50	22.00
	DFT-s-OFDM 64QAM	1	1	20.00	19.96	19.92	21.50
		50	25	20.35	20.43	20.21	21.50
	DFT-s-OFDM 256QAM	1	1	18.50	18.80	18.42	19.50
		50	25	18.22	18.08	18.14	19.50
	CP-OFDM QPSK	1	1	21.00	20.76	20.98	22.00
	CP-OFDM 16QAM	1	1	21.25	20.93	20.95	22.00
	CP-OFDM 64QAM	1	1	19.20	19.44	19.44	20.50
	CP-OFDM 256QAM	1	1	16.42	16.36	16.20	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638334/3575.01	641666/3624.99	645000/3675	

50MHz	DFT-s-OFDM BPSK	1	1	20.79	20.79	20.65	22.00
		1	131	20.29	20.11	20.43	22.00
		64	32	20.47	20.41	20.65	22.00
		128	0	20.57	20.63	20.67	22.00
	DFT-s-OFDM QPSK	1	1	20.41	20.57	20.78	22.00
		1	131	20.12	20.28	20.77	22.00
		64	32	20.84	20.42	20.37	22.00
		128	0	20.80	20.58	20.38	22.00
	DFT-s-OFDM 16QAM	1	1	20.63	20.47	20.47	22.00
		64	32	20.74	20.56	20.48	22.00
	DFT-s-OFDM 64QAM	1	1	19.90	20.08	19.94	21.50
		64	32	20.23	20.29	20.23	21.50
	DFT-s-OFDM 256QAM	1	1	18.54	18.70	18.50	19.50
		64	32	18.12	18.02	18.06	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				638668/3580.02	641666/3624.99	644666/3669.99	
60MHz	DFT-s-OFDM BPSK	1	1	20.63	20.71	20.53	22.00
		1	160	20.45	20.33	20.61	22.00
		81	40	20.37	20.61	20.45	22.00
		162	0	20.25	20.57	20.47	22.00
	DFT-s-OFDM QPSK	1	1	20.23	20.61	20.72	22.00
		1	160	20.22	20.22	20.87	22.00
		81	40	20.92	20.50	20.13	22.00
		162	0	20.46	20.60	20.26	22.00
	DFT-s-OFDM 16QAM	1	1	20.43	20.61	20.47	22.00
		81	40	20.52	20.46	20.66	22.00
	DFT-s-OFDM 64QAM	1	1	19.74	20.04	19.94	21.50
		81	40	20.19	20.41	20.43	21.50
	DFT-s-OFDM 256QAM	1	1	18.78	18.76	18.66	19.50
		81	40	18.06	18.14	17.96	19.50
	CP-OFDM QPSK	1	1	21.04	20.78	20.74	22.00
	CP-OFDM 16QAM	1	1	21.15	20.93	21.03	22.00
	CP-OFDM 64QAM	1	1	19.60	19.38	19.28	20.50
	CP-OFDM 256QAM	1	1	16.20	16.30	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639000/3585	641666/3624.99	644332/3664.98	
70MHz	DFT-s-OFDM BPSK	1	1	20.57	20.61	20.59	22.00
		1	187	20.17	20.23	20.47	22.00
		92	45	20.61	20.29	20.51	22.00

		180	0	20.45	20.35	20.35	22.00
	DFT-s-OFDM QPSK	1	1	20.35	20.73	20.64	22.00
		1	187	20.24	20.32	20.75	22.00
		92	45	20.68	20.38	20.15	22.00
		180	0	20.62	20.30	20.34	22.00
	DFT-s-OFDM 16QAM	1	1	20.51	20.41	20.45	22.00
		92	46	20.72	20.34	20.64	22.00
	DFT-s-OFDM 64QAM	1	1	19.62	20.08	19.82	21.50
		92	46	20.13	19.99	20.07	21.50
	DFT-s-OFDM 256QAM	1	1	18.46	18.76	18.42	19.50
		92	46	18.26	18.14	18.16	19.50
	CP-OFDM QPSK	1	1	20.64	20.58	20.86	22.00
	CP-OFDM 16QAM	1	1	21.13	20.93	20.93	22.00
	CP-OFDM 64QAM	1	1	19.52	19.46	19.46	20.50
	CP-OFDM 256QAM	1	1	16.34	16.20	16.04	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639334/3590.01	641666/3624.99	644000/3660	
80MHz	DFT-s-OFDM BPSK	1	1	20.75	20.69	20.65	22.00
		1	215	20.33	20.29	20.55	22.00
		108	54	20.55	20.63	20.59	22.00
		216	0	20.43	20.65	20.59	22.00
	DFT-s-OFDM QPSK	1	1	20.33	20.61	20.92	22.00
		1	215	20.36	20.38	20.63	22.00
		108	54	20.94	20.40	20.15	22.00
		216	0	20.60	20.46	20.34	22.00
	DFT-s-OFDM 16QAM	1	1	20.47	20.41	20.43	22.00
		108	54	20.68	20.54	20.66	22.00
	DFT-s-OFDM 64QAM	1	1	19.98	20.14	19.98	21.50
		108	54	20.29	20.15	20.35	21.50
	DFT-s-OFDM 256QAM	1	1	18.56	18.56	18.48	19.50
		108	54	18.12	18.12	18.08	19.50
	CP-OFDM QPSK	1	1	20.86	20.72	21.02	22.00
	CP-OFDM 16QAM	1	1	21.05	20.93	21.05	22.00
	CP-OFDM 64QAM	1	1	19.42	19.50	19.54	20.50
	CP-OFDM 256QAM	1	1	16.26	16.12	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				639668/3595.02	641666/3624.99	643666/3654.99	
90MHz	DFT-s-OFDM BPSK	1	1	20.35	20.69	20.55	22.00
		1	243	20.31	20.09	20.67	22.00
		120	60	20.47	20.51	20.15	22.00
		243	0	20.33	20.61	20.51	22.00
	DFT-s-OFDM QPSK	1	1	20.35	20.99	20.60	22.00
		1	243	20.50	20.04	20.65	22.00

		120	60	21.12	20.54	20.33	22.00
		243	0	20.82	20.40	20.36	22.00
	DFT-s-OFDM 16QAM	1	1	20.65	20.49	20.19	22.00
		120	60	20.84	20.56	20.82	22.00
	DFT-s-OFDM 64QAM	1	1	19.64	20.06	19.78	21.50
		120	60	20.59	20.19	20.23	21.50
	DFT-s-OFDM 256QAM	1	1	18.50	18.90	18.42	19.50
		120	60	18.28	18.38	18.06	19.50
	CP-OFDM QPSK	1	1	20.80	20.78	20.78	22.00
	CP-OFDM 16QAM	1	1	21.03	20.93	21.09	22.00
Bandwidth	CP-OFDM 64QAM	1	1	19.42	19.44	19.26	20.50
	CP-OFDM 256QAM	1	1	16.50	16.08	16.32	17.50
	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				640000/3600	641666/3624.99	643332/3649.98	
	DFT-s-OFDM BPSK	1	1	20.65	20.67	20.55	22.00
		1	271	20.29	20.23	20.39	22.00
		135	67	20.55	20.47	20.49	22.00
		270	0	20.41	20.49	20.53	22.00
	DFT-s-OFDM QPSK	1	1	20.27	20.67	20.82	22.00
		1	271	20.22	20.26	20.67	22.00
		135	67	20.90	20.48	20.21	22.00
		270	0	20.62	20.50	20.40	22.00
100MHz	DFT-s-OFDM 16QAM	1	1	20.45	20.43	20.41	22.00
		135	67	20.70	20.50	20.56	22.00
	DFT-s-OFDM 64QAM	1	1	19.82	19.98	19.92	21.50
		135	67	20.33	20.19	20.21	21.50
	DFT-s-OFDM 256QAM	1	1	18.56	18.66	18.54	19.50
		135	67	18.22	18.06	18.12	19.50
	CP-OFDM QPSK	1	1	20.84	20.74	20.92	22.00
	CP-OFDM 16QAM	1	1	21.11	20.99	21.07	22.00
	CP-OFDM 64QAM	1	1	19.42	19.36	19.44	20.50
	CP-OFDM 256QAM	1	1	16.30	16.14	16.24	17.50

n66SA&NSA							
Normal Power&Receiver off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	23.04	22.74	22.90	24.00
		1	23	22.73	22.25	22.36	24.00
		12	6	22.93	23.07	22.64	24.00
		25	0	22.24	22.48	21.92	23.00
	DFT-s-OFDM QPSK	1	1	22.82	22.84	22.75	24.00
		1	23	22.72	22.18	22.20	24.00

		12	6	23.15	23.06	22.69	24.00
		25	0	21.85	21.87	21.69	23.00
	DFT-s-OFDM 16QAM	1	1	21.31	21.27	21.85	22.50
		12	6	22.26	21.96	21.67	22.50
	DFT-s-OFDM 64QAM	1	1	19.94	20.28	20.16	21.50
		12	6	20.68	20.90	20.37	21.50
	DFT-s-OFDM 256QAM	1	1	18.81	18.79	19.18	19.50
		12	6	18.93	18.71	18.43	19.50
	CP-OFDM QPSK	1	1	21.56	21.84	21.43	22.50
	CP-OFDM 16QAM	1	1	21.23	21.09	21.40	22.00
	CP-OFDM 64QAM	1	1	19.67	19.63	20.05	20.50
	CP-OFDM 256QAM	1	1	16.50	16.54	16.34	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	23.04	22.68	22.86	24.00
		1	50	22.83	22.33	22.30	24.00
		25	12	22.85	23.19	22.58	24.00
		50	0	22.32	22.52	22.02	23.00
	DFT-s-OFDM QPSK	1	1	22.76	22.68	22.77	24.00
		1	50	22.82	22.28	22.22	24.00
		25	12	23.05	23.04	22.75	24.00
		50	0	21.77	21.73	21.79	23.00
	DFT-s-OFDM 16QAM	1	1	21.43	21.29	21.79	22.50
		25	12	22.12	21.96	21.63	22.50
	DFT-s-OFDM 64QAM	1	1	19.98	20.22	20.04	21.50
		25	12	20.70	20.76	20.41	21.50
	DFT-s-OFDM 256QAM	1	1	18.87	18.63	19.00	19.50
		25	12	18.77	18.63	18.43	19.50
	CP-OFDM QPSK	1	1	21.60	21.66	21.25	22.50
	CP-OFDM 16QAM	1	1	21.17	21.15	21.40	22.00
	CP-OFDM 64QAM	1	1	19.65	19.59	19.89	20.50
	CP-OFDM 256QAM	1	1	16.38	16.50	16.16	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	23.02	22.84	23.06	24.00
		1	77	22.71	22.51	22.60	24.00
		36	18	23.11	22.99	22.78	24.00
		75	0	22.34	22.54	22.16	23.00
	DFT-s-OFDM QPSK	1	1	22.64	22.88	22.83	24.00
		1	77	22.68	22.44	22.54	24.00
		36	18	22.95	23.08	22.95	24.00
		75	0	21.81	22.07	21.75	23.00
	DFT-s-OFDM	1	1	21.45	21.75	21.85	22.50

	16QAM	36	18	22.42	22.18	21.95	22.50
	DFT-s-OFDM	1	1	20.08	20.28	20.38	21.50
	64QAM	36	18	20.76	20.78	20.45	21.50
	DFT-s-OFDM	1	1	18.91	18.99	19.04	19.50
	256QAM	36	18	18.71	18.73	18.51	19.50
	CP-OFDM QPSK	1	1	21.30	21.36	21.67	22.50
	CP-OFDM 16QAM	1	1	21.29	21.21	21.44	22.00
	CP-OFDM 64QAM	1	1	19.69	19.71	19.85	20.50
	CP-OFDM 256QAM	1	1	16.26	16.16	16.46	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	22.74	22.62	22.84	24.00
		1	104	22.49	22.49	22.46	24.00
		50	25	23.01	23.11	22.58	24.00
		100	0	22.30	22.36	22.16	23.00
	DFT-s-OFDM QPSK	1	1	22.82	22.82	22.75	24.00
		1	104	22.54	22.30	22.34	24.00
		50	25	22.83	23.06	22.77	24.00
		100	0	21.67	21.83	21.69	23.00
	DFT-s-OFDM 16QAM	1	1	21.43	21.45	21.49	22.50
		50	25	22.28	22.12	21.81	22.50
	DFT-s-OFDM 64QAM	1	1	20.00	20.02	20.22	21.50
		50	25	20.64	20.70	20.25	21.50
	DFT-s-OFDM 256QAM	1	1	18.93	18.87	18.78	19.50
		50	25	18.67	18.63	18.37	19.50
	CP-OFDM QPSK	1	1	21.30	21.52	21.59	22.50
	CP-OFDM 16QAM	1	1	21.09	21.25	21.30	22.00
	CP-OFDM 64QAM	1	1	19.59	19.63	19.53	20.50
	CP-OFDM 256QAM	1	1	16.20	16.16	16.16	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	22.76	22.64	22.76	24.00
		1	131	22.73	22.33	22.66	24.00
		64	32	23.21	22.99	22.62	24.00
		128	0	22.40	22.40	22.30	23.00
	DFT-s-OFDM QPSK	1	1	22.84	22.82	22.93	24.00
		1	131	22.50	22.46	22.74	24.00
		64	32	23.15	22.92	22.99	24.00
		128	0	21.63	22.01	21.79	23.00
	DFT-s-OFDM 16QAM	1	1	21.63	21.61	21.89	22.50
		64	32	22.24	22.32	21.97	22.50
	DFT-s-OFDM 64QAM	1	1	20.14	20.02	20.38	21.50
		64	32	20.50	20.76	20.29	21.50

	DFT-s-OFDM 256QAM	1	1	19.09	19.09	18.86	19.50
		64	32	18.77	18.75	18.23	19.50
	CP-OFDM QPSK	1	1	21.24	21.44	21.67	22.50
	CP-OFDM 16QAM	1	1	21.25	21.19	21.48	22.00
	CP-OFDM 64QAM	1	1	19.57	19.59	19.65	20.50
	CP-OFDM 256QAM	1	1	16.42	16.48	16.34	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	22.92	22.78	22.96	24.00
		1	158	22.43	22.63	22.66	24.00
		80	40	23.11	23.19	22.92	24.00
		160	0	22.46	22.58	22.28	23.00
	DFT-s-OFDM QPSK	1	1	22.76	22.70	22.93	24.00
		1	158	22.72	22.44	22.48	24.00
		80	40	22.91	23.14	22.73	24.00
		160	0	21.79	21.85	21.83	23.00
	DFT-s-OFDM 16QAM	1	1	21.39	21.67	21.81	22.50
		80	40	22.24	22.18	21.71	22.50
	DFT-s-OFDM 64QAM	1	1	20.06	20.18	20.40	21.50
		80	40	20.50	20.66	20.29	21.50
	DFT-s-OFDM 256QAM	1	1	18.99	18.83	19.00	19.50
		80	40	18.93	18.67	18.39	19.50
	CP-OFDM QPSK	1	1	21.30	21.34	21.73	22.50
	CP-OFDM 16QAM	1	1	21.25	21.11	21.18	22.00
	CP-OFDM 64QAM	1	1	19.69	19.67	19.57	20.50
	CP-OFDM 256QAM	1	1	16.26	16.42	16.34	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	22.88	22.80	22.90	24.00
		1	214	22.55	22.45	22.48	24.00
		108	54	23.11	23.07	22.78	24.00
		216	0	22.40	22.42	22.24	23.00
	DFT-s-OFDM QPSK	1	1	22.74	22.82	22.89	24.00
		1	214	22.68	22.46	22.52	24.00
		108	54	23.01	23.08	22.79	24.00
		216	0	21.81	21.93	21.75	23.00
	DFT-s-OFDM 16QAM	1	1	21.43	21.61	21.69	22.50
		108	54	22.28	22.12	21.83	22.50
	DFT-s-OFDM 64QAM	1	1	20.10	20.20	20.30	21.50
		108	54	20.60	20.66	20.37	21.50
	DFT-s-OFDM 256QAM	1	1	18.95	18.87	18.98	19.50
		108	54	18.81	18.61	18.35	19.50
	CP-OFDM QPSK	1	1	21.30	21.46	21.57	22.50

	CP-OFDM 16QAM	1	1	21.13	21.21	21.30	22.00
	CP-OFDM 64QAM	1	1	19.55	19.61	19.69	20.50
	CP-OFDM 256QAM	1	1	16.28	16.26	16.32	17.50

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Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.87	19.57	19.84	21.00
		1	23	19.96	19.28	19.96	21.00
		12	6	19.91	19.75	19.67	21.00
		25	0	19.85	19.87	19.50	21.00
	DFT-s-OFDM QPSK	1	1	19.64	19.94	19.77	21.00
		1	23	19.91	19.83	19.49	21.00
		12	6	20.05	20.03	19.96	21.00
		25	0	19.83	20.17	19.90	21.00
	DFT-s-OFDM 16QAM	1	1	19.47	19.31	19.82	21.00
		12	6	20.19	20.23	19.59	21.00
	DFT-s-OFDM 64QAM	1	1	19.95	19.37	20.07	21.00
		12	6	20.25	20.17	19.89	21.00
	DFT-s-OFDM 256QAM	1	1	18.54	18.88	18.75	19.50
		12	6	18.62	18.54	18.40	19.50
	CP-OFDM QPSK	1	1	19.86	20.00	19.66	21.00
	CP-OFDM 16QAM	1	1	20.21	19.69	20.36	21.00
	CP-OFDM 64QAM	1	1	19.34	19.58	19.75	20.50
	CP-OFDM 256QAM	1	1	16.26	16.24	16.19	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
10MHz	DFT-s-OFDM BPSK	1	1	19.77	19.67	19.96	21.00
		1	50	19.84	19.42	19.76	21.00
		25	12	19.73	19.87	19.59	21.00
		50	0	19.67	19.69	19.38	21.00
	DFT-s-OFDM QPSK	1	1	19.76	19.94	19.87	21.00
		1	50	19.85	19.61	19.47	21.00
		25	12	20.11	19.85	19.82	21.00
		50	0	19.71	20.11	19.96	21.00
	DFT-s-OFDM 16QAM	1	1	19.59	19.41	19.96	21.00
		25	12	20.13	20.33	19.69	21.00
	DFT-s-OFDM 64QAM	1	1	19.87	19.45	19.85	21.00
		25	12	20.25	20.01	19.83	21.00
	DFT-s-OFDM 256QAM	1	1	18.70	18.78	18.83	19.50
		25	12	18.44	18.36	18.54	19.50
	CP-OFDM QPSK	1	1	19.68	19.84	19.84	21.00

	CP-OFDM 16QAM	1	1	20.13	19.81	20.34	21.00
	CP-OFDM 64QAM	1	1	19.42	19.42	19.67	20.50
	CP-OFDM 256QAM	1	1	16.26	16.08	16.21	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.81	19.55	19.84	21.00
		1	77	19.44	19.40	19.58	21.00
		36	18	19.95	20.15	19.65	21.00
		75	0	19.93	19.77	19.56	21.00
	DFT-s-OFDM QPSK	1	1	19.64	19.70	19.89	21.00
		1	77	19.69	19.45	19.59	21.00
		36	18	19.89	20.05	19.82	21.00
		75	0	19.71	20.01	19.58	21.00
	DFT-s-OFDM 16QAM	1	1	19.45	19.49	19.68	21.00
		36	18	20.23	20.07	19.79	21.00
	DFT-s-OFDM 64QAM	1	1	19.43	19.49	19.91	21.00
		36	18	20.03	20.25	19.93	21.00
	DFT-s-OFDM 256QAM	1	1	18.60	18.72	18.85	19.50
		36	18	18.34	18.50	18.34	19.50
	CP-OFDM QPSK	1	1	19.82	19.78	20.14	21.00
	CP-OFDM 16QAM	1	1	20.09	19.93	20.18	21.00
	CP-OFDM 64QAM	1	1	19.36	19.34	19.57	20.50
	CP-OFDM 256QAM	1	1	16.20	16.24	16.35	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	19.85	19.69	19.84	21.00
		1	104	19.50	19.52	19.46	21.00
		50	25	20.05	20.09	19.79	21.00
		100	0	19.97	19.93	19.62	21.00
	DFT-s-OFDM QPSK	1	1	19.74	19.66	19.97	21.00
		1	104	19.71	19.53	19.53	21.00
		50	25	20.07	20.19	19.70	21.00
		100	0	19.79	20.01	19.76	21.00
	DFT-s-OFDM 16QAM	1	1	19.69	19.65	19.80	21.00
		50	25	20.39	20.31	19.81	21.00
	DFT-s-OFDM 64QAM	1	1	19.71	19.75	19.77	21.00
		50	25	20.19	20.07	19.77	21.00
	DFT-s-OFDM 256QAM	1	1	18.72	18.74	19.09	19.50
		50	25	18.44	18.60	18.32	19.50
	CP-OFDM QPSK	1	1	19.74	19.96	20.04	21.00
	CP-OFDM 16QAM	1	1	20.41	20.01	20.36	21.00
	CP-OFDM 64QAM	1	1	19.40	19.46	19.83	20.50
	CP-OFDM 256QAM	1	1	16.34	16.30	16.35	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	19.89	19.85	19.74	21.00
		1	131	19.56	19.42	19.52	21.00
		64	32	20.07	20.03	19.73	21.00
		128	0	19.71	19.71	19.68	21.00
	DFT-s-OFDM QPSK	1	1	19.90	19.84	20.07	21.00
		1	131	19.87	19.55	19.67	21.00
		64	32	19.95	20.27	19.92	21.00
		128	0	19.71	19.75	19.84	21.00
	DFT-s-OFDM 16QAM	1	1	19.39	19.57	19.88	21.00
		64	32	20.33	20.21	20.01	21.00
	DFT-s-OFDM 64QAM	1	1	19.71	19.75	19.71	21.00
		64	32	20.19	20.03	20.05	21.00
	DFT-s-OFDM 256QAM	1	1	18.86	18.96	19.19	19.50
		64	32	18.66	18.54	18.18	19.50
	CP-OFDM QPSK	1	1	19.66	19.88	19.88	21.00
	CP-OFDM 16QAM	1	1	20.41	20.31	20.30	21.00
	CP-OFDM 64QAM	1	1	19.68	19.64	19.53	20.50
	CP-OFDM 256QAM	1	1	16.38	16.34	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	19.83	19.85	19.80	21.00
		1	158	19.64	19.56	19.36	21.00
		80	40	20.05	20.11	19.63	21.00
		160	0	19.81	19.87	19.62	21.00
	DFT-s-OFDM QPSK	1	1	19.92	19.74	20.11	21.00
		1	158	19.77	19.65	19.49	21.00
		80	40	19.93	20.13	19.84	21.00
		160	0	19.89	19.81	19.88	21.00
	DFT-s-OFDM 16QAM	1	1	19.57	19.73	19.76	21.00
		80	40	20.51	20.15	19.99	21.00
	DFT-s-OFDM 64QAM	1	1	19.61	19.61	19.89	21.00
		80	40	20.07	20.15	19.85	21.00
	DFT-s-OFDM 256QAM	1	1	18.90	18.74	18.97	19.50
		80	40	18.70	18.54	18.26	19.50
	CP-OFDM QPSK	1	1	19.72	19.86	20.06	21.00
	CP-OFDM 16QAM	1	1	20.33	20.29	20.30	21.00
	CP-OFDM 64QAM	1	1	19.56	19.50	19.81	20.50
	CP-OFDM 256QAM	1	1	16.44	16.14	16.29	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM	1	1	19.79	19.73	19.92	21.00

	BPSK	1	214	19.52	19.48	19.48	21.00
		108	54	20.05	20.09	19.75	21.00
		216	0	19.83	19.89	19.72	21.00
	DFT-s-OFDM QPSK	1	1	19.76	19.76	19.93	21.00
		1	214	19.65	19.49	19.51	21.00
		108	54	19.97	20.09	19.78	21.00
		216	0	19.89	19.93	19.74	21.00
	DFT-s-OFDM 16QAM	1	1	19.55	19.55	19.74	21.00
		108	54	20.33	20.15	19.83	21.00
	DFT-s-OFDM 64QAM	1	1	19.63	19.63	19.81	21.00
		108	54	20.05	20.17	19.85	21.00
	DFT-s-OFDM 256QAM	1	1	18.80	18.80	18.99	19.50
		108	54	18.52	18.62	18.34	19.50
	CP-OFDM QPSK	1	1	19.76	19.88	20.06	21.00
	CP-OFDM 16QAM	1	1	20.27	20.11	20.30	21.00
	CP-OFDM 64QAM	1	1	19.48	19.52	19.69	20.50
	CP-OFDM 256QAM	1	1	16.28	16.14	16.33	17.50

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Receiver on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	16.29	15.81	16.52	17.50
		1	23	16.14	15.80	15.88	17.50
		12	6	16.13	16.21	16.15	17.50
		25	0	16.13	16.23	16.28	17.50
	DFT-s-OFDM QPSK	1	1	16.24	16.08	16.35	17.50
		1	23	16.47	15.87	16.13	17.50
		12	6	16.35	16.39	16.18	17.50
		25	0	16.57	16.61	16.36	17.50
	DFT-s-OFDM 16QAM	1	1	16.47	15.83	16.36	17.50
		12	6	16.69	16.11	16.05	17.50
	DFT-s-OFDM 64QAM	1	1	15.97	15.95	15.59	17.50
		12	6	16.07	15.95	15.83	17.50
	DFT-s-OFDM 256QAM	1	1	16.46	16.30	16.25	17.50
		12	6	15.94	15.92	15.70	17.50
	CP-OFDM QPSK	1	1	16.14	16.10	15.76	17.50
	CP-OFDM 16QAM	1	1	16.35	16.37	16.46	17.50
	CP-OFDM 64QAM	1	1	15.78	15.92	16.51	17.50
	CP-OFDM 256QAM	1	1	15.85	15.71	15.94	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
10MHz	DFT-s-OFDM	1	1	343000/1715	349000/1745	355000/1775	

	BPSK	1	50	16.32	15.78	15.84	17.50
		25	12	16.33	16.45	16.43	17.50
		50	0	16.29	16.33	16.26	17.50
	DFT-s-OFDM QPSK	1	1	16.24	16.10	16.39	17.50
		1	50	16.53	16.01	16.05	17.50
		25	12	16.27	16.41	16.46	17.50
		50	0	16.51	16.61	16.38	17.50
	DFT-s-OFDM 16QAM	1	1	16.45	15.87	16.28	17.50
		25	12	16.53	16.15	16.19	17.50
	DFT-s-OFDM 64QAM	1	1	15.97	15.99	15.75	17.50
		25	12	16.01	16.01	16.01	17.50
	DFT-s-OFDM 256QAM	1	1	16.54	16.36	16.57	17.50
		25	12	16.06	16.08	15.84	17.50
	CP-OFDM QPSK	1	1	15.92	15.88	15.80	17.50
	CP-OFDM 16QAM	1	1	16.21	16.25	16.42	17.50
	CP-OFDM 64QAM	1	1	15.86	15.94	16.41	17.50
	CP-OFDM 256QAM	1	1	16.23	15.99	16.02	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	16.19	16.01	16.70	17.50
		1	77	16.24	15.88	15.88	17.50
		36	18	16.31	16.35	16.31	17.50
		75	0	16.25	16.21	16.18	17.50
	DFT-s-OFDM QPSK	1	1	16.30	16.06	16.33	17.50
		1	77	16.43	15.83	16.05	17.50
		36	18	16.37	16.47	16.34	17.50
		75	0	16.59	16.65	16.48	17.50
	DFT-s-OFDM 16QAM	1	1	16.39	15.99	16.26	17.50
		36	18	16.63	16.25	16.05	17.50
	DFT-s-OFDM 64QAM	1	1	16.03	16.01	15.69	17.50
		36	18	15.99	16.09	15.99	17.50
	DFT-s-OFDM 256QAM	1	1	16.42	16.28	16.43	17.50
		36	18	16.10	16.04	15.70	17.50
	CP-OFDM QPSK	1	1	16.04	16.00	15.88	17.50
	CP-OFDM 16QAM	1	1	16.31	16.35	16.42	17.50
	CP-OFDM 64QAM	1	1	15.96	15.98	16.45	17.50
	CP-OFDM 256QAM	1	1	16.05	15.85	16.10	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	16.45	16.37	16.38	17.50
		1	104	16.04	16.06	15.92	17.50
		50	25	16.63	16.59	16.15	17.50
		100	0	16.37	16.51	16.22	17.50

	DFT-s-OFDM QPSK	1	1	16.42	16.28	16.43	17.50
		1	104	16.11	15.95	16.15	17.50
		50	25	16.59	16.73	16.36	17.50
		100	0	16.37	16.39	16.16	17.50
	DFT-s-OFDM 16QAM	1	1	15.97	15.95	16.30	17.50
		50	25	16.39	16.19	15.93	17.50
	DFT-s-OFDM 64QAM	1	1	16.09	16.11	15.83	17.50
		50	25	16.29	16.23	15.97	17.50
	DFT-s-OFDM 256QAM	1	1	16.38	16.50	16.53	17.50
		50	25	16.04	16.36	15.92	17.50
	CP-OFDM QPSK	1	1	15.94	15.94	16.16	17.50
	CP-OFDM 16QAM	1	1	16.31	16.27	16.36	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	16.27	16.31	16.50	17.50
		1	131	15.90	15.92	15.92	17.50
		64	32	16.35	16.69	16.11	17.50
		128	0	16.27	16.23	16.04	17.50
	DFT-s-OFDM QPSK	1	1	16.06	16.08	16.37	17.50
		1	131	16.23	15.91	16.05	17.50
		64	32	16.55	16.57	16.28	17.50
		128	0	16.41	16.47	16.12	17.50
	DFT-s-OFDM 16QAM	1	1	15.99	15.97	16.30	17.50
		64	32	16.39	16.05	15.95	17.50
	DFT-s-OFDM 64QAM	1	1	16.13	15.95	15.77	17.50
		64	32	16.25	16.21	16.03	17.50
	DFT-s-OFDM 256QAM	1	1	16.20	16.34	16.53	17.50
		64	32	15.96	16.10	15.86	17.50
	CP-OFDM QPSK	1	1	15.88	16.04	16.18	17.50
	CP-OFDM 16QAM	1	1	16.35	16.31	16.26	17.50
	CP-OFDM 64QAM	1	1	15.88	16.14	16.15	17.50
	CP-OFDM 256QAM	1	1	16.05	15.91	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	16.43	16.41	16.60	17.50
		1	158	15.84	16.08	16.00	17.50
		80	40	16.71	16.67	16.15	17.50
		160	0	16.17	16.29	16.30	17.50
	DFT-s-OFDM QPSK	1	1	16.26	16.30	16.47	17.50
		1	158	16.31	16.11	15.93	17.50
		80	40	16.29	16.57	16.20	17.50

		160	0	16.61	16.43	16.22	17.50
	DFT-s-OFDM 16QAM	1	1	16.15	16.25	16.16	17.50
		80	40	16.33	16.47	16.11	17.50
	DFT-s-OFDM 64QAM	1	1	16.33	16.23	15.83	17.50
		80	40	16.09	16.35	16.17	17.50
	DFT-s-OFDM 256QAM	1	1	16.42	16.50	16.47	17.50
		80	40	16.34	16.38	16.00	17.50
	CP-OFDM QPSK	1	1	15.84	16.08	16.28	17.50
	CP-OFDM 16QAM	1	1	16.45	16.31	16.42	17.50
Bandwidth	CP-OFDM 64QAM	1	1	15.98	16.28	16.23	17.50
	CP-OFDM 256QAM	1	1	16.01	16.03	16.18	17.50
	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	16.39	16.15	16.36	17.50
		1	214	16.20	16.12	16.12	17.50
		108	54	16.55	16.61	16.33	17.50
		216	0	16.51	16.35	16.16	17.50
	DFT-s-OFDM QPSK	1	1	16.32	16.30	16.59	17.50
		1	214	16.23	15.93	15.95	17.50
		108	54	16.53	16.47	16.26	17.50
		216	0	16.45	16.61	16.30	17.50
	DFT-s-OFDM 16QAM	1	1	16.03	16.13	16.30	17.50
		108	54	16.31	16.23	15.99	17.50
	DFT-s-OFDM 64QAM	1	1	16.25	16.09	15.89	17.50
		108	54	16.07	16.37	15.85	17.50
	DFT-s-OFDM 256QAM	1	1	16.44	16.54	16.55	17.50
		108	54	16.00	16.40	15.86	17.50
	CP-OFDM QPSK	1	1	15.90	16.06	16.12	17.50
	CP-OFDM 16QAM	1	1	16.55	16.17	16.32	17.50
	CP-OFDM 64QAM	1	1	16.24	16.18	16.27	17.50
	CP-OFDM 256QAM	1	1	16.19	16.21	16.36	17.50

n66 SA&NSA							
Hotspot on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.45	21.01	21.03	22.00
		1	23	20.81	20.81	20.62	22.00
		12	6	21.26	21.22	20.50	22.00
		25	0	21.03	20.83	20.77	22.00
	DFT-s-OFDM QPSK	1	1	21.04	20.80	20.86	22.00
		1	23	20.37	20.53	20.71	22.00
		12	6	21.20	21.30	21.00	22.00

		25	0	20.83	21.09	20.63	22.00
	DFT-s-OFDM 16QAM	1	1	20.41	20.73	20.83	22.00
		12	6	20.98	21.38	20.91	22.00
	DFT-s-OFDM 64QAM	1	1	19.92	20.06	20.44	21.50
		12	6	20.86	20.80	20.36	21.50
	DFT-s-OFDM 256QAM	1	1	18.72	18.80	18.67	19.50
		12	6	18.73	18.99	18.36	19.50
	CP-OFDM QPSK	1	1	21.16	20.96	20.92	22.00
	CP-OFDM 16QAM	1	1	21.18	21.18	21.47	22.00
	CP-OFDM 64QAM	1	1	19.44	19.46	19.57	20.50
	CP-OFDM 256QAM	1	1	16.25	16.11	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	20.41	20.83	20.91	22.00
		1	50	20.73	20.65	20.68	22.00
		25	12	21.26	21.08	20.60	22.00
		50	0	20.87	20.85	20.81	22.00
	DFT-s-OFDM QPSK	1	1	20.96	20.78	20.84	22.00
		1	50	20.23	20.51	20.57	22.00
		25	12	21.24	21.26	20.82	22.00
		50	0	20.79	20.93	20.59	22.00
	DFT-s-OFDM 16QAM	1	1	20.35	20.59	20.81	22.00
		25	12	21.10	21.34	20.93	22.00
	DFT-s-OFDM 64QAM	1	1	19.80	19.94	20.48	21.50
		25	12	20.78	20.62	20.48	21.50
	DFT-s-OFDM 256QAM	1	1	18.78	18.88	18.79	19.50
		25	12	18.73	18.81	18.48	19.50
	CP-OFDM QPSK	1	1	21.16	21.00	21.02	22.00
	CP-OFDM 16QAM	1	1	21.16	21.12	21.39	22.00
	CP-OFDM 64QAM	1	1	19.40	19.50	19.57	20.50
	CP-OFDM 256QAM	1	1	16.27	16.21	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.69	20.65	21.07	22.00
		1	77	20.69	20.37	20.56	22.00
		36	18	21.16	21.20	20.66	22.00
		75	0	20.73	21.01	20.63	22.00
	DFT-s-OFDM QPSK	1	1	20.64	20.94	20.84	22.00
		1	77	20.33	20.47	20.45	22.00
		36	18	21.02	20.98	20.80	22.00
		75	0	20.91	20.99	20.69	22.00
	DFT-s-OFDM 16QAM	1	1	20.23	20.73	20.75	22.00
		36	18	21.18	21.12	20.85	22.00

	DFT-s-OFDM 64QAM	1	1	19.96	20.22	20.44	21.50
		36	18	20.84	20.74	20.48	21.50
	DFT-s-OFDM 256QAM	1	1	18.72	18.68	19.07	19.50
		36	18	18.59	18.81	18.24	19.50
	CP-OFDM QPSK	1	1	21.02	20.96	21.16	22.00
	CP-OFDM 16QAM	1	1	20.84	21.12	21.25	22.00
	CP-OFDM 64QAM	1	1	19.62	19.42	19.59	20.50
	CP-OFDM 256QAM	1	1	16.39	16.09	16.51	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	20.19	20.67	21.09	22.00
		1	104	20.77	20.71	20.44	22.00
		50	25	21.30	21.30	20.78	22.00
		100	0	20.81	20.97	20.85	22.00
	DFT-s-OFDM QPSK	1	1	20.42	20.48	21.00	22.00
		1	104	20.39	20.71	20.73	22.00
		50	25	20.82	21.08	21.00	22.00
		100	0	20.81	20.81	20.55	22.00
	DFT-s-OFDM 16QAM	1	1	20.43	20.51	20.85	22.00
		50	25	20.94	21.08	21.11	22.00
	DFT-s-OFDM 64QAM	1	1	19.82	20.18	20.28	21.50
		50	25	20.76	20.88	20.38	21.50
	DFT-s-OFDM 256QAM	1	1	18.86	18.90	18.87	19.50
		50	25	18.19	18.41	18.36	19.50
	CP-OFDM QPSK	1	1	20.82	20.86	20.94	22.00
	CP-OFDM 16QAM	1	1	20.96	21.10	21.05	22.00
	CP-OFDM 64QAM	1	1	19.32	19.54	19.77	20.50
	CP-OFDM 256QAM	1	1	16.27	16.37	16.27	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	20.49	20.85	21.03	22.00
		1	131	20.65	20.51	20.40	22.00
		64	32	21.08	21.12	20.68	22.00
		128	0	20.75	20.95	20.85	22.00
	DFT-s-OFDM QPSK	1	1	20.78	20.90	20.88	22.00
		1	131	20.33	20.59	20.57	22.00
		64	32	21.04	21.00	20.90	22.00
		128	0	20.89	21.03	20.73	22.00
	DFT-s-OFDM 16QAM	1	1	20.51	20.57	20.73	22.00
		64	32	21.22	21.16	20.89	22.00
	DFT-s-OFDM 64QAM	1	1	20.00	20.14	20.30	21.50
		64	32	20.78	20.56	20.34	21.50
	DFT-s-OFDM	1	1	18.74	18.72	19.01	19.50

	256QAM	64	32	18.43	18.79	18.38	19.50
	CP-OFDM QPSK	1	1	21.00	20.80	21.10	22.00
	CP-OFDM 16QAM	1	1	20.92	21.04	21.31	22.00
	CP-OFDM 64QAM	1	1	19.66	19.68	19.63	20.50
	CP-OFDM 256QAM	1	1	16.17	16.27	16.49	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	20.65	20.53	20.75	22.00
		1	158	20.33	20.33	20.34	22.00
		80	40	20.94	21.10	20.76	22.00
		160	0	20.83	20.75	20.65	22.00
	DFT-s-OFDM QPSK	1	1	20.56	20.82	20.80	22.00
		1	158	20.17	20.45	20.41	22.00
		80	40	21.14	21.14	20.66	22.00
		160	0	20.69	20.93	20.59	22.00
	DFT-s-OFDM 16QAM	1	1	20.25	20.65	20.73	22.00
		80	40	21.00	21.06	20.63	22.00
	DFT-s-OFDM 64QAM	1	1	19.96	20.10	20.26	21.50
		80	40	20.62	20.54	20.48	21.50
	DFT-s-OFDM 256QAM	1	1	18.62	18.76	19.01	19.50
		80	40	18.37	18.65	18.16	19.50
	CP-OFDM QPSK	1	1	20.98	20.98	21.10	22.00
	CP-OFDM 16QAM	1	1	20.76	20.96	21.35	22.00
	CP-OFDM 64QAM	1	1	19.62	19.44	19.53	20.50
	CP-OFDM 256QAM	1	1	16.29	16.05	16.33	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	20.55	20.73	20.91	22.00
		1	214	20.51	20.47	20.48	22.00
		108	54	21.10	21.06	20.76	22.00
		216	0	20.85	20.93	20.71	22.00
	DFT-s-OFDM QPSK	1	1	20.74	20.76	20.96	22.00
		1	214	20.31	20.51	20.53	22.00
		108	54	21.08	21.10	20.80	22.00
		216	0	20.77	20.95	20.75	22.00
	DFT-s-OFDM 16QAM	1	1	20.35	20.55	20.73	22.00
		108	54	21.08	21.16	20.83	22.00
	DFT-s-OFDM 64QAM	1	1	19.94	20.10	20.30	21.50
		108	54	20.74	20.66	20.38	21.50
	DFT-s-OFDM 256QAM	1	1	18.80	18.80	18.97	19.50
		108	54	18.53	18.63	18.36	19.50
	CP-OFDM QPSK	1	1	20.98	20.88	21.06	22.00
	CP-OFDM 16QAM	1	1	20.94	21.12	21.29	22.00

	CP-OFDM 64QAM	1	1	19.56	19.52	19.69	20.50
	CP-OFDM 256QAM	1	1	16.21	16.13	16.33	17.50

n66 NSA							
Normal Power&Receiver on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	21.99	22.27	22.25	23.50
		1	23	21.84	22.18	22.02	23.50
		12	6	23.00	22.92	22.64	23.50
		25	0	21.88	21.86	22.26	22.50
	DFT-s-OFDM QPSK	1	1	21.77	22.18	22.64	23.50
		1	23	22.56	21.98	22.08	23.50
		12	6	22.34	22.69	22.28	23.50
		25	0	21.36	21.85	21.32	22.50
	DFT-s-OFDM 16QAM	1	1	20.69	20.83	20.75	22.50
		12	6	21.60	21.70	21.84	22.50
	DFT-s-OFDM 64QAM	1	1	19.44	19.24	19.54	21.00
		12	6	20.62	20.70	20.64	21.00
	DFT-s-OFDM 256QAM	1	1	18.07	18.29	18.19	19.00
		12	6	18.27	18.21	18.25	19.00
	CP-OFDM QPSK	1	1	20.62	20.54	20.76	22.00
	CP-OFDM 16QAM	1	1	20.53	20.73	20.65	21.50
	CP-OFDM 64QAM	1	1	19.28	18.94	19.00	20.00
	CP-OFDM 256QAM	1	1	15.61	15.21	15.35	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	21.79	22.19	22.15	23.50
		1	50	21.72	22.06	21.92	23.50
		25	12	22.92	22.68	22.62	23.50
		50	0	22.10	22.02	22.38	22.50
	DFT-s-OFDM QPSK	1	1	21.85	22.30	22.64	23.50
		1	50	22.64	22.00	21.88	23.50
		25	12	22.30	22.93	22.46	23.50
		50	0	21.48	21.65	21.48	22.50
	DFT-s-OFDM 16QAM	1	1	20.79	20.83	20.87	22.50
		25	12	21.58	22.02	22.02	22.50
	DFT-s-OFDM 64QAM	1	1	19.38	19.42	19.60	21.00
		25	12	20.40	20.72	20.72	21.00
	DFT-s-OFDM 256QAM	1	1	17.93	18.29	18.25	19.00
		25	12	18.19	18.27	18.33	19.00
	CP-OFDM QPSK	1	1	20.64	20.66	20.84	22.00
	CP-OFDM 16QAM	1	1	20.37	20.45	20.65	21.50

	CP-OFDM 64QAM	1	1	19.30	19.10	18.94	20.00
	CP-OFDM 256QAM	1	1	15.39	15.39	15.39	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	21.83	22.15	22.23	23.50
		1	77	21.84	21.96	21.80	23.50
		36	18	22.88	22.70	22.74	23.50
		75	0	21.96	21.96	22.32	22.50
	DFT-s-OFDM QPSK	1	1	21.79	22.18	22.48	23.50
		1	77	22.68	22.10	21.98	23.50
		36	18	22.36	22.85	22.36	23.50
		75	0	21.34	21.67	21.38	22.50
	DFT-s-OFDM 16QAM	1	1	20.85	20.73	20.73	22.50
		36	18	21.68	21.86	22.00	22.50
	DFT-s-OFDM 64QAM	1	1	19.42	19.42	19.42	21.00
		36	18	20.44	20.54	20.54	21.00
	DFT-s-OFDM 256QAM	1	1	17.95	18.13	18.11	19.00
		36	18	18.25	18.23	18.35	19.00
	CP-OFDM QPSK	1	1	20.76	20.68	20.86	22.00
	CP-OFDM 16QAM	1	1	20.49	20.51	20.75	21.50
	CP-OFDM 64QAM	1	1	19.14	18.96	18.90	20.00
	CP-OFDM 256QAM	1	1	15.43	15.37	15.47	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	22.11	21.99	22.35	23.50
		1	104	22.06	21.90	22.02	23.50
		50	25	22.92	22.70	22.88	23.50
		100	0	22.10	22.12	22.24	22.50
	DFT-s-OFDM QPSK	1	1	21.87	22.04	22.64	23.50
		1	104	22.74	22.10	22.12	23.50
		50	25	22.40	22.85	22.56	23.50
		100	0	21.48	21.63	21.28	22.50
	DFT-s-OFDM 16QAM	1	1	20.89	20.93	20.81	22.50
		50	25	21.92	22.02	21.92	22.50
	DFT-s-OFDM 64QAM	1	1	19.62	19.46	19.34	21.00
		50	25	20.66	20.56	20.64	21.00
	DFT-s-OFDM 256QAM	1	1	18.07	18.17	18.13	19.00
		50	25	18.37	18.51	18.59	19.00
	CP-OFDM QPSK	1	1	20.84	20.92	20.80	22.00
	CP-OFDM 16QAM	1	1	20.63	20.41	20.73	21.50
	CP-OFDM 64QAM	1	1	18.98	18.84	19.16	20.00
	CP-OFDM 256QAM	1	1	15.45	15.51	15.63	17.00
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up

		allocation		344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	22.03	22.17	22.37	23.50
		1	131	21.92	22.08	22.06	23.50
		64	32	22.78	22.94	22.58	23.50
		128	0	22.16	22.24	22.26	22.50
	DFT-s-OFDM QPSK	1	1	21.73	22.04	22.76	23.50
		1	131	22.76	21.86	21.98	23.50
		64	32	22.66	22.75	22.58	23.50
		128	0	21.42	21.81	21.52	22.50
	DFT-s-OFDM 16QAM	1	1	20.97	21.03	20.91	22.50
		64	32	21.74	21.76	21.98	22.50
	DFT-s-OFDM 64QAM	1	1	19.64	19.72	19.52	21.00
		64	32	20.36	20.40	20.54	21.00
	DFT-s-OFDM 256QAM	1	1	18.19	18.25	18.17	19.00
		64	32	18.53	18.41	18.37	19.00
	CP-OFDM QPSK	1	1	20.98	20.86	20.68	22.00
	CP-OFDM 16QAM	1	1	20.63	20.35	20.59	21.50
	CP-OFDM 64QAM	1	1	19.26	19.02	18.90	20.00
	CP-OFDM 256QAM	1	1	15.67	15.63	15.67	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	22.19	22.05	22.25	23.50
		1	158	22.04	22.10	21.94	23.50
		80	40	22.88	22.84	22.68	23.50
		160	0	22.22	22.14	22.38	22.50
	DFT-s-OFDM QPSK	1	1	21.79	22.20	22.64	23.50
		1	158	22.84	21.98	22.16	23.50
		80	40	22.46	22.79	22.54	23.50
		160	0	21.38	21.49	21.42	22.50
	DFT-s-OFDM 16QAM	1	1	21.11	20.89	20.95	22.50
		80	40	21.94	21.78	21.80	22.50
	DFT-s-OFDM 64QAM	1	1	19.66	19.68	19.40	21.00
		80	40	20.64	20.60	20.44	21.00
	DFT-s-OFDM 256QAM	1	1	18.05	18.09	18.37	19.00
		80	40	18.41	18.51	18.63	19.00
	CP-OFDM QPSK	1	1	20.96	20.66	20.94	22.00
	CP-OFDM 16QAM	1	1	20.51	20.63	20.69	21.50
	CP-OFDM 64QAM	1	1	19.02	19.00	18.94	20.00
	CP-OFDM 256QAM	1	1	15.51	15.59	15.61	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	22.03	22.09	22.21	23.50
		1	214	22.00	22.00	21.96	23.50

		108	54	22.90	22.80	22.74	23.50
		216	0	22.14	22.12	22.30	22.50
	DFT-s-OFDM QPSK	1	1	21.85	22.10	22.60	23.50
		1	214	22.70	22.00	22.10	23.50
		108	54	22.48	22.81	22.42	23.50
		216	0	21.40	21.61	21.34	22.50
	DFT-s-OFDM 16QAM	1	1	20.99	20.91	20.87	22.50
		108	54	21.82	21.88	21.92	22.50
	DFT-s-OFDM 64QAM	1	1	19.52	19.50	19.40	21.00
		108	54	20.52	20.44	20.52	21.00
	DFT-s-OFDM 256QAM	1	1	18.07	18.19	18.23	19.00
		108	54	18.37	18.37	18.45	19.00
	CP-OFDM QPSK	1	1	20.88	20.78	20.86	22.00
	CP-OFDM 16QAM	1	1	20.49	20.51	20.65	21.50
	CP-OFDM 64QAM	1	1	19.04	18.92	19.04	20.00
	CP-OFDM 256QAM	1	1	15.53	15.55	15.49	17.00

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Receiver off--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.14	22.06	22.26	22.50
		1	23	21.83	21.83	21.51	22.50
		12	6	21.69	21.85	21.97	22.50
		25	0	21.59	22.15	21.87	22.50
	DFT-s-OFDM QPSK	1	1	21.53	22.23	21.92	22.50
		1	23	21.99	20.86	20.76	22.50
		12	6	21.78	22.08	21.85	22.50
		25	0	21.95	22.07	21.94	22.50
	DFT-s-OFDM 16QAM	1	1	21.89	22.01	21.93	22.50
		12	6	21.68	21.66	22.30	22.50
	DFT-s-OFDM 64QAM	1	1	21.16	20.98	21.08	22.00
		12	6	20.99	21.31	20.75	22.00
	DFT-s-OFDM 256QAM	1	1	19.81	19.73	19.65	20.00
		12	6	18.90	19.10	19.12	20.00
	CP-OFDM QPSK	1	1	21.90	22.30	22.34	22.50
	CP-OFDM 16QAM	1	1	21.82	22.42	22.08	22.50
	CP-OFDM 64QAM	1	1	20.94	20.72	20.38	21.00
	CP-OFDM 256QAM	1	1	17.04	16.96	17.16	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	22.04	21.92	22.08	22.50
		1	50	21.69	21.77	21.57	22.50

		25	12	21.69	21.93	22.03	22.50
		50	0	21.71	22.07	21.77	22.50
	DFT-s-OFDM QPSK	1	1	21.39	22.19	21.82	22.50
		1	50	22.09	20.96	20.88	22.50
		25	12	21.86	22.12	21.89	22.50
		50	0	21.77	22.01	21.82	22.50
	DFT-s-OFDM 16QAM	1	1	21.97	21.83	21.79	22.50
		25	12	21.60	21.78	22.12	22.50
	DFT-s-OFDM 64QAM	1	1	21.06	20.96	20.94	22.00
		25	12	20.85	21.13	20.85	22.00
	DFT-s-OFDM 256QAM	1	1	19.69	19.85	19.65	20.00
		25	12	18.96	18.92	19.04	20.00
	CP-OFDM QPSK	1	1	21.96	22.20	22.20	22.50
	CP-OFDM 16QAM	1	1	21.86	22.28	22.00	22.50
	CP-OFDM 64QAM	1	1	20.76	20.72	20.42	21.00
	CP-OFDM 256QAM	1	1	16.90	16.86	17.18	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.08	22.22	21.98	22.50
		1	77	21.97	21.73	21.69	22.50
		36	18	21.77	21.87	22.05	22.50
		75	0	22.11	21.85	21.71	22.50
	DFT-s-OFDM QPSK	1	1	21.51	22.21	22.10	22.50
		1	77	22.11	21.06	21.04	22.50
		36	18	22.00	22.08	22.01	22.50
		75	0	21.95	21.75	21.80	22.50
	DFT-s-OFDM 16QAM	1	1	22.11	22.03	22.07	22.50
		36	18	22.10	21.86	21.96	22.50
	DFT-s-OFDM 64QAM	1	1	21.18	21.04	21.26	22.00
		36	18	21.03	20.89	21.07	22.00
	DFT-s-OFDM 256QAM	1	1	19.81	19.77	19.67	20.00
		36	18	19.02	19.12	19.02	20.00
	CP-OFDM QPSK	1	1	22.40	22.20	22.30	22.50
	CP-OFDM 16QAM	1	1	22.02	22.04	22.04	22.50
	CP-OFDM 64QAM	1	1	20.50	20.52	20.32	21.00
	CP-OFDM 256QAM	1	1	17.14	17.10	17.26	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	21.94	22.04	22.10	22.50
		1	104	21.83	21.63	21.63	22.50
		50	25	21.61	22.01	21.79	22.50
		100	0	21.91	21.69	21.73	22.50
	DFT-s-OFDM	1	1	21.39	21.95	22.02	22.50

	QPSK	1	104	21.99	20.86	21.18	22.50
		50	25	21.80	21.92	22.01	22.50
		100	0	21.99	21.83	21.92	22.50
	DFT-s-OFDM 16QAM	1	1	22.07	21.91	21.73	22.50
		50	25	21.94	21.86	22.08	22.50
	DFT-s-OFDM 64QAM	1	1	21.06	21.04	21.12	22.00
		50	25	21.17	21.01	20.85	22.00
	DFT-s-OFDM 256QAM	1	1	19.61	19.61	19.55	20.00
		50	25	18.92	18.94	18.86	20.00
	CP-OFDM QPSK	1	1	22.32	22.38	22.20	22.50
	CP-OFDM 16QAM	1	1	22.06	22.08	21.94	22.50
	CP-OFDM 64QAM	1	1	20.52	20.26	20.34	21.00
	CP-OFDM 256QAM	1	1	17.26	16.90	17.04	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	22.14	22.14	22.12	22.50
		1	131	21.93	21.65	21.81	22.50
		64	32	21.83	21.81	21.77	22.50
		128	0	22.13	21.83	21.65	22.50
	DFT-s-OFDM QPSK	1	1	21.21	22.19	21.98	22.50
		1	131	21.99	20.82	21.04	22.50
		64	32	21.98	21.90	21.93	22.50
		128	0	22.01	21.85	22.02	22.50
	DFT-s-OFDM 16QAM	1	1	22.11	22.15	21.89	22.50
		64	32	21.82	22.00	22.16	22.50
	DFT-s-OFDM 64QAM	1	1	21.00	21.06	21.16	22.00
		64	32	21.23	21.01	20.93	22.00
	DFT-s-OFDM 256QAM	1	1	19.85	19.83	19.53	20.00
		64	32	19.14	19.06	19.28	20.00
	CP-OFDM QPSK	1	1	22.24	22.10	22.15	22.50
	CP-OFDM 16QAM	1	1	21.88	22.20	22.12	22.50
	CP-OFDM 64QAM	1	1	20.54	20.40	20.24	21.00
	CP-OFDM 256QAM	1	1	17.38	16.92	17.30	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	22.12	22.20	22.08	22.50
		1	158	22.01	21.73	21.59	22.50
		80	40	21.91	22.07	21.83	22.50
		160	0	22.03	21.91	21.83	22.50
	DFT-s-OFDM QPSK	1	1	21.41	21.97	21.98	22.50
		1	158	22.21	21.12	21.04	22.50
		80	40	22.08	22.10	21.99	22.50
		160	0	21.81	21.87	21.84	22.50

	DFT-s-OFDM 16QAM	1	1	21.97	21.93	21.93	22.50
		80	40	22.00	21.98	22.10	22.50
	DFT-s-OFDM 64QAM	1	1	21.28	20.92	21.32	22.00
		80	40	21.17	20.99	21.19	22.00
	DFT-s-OFDM 256QAM	1	1	19.63	19.79	19.53	20.00
		80	40	18.88	18.98	19.16	20.00
	CP-OFDM QPSK	1	1	22.30	22.38	22.46	22.50
	CP-OFDM 16QAM	1	1	22.10	21.96	22.12	22.50
	CP-OFDM 64QAM	1	1	20.44	20.34	20.52	21.00
	CP-OFDM 256QAM	1	1	17.18	17.22	17.18	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	22.06	22.10	22.00	22.50
		1	214	21.93	21.75	21.71	22.50
		108	54	21.81	21.91	21.95	22.50
		216	0	21.97	21.79	21.81	22.50
	DFT-s-OFDM QPSK	1	1	21.39	22.05	22.06	22.50
		1	214	22.11	20.94	21.12	22.50
		108	54	22.00	21.92	21.93	22.50
		216	0	21.91	21.83	21.84	22.50
	DFT-s-OFDM 16QAM	1	1	22.07	21.93	21.91	22.50
		108	54	21.96	21.96	22.06	22.50
	DFT-s-OFDM 64QAM	1	1	21.14	21.00	21.16	22.00
		108	54	21.13	20.99	21.05	22.00
	DFT-s-OFDM 256QAM	1	1	19.69	19.67	19.63	20.00
		108	54	18.98	18.98	19.06	20.00
	CP-OFDM QPSK	1	1	22.28	22.28	22.34	22.50
	CP-OFDM 16QAM	1	1	22.02	22.00	22.10	22.50
	CP-OFDM 64QAM	1	1	20.50	20.42	20.36	21.00
	CP-OFDM 256QAM	1	1	17.20	17.06	17.16	18.00

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Hotspot on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.65	20.61	20.49	21.50
		1	23	20.36	20.52	20.40	21.50
		12	6	20.92	21.38	21.04	21.50
		25	0	21.18	20.90	21.24	21.50
	DFT-s-OFDM QPSK	1	1	20.42	20.70	21.01	21.50
		1	23	20.86	20.50	20.10	21.50
		12	6	21.41	21.41	21.00	21.50
		25	0	21.19	21.01	21.02	21.50

	DFT-s-OFDM 16QAM	1	1	20.41	20.83	20.55	21.50
		12	6	20.92	21.02	20.76	21.50
	DFT-s-OFDM 64QAM	1	1	20.54	20.72	20.18	21.50
		12	6	21.05	21.23	21.25	21.50
	DFT-s-OFDM 256QAM	1	1	20.06	19.95	20.04	20.50
		12	6	20.12	20.40	19.98	20.50
	CP-OFDM QPSK	1	1	20.88	20.82	20.62	21.50
	CP-OFDM 16QAM	1	1	20.60	20.98	21.08	21.50
	CP-OFDM 64QAM	1	1	20.97	20.99	21.21	21.50
	CP-OFDM 256QAM	1	1	17.71	17.53	17.65	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	20.49	20.71	20.67	21.50
		1	50	20.50	20.32	20.30	21.50
		25	12	21.06	21.34	21.16	21.50
		50	0	21.16	21.06	21.14	21.50
	DFT-s-OFDM QPSK	1	1	20.22	20.50	21.03	21.50
		1	50	20.98	20.48	20.18	21.50
		25	12	21.25	21.21	20.88	21.50
		50	0	21.09	21.13	20.82	21.50
	DFT-s-OFDM 16QAM	1	1	20.31	20.65	20.53	21.50
		25	12	21.06	21.20	20.90	21.50
	DFT-s-OFDM 64QAM	1	1	20.56	20.64	20.26	21.50
		25	12	20.85	21.01	21.35	21.50
	DFT-s-OFDM 256QAM	1	1	20.40	20.32	20.18	20.50
		25	12	20.04	20.40	20.08	20.50
	CP-OFDM QPSK	1	1	20.88	21.00	20.64	21.50
	CP-OFDM 16QAM	1	1	20.68	20.98	21.02	21.50
	CP-OFDM 64QAM	1	1	20.77	21.03	21.01	21.50
	CP-OFDM 256QAM	1	1	17.53	17.47	17.67	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.75	20.55	20.77	21.50
		1	77	20.52	20.44	20.38	21.50
		36	18	20.98	21.18	21.22	21.50
		75	0	20.88	21.14	21.08	21.50
	DFT-s-OFDM QPSK	1	1	20.38	20.56	20.97	21.50
		1	77	20.98	20.46	20.08	21.50
		36	18	21.01	20.97	20.82	21.50
		75	0	20.93	21.23	20.94	21.50
	DFT-s-OFDM 16QAM	1	1	20.47	20.35	20.63	21.50
		36	18	21.04	21.06	21.00	21.50
	DFT-s-OFDM	1	1	20.78	20.54	20.50	21.50

	64QAM	36	18	21.19	21.23	21.27	21.50
	DFT-s-OFDM	1	1	20.18	20.18	20.40	20.50
	256QAM	36	18	19.96	20.30	20.24	20.50
	CP-OFDM QPSK	1	1	20.80	20.88	20.88	21.50
	CP-OFDM 16QAM	1	1	20.90	21.14	21.10	21.50
	CP-OFDM 64QAM	1	1	20.77	20.83	20.97	21.50
	CP-OFDM 256QAM	1	1	17.71	17.51	17.61	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	20.49	20.69	20.49	21.50
		1	104	20.50	20.52	20.38	21.50
		50	25	21.04	20.90	21.22	21.50
		100	0	20.84	21.18	21.10	21.50
	DFT-s-OFDM QPSK	1	1	20.32	20.58	21.11	21.50
		1	104	21.08	20.40	20.02	21.50
		50	25	21.03	20.91	20.78	21.50
		100	0	20.97	21.05	20.64	21.50
	DFT-s-OFDM 16QAM	1	1	20.53	20.55	20.57	21.50
		50	25	21.14	21.02	20.94	21.50
	DFT-s-OFDM 64QAM	1	1	20.60	20.36	20.48	21.50
		50	25	20.91	20.99	21.25	21.50
	DFT-s-OFDM 256QAM	1	1	20.00	19.98	20.30	20.50
		50	25	19.92	20.28	19.90	20.50
	CP-OFDM QPSK	1	1	20.98	20.88	20.72	21.50
	CP-OFDM 16QAM	1	1	20.78	21.02	20.94	21.50
	CP-OFDM 64QAM	1	1	20.81	21.03	20.97	21.50
	CP-OFDM 256QAM	1	1	17.51	17.65	17.69	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	20.49	20.83	20.77	21.50
		1	131	20.68	20.60	20.38	21.50
		64	32	21.20	21.02	21.24	21.50
		128	0	20.98	21.12	21.16	21.50
	DFT-s-OFDM QPSK	1	1	20.56	20.50	21.19	21.50
		1	131	21.26	20.72	20.24	21.50
		64	32	21.11	21.05	20.98	21.50
		128	0	20.85	21.09	20.96	21.50
	DFT-s-OFDM 16QAM	1	1	20.37	20.51	20.53	21.50
		64	32	21.26	21.28	20.86	21.50
	DFT-s-OFDM 64QAM	1	1	20.72	20.76	20.60	21.50
		64	32	21.29	21.01	21.33	21.50
	DFT-s-OFDM 256QAM	1	1	20.08	20.20	20.22	20.50
		64	32	20.18	20.28	20.12	20.50

	CP-OFDM QPSK	1	1	20.78	20.96	20.70	21.50
	CP-OFDM 16QAM	1	1	20.94	21.22	21.00	21.50
	CP-OFDM 64QAM	1	1	20.99	21.05	20.93	21.50
	CP-OFDM 256QAM	1	1	17.67	17.47	17.61	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	20.69	20.59	20.71	21.50
		1	158	20.68	20.64	20.48	21.50
		80	40	21.10	20.98	21.28	21.50
		160	0	21.04	20.96	20.94	21.50
	DFT-s-OFDM QPSK	1	1	20.56	20.76	21.05	21.50
		1	158	21.16	20.58	20.04	21.50
		80	40	21.15	20.93	20.80	21.50
		160	0	20.95	21.23	20.70	21.50
	DFT-s-OFDM 16QAM	1	1	20.33	20.37	20.59	21.50
		80	40	21.22	21.02	21.10	21.50
	DFT-s-OFDM 64QAM	1	1	20.58	20.66	20.42	21.50
		80	40	21.13	21.17	21.33	21.50
	DFT-s-OFDM 256QAM	1	1	20.16	20.14	20.32	20.50
		80	40	20.22	20.44	20.14	20.50
	CP-OFDM QPSK	1	1	21.00	20.90	20.64	21.50
	CP-OFDM 16QAM	1	1	20.96	20.94	21.00	21.50
	CP-OFDM 64QAM	1	1	20.91	21.03	20.87	21.50
	CP-OFDM 256QAM	1	1	17.57	17.59	17.77	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	20.61	20.63	20.69	21.50
		1	214	20.62	20.52	20.46	21.50
		108	54	21.08	21.10	21.14	21.50
		216	0	20.98	21.08	21.06	21.50
	DFT-s-OFDM QPSK	1	1	20.40	20.64	21.01	21.50
		1	214	21.04	20.54	20.08	21.50
		108	54	20.99	21.03	20.92	21.50
		216	0	20.89	21.09	20.80	21.50
	DFT-s-OFDM 16QAM	1	1	20.43	20.45	20.63	21.50
		108	54	21.12	21.06	21.02	21.50
	DFT-s-OFDM 64QAM	1	1	20.66	20.54	20.42	21.50
		108	54	21.09	21.11	21.15	21.50
	DFT-s-OFDM 256QAM	1	1	20.10	20.18	20.36	20.50
		108	54	20.06	20.38	20.10	20.50
	CP-OFDM QPSK	1	1	20.90	20.78	20.76	21.50
	CP-OFDM 16QAM	1	1	20.92	21.00	21.08	21.50
	CP-OFDM 64QAM	1	1	20.85	20.93	20.95	21.50

	CP-OFDM 256QAM	1	1	17.55	17.55	17.69	18.50
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Normal Power--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	25.46	25.82	25.48	27.00
		1	49	26.48	26.38	26.26	27.00
		25	12	26.24	26.22	26.42	27.00
		50	0	25.53	25.51	25.47	26.00
	DFT-s-OFDM QPSK	1	1	25.17	25.27	25.43	27.00
		1	49	26.10	26.10	26.36	27.00
		25	12	26.12	25.86	26.18	27.00
		50	0	25.10	24.68	24.78	26.00
	DFT-s-OFDM 16QAM	1	1	23.99	23.97	23.89	25.50
		25	12	25.26	24.94	24.92	25.50
	DFT-s-OFDM 64QAM	1	1	22.51	23.11	22.47	24.00
		25	12	23.42	23.40	23.24	24.00
	DFT-s-OFDM 256QAM	1	1	21.46	21.28	20.96	22.50
		25	12	21.47	21.63	21.51	22.50
	CP-OFDM QPSK	1	1	24.41	23.75	23.99	25.00
	CP-OFDM 16QAM	1	1	23.51	23.65	23.55	25.00
	CP-OFDM 64QAM	1	1	22.11	22.05	22.03	23.00
	CP-OFDM 256QAM	1	1	18.82	18.50	18.72	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	25.66	25.24	25.28	27.00
		1	76	26.54	26.52	26.28	27.00
		36	18	26.08	26.16	26.20	27.00
		75	0	25.29	25.57	25.47	26.00
	DFT-s-OFDM QPSK	1	1	25.27	25.43	25.11	27.00
		1	76	26.10	26.36	26.44	27.00
		36	18	26.02	25.92	26.16	27.00
		75	0	24.96	24.74	24.84	26.00
	DFT-s-OFDM 16QAM	1	1	23.99	24.03	24.09	25.50
		36	18	25.26	25.12	25.04	25.50
	DFT-s-OFDM 64QAM	1	1	22.63	23.05	22.67	24.00
		36	18	23.56	23.68	23.44	24.00
	DFT-s-OFDM 256QAM	1	1	21.34	21.42	20.90	22.50
		36	18	21.45	21.63	21.63	22.50
	CP-OFDM QPSK	1	1	24.47	23.59	24.09	25.00
	CP-OFDM 16QAM	1	1	23.61	23.61	23.35	25.00
	CP-OFDM 64QAM	1	1	21.97	21.63	21.81	23.00

	CP-OFDM 256QAM	1	1	18.88	18.44	18.84	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	25.54	25.60	25.42	27.00
		1	104	26.50	26.28	26.30	27.00
		50	25	26.10	26.00	26.20	27.00
		100	0	25.41	25.47	25.51	26.00
	DFT-s-OFDM QPSK	1	1	25.31	25.33	25.25	27.00
		1	104	26.18	26.22	26.26	27.00
		50	25	26.02	25.90	26.20	27.00
		100	0	24.88	24.76	24.68	26.00
	DFT-s-OFDM 16QAM	1	1	24.07	23.87	23.97	25.50
		50	25	25.26	24.96	25.04	25.50
	DFT-s-OFDM 64QAM	1	1	22.57	23.01	22.65	24.00
		50	25	23.44	23.50	23.34	24.00
	DFT-s-OFDM 256QAM	1	1	21.26	21.44	21.08	22.50
		50	25	21.35	21.59	21.59	22.50
	CP-OFDM QPSK	1	1	24.27	23.81	24.15	25.00
	CP-OFDM 16QAM	1	1	23.69	23.71	23.65	25.00
	CP-OFDM 64QAM	1	1	21.95	21.93	21.93	23.00
	CP-OFDM 256QAM	1	1	18.94	18.62	18.84	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631666/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	25.60	25.56	25.38	27.00
		1	131	26.38	26.24	26.58	27.00
		64	32	26.10	26.14	26.26	27.00
		128	0	25.57	25.53	25.51	26.00
	DFT-s-OFDM QPSK	1	1	25.35	25.45	25.63	27.00
		1	131	26.32	26.10	26.22	27.00
		64	32	26.06	26.08	25.96	27.00
		128	0	24.84	25.00	24.82	26.00
	DFT-s-OFDM 16QAM	1	1	24.15	24.15	24.23	25.50
		64	32	25.02	25.12	25.04	25.50
	DFT-s-OFDM 64QAM	1	1	22.85	22.79	22.79	24.00
		64	32	23.52	23.72	23.40	24.00
	DFT-s-OFDM 256QAM	1	1	21.34	21.32	21.44	22.50
		64	32	21.51	21.35	21.61	22.50
	CP-OFDM QPSK	1	1	24.01	24.03	24.03	25.00
	CP-OFDM 16QAM	1	1	23.87	23.71	23.47	25.00
	CP-OFDM 64QAM	1	1	21.93	22.13	22.15	23.00
	CP-OFDM 256QAM	1	1	18.76	18.78	18.80	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	

60MHz	DFT-s-OFDM BPSK	1	1	25.30	25.48	25.58	27.00
		1	160	26.24	26.26	26.26	27.00
		81	40	25.98	25.88	26.16	27.00
		162	0	25.49	25.39	25.51	26.00
	DFT-s-OFDM QPSK	1	1	25.39	25.39	25.49	27.00
		1	160	26.30	26.16	26.14	27.00
		81	40	26.18	25.82	25.92	27.00
		162	0	25.00	24.68	24.70	26.00
	DFT-s-OFDM 16QAM	1	1	24.09	24.19	24.19	25.50
		81	40	25.20	24.86	24.92	25.50
	DFT-s-OFDM 64QAM	1	1	22.69	22.65	22.61	24.00
		81	40	23.30	23.42	23.24	24.00
	DFT-s-OFDM 256QAM	1	1	21.26	21.24	21.20	22.50
		81	40	21.51	21.41	21.39	22.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	25.50	25.58	25.48	27.00
		1	187	26.46	26.36	26.44	27.00
		92	45	26.06	26.22	26.36	27.00
		180	0	25.59	25.53	25.71	26.00
	DFT-s-OFDM QPSK	1	1	25.29	25.73	25.63	27.00
		1	187	26.32	26.36	26.16	27.00
		92	45	26.00	26.08	26.16	27.00
		180	0	24.90	24.88	24.78	26.00
	DFT-s-OFDM 16QAM	1	1	24.29	24.23	24.19	25.50
		92	46	25.00	24.84	25.14	25.50
	DFT-s-OFDM 64QAM	1	1	22.73	22.85	22.93	24.00
		92	46	23.36	23.56	23.20	24.00
	DFT-s-OFDM 256QAM	1	1	21.36	21.42	21.22	22.50
		92	46	21.43	21.55	21.53	22.50
	CP-OFDM QPSK	1	1	23.93	23.81	23.97	25.00
	CP-OFDM 16QAM	1	1	23.53	23.67	23.57	25.00
	CP-OFDM 64QAM	1	1	21.87	22.29	22.09	23.00
	CP-OFDM 256QAM	1	1	18.96	18.72	18.74	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	25.54	25.44	25.54	27.00
		1	215	26.30	26.38	26.58	27.00
		108	54	26.06	25.98	26.28	27.00

		216	0	25.57	25.33	25.71	26.00
	DFT-s-OFDM QPSK	1	1	25.37	25.51	25.57	27.00
		1	215	26.28	26.20	26.42	27.00
		108	54	26.08	26.10	25.88	27.00
		216	0	25.04	24.98	25.02	26.00
	DFT-s-OFDM 16QAM	1	1	24.21	24.05	24.19	25.50
		108	54	25.22	25.14	25.02	25.50
	DFT-s-OFDM 64QAM	1	1	22.81	22.73	22.73	24.00
		108	54	23.52	23.54	23.30	24.00
	DFT-s-OFDM 256QAM	1	1	21.52	21.08	21.24	22.50
		108	54	21.61	21.31	21.35	22.50
	CP-OFDM QPSK	1	1	24.15	23.93	24.11	25.00
	CP-OFDM 16QAM	1	1	23.71	23.59	23.71	25.00
	CP-OFDM 64QAM	1	1	22.09	22.21	22.07	23.00
	CP-OFDM 256QAM	1	1	18.98	18.86	18.86	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	25.50	25.40	25.48	27.00
		1	243	26.28	26.26	26.44	27.00
		120	60	26.06	26.04	26.16	27.00
		243	0	25.67	25.41	25.53	26.00
	DFT-s-OFDM QPSK	1	1	25.33	25.55	25.51	27.00
		1	243	26.30	26.20	26.24	27.00
		120	60	26.14	25.94	26.00	27.00
		243	0	24.94	24.84	24.88	26.00
	DFT-s-OFDM 16QAM	1	1	24.17	24.11	24.15	25.50
		120	60	25.10	24.96	24.96	25.50
	DFT-s-OFDM 64QAM	1	1	22.77	22.73	22.79	24.00
		120	60	23.50	23.58	23.32	24.00
	DFT-s-OFDM 256QAM	1	1	21.34	21.20	21.32	22.50
		120	60	21.55	21.43	21.47	22.50
	CP-OFDM QPSK	1	1	24.09	23.95	24.07	25.00
	CP-OFDM 16QAM	1	1	23.71	23.61	23.55	25.00
	CP-OFDM 64QAM	1	1	21.93	22.15	22.01	23.00
	CP-OFDM 256QAM	1	1	18.86	18.78	18.90	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	25.52	/	27.00
		1	271	/	26.30	/	27.00
		135	67	/	26.16	/	27.00
		270	0	/	25.49	/	26.00
	DFT-s-OFDM QPSK	1	1	/	25.41	/	27.00
		1	271	/	26.20	/	27.00

		135	67	/	26.04	/	27.00
		270	0	/	24.94	/	26.00
	DFT-s-OFDM 16QAM	1	1	/	24.13	/	25.50
		135	67	/	24.92	/	25.50
	DFT-s-OFDM 64QAM	1	1	/	22.65	/	24.00
		135	67	/	23.40	/	24.00
	DFT-s-OFDM 256QAM	1	1	/	21.30	/	22.50
		135	67	/	21.43	/	22.50
	CP-OFDM QPSK	1	1	/	23.93	/	25.00
	CP-OFDM 16QAM	1	1	/	23.61	/	25.00
	CP-OFDM 64QAM	1	1	/	22.01	/	23.00
	CP-OFDM 256QAM	1	1	/	18.82	/	20.00

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Normal Power--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	656000/3840	664666/3970	
20MHz	DFT-s-OFDM BPSK	1	1	26.22	25.88	26.32	27.00
		1	49	25.54	25.62	25.58	27.00
		25	12	26.20	26.14	25.90	27.00
		50	0	25.53	25.51	25.55	26.00
	DFT-s-OFDM QPSK	1	1	25.82	25.84	25.70	27.00
		1	49	25.99	25.58	26.52	27.00
		25	12	26.31	25.69	26.28	27.00
		50	0	25.24	24.92	25.25	26.00
	DFT-s-OFDM 16QAM	1	1	24.79	24.71	24.65	25.50
		25	12	24.80	24.96	24.94	25.50
	DFT-s-OFDM 64QAM	1	1	23.20	23.36	23.14	24.00
		25	12	23.29	23.11	23.27	24.00
	DFT-s-OFDM 256QAM	1	1	21.95	21.61	21.95	22.50
		25	12	21.50	21.10	21.28	22.50
	CP-OFDM QPSK	1	1	24.64	24.48	24.68	25.00
	CP-OFDM 16QAM	1	1	24.07	24.53	24.59	25.00
	CP-OFDM 64QAM	1	1	22.77	22.51	22.51	23.00
	CP-OFDM 256QAM	1	1	19.37	19.37	19.49	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
30MHz	DFT-s-OFDM BPSK	1	1	26.16	26.02	26.44	27.00
		1	76	25.78	25.76	25.48	27.00
		36	18	26.42	26.02	26.16	27.00
		75	0	25.51	25.65	25.55	26.00
	DFT-s-OFDM QPSK	1	1	25.98	25.60	25.54	27.00
		1	76	26.11	25.44	26.30	27.00

		36	18	26.23	25.73	26.44	27.00
		75	0	25.50	25.28	25.25	26.00
	DFT-s-OFDM 16QAM	1	1	24.57	24.75	24.79	25.50
		36	18	25.18	25.16	24.86	25.50
	DFT-s-OFDM 64QAM	1	1	23.46	23.44	23.34	24.00
		36	18	23.21	23.45	23.35	24.00
	DFT-s-OFDM 256QAM	1	1	22.03	21.87	22.31	22.50
		36	18	21.60	21.06	21.46	22.50
	CP-OFDM QPSK	1	1	24.66	24.50	24.60	25.00
	CP-OFDM 16QAM	1	1	24.35	24.55	24.79	25.00
	CP-OFDM 64QAM	1	1	22.53	22.63	22.35	23.00
	CP-OFDM 256QAM	1	1	19.47	19.23	19.55	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	656000/3840	664000/3960	
40MHz	DFT-s-OFDM BPSK	1	1	26.20	25.90	26.44	27.00
		1	104	25.66	25.74	25.72	27.00
		50	25	26.34	26.08	25.98	27.00
		100	0	25.63	25.63	25.43	26.00
	DFT-s-OFDM QPSK	1	1	25.98	25.64	25.54	27.00
		1	104	25.85	25.64	26.34	27.00
		50	25	26.41	25.73	26.56	27.00
		100	0	25.48	25.18	25.37	26.00
	DFT-s-OFDM 16QAM	1	1	24.67	24.85	24.81	25.50
		50	25	24.92	25.04	24.92	25.50
	DFT-s-OFDM 64QAM	1	1	23.34	23.20	23.30	24.00
		50	25	23.41	23.37	23.17	24.00
	DFT-s-OFDM 256QAM	1	1	21.93	21.77	22.07	22.50
		50	25	21.40	21.32	21.56	22.50
	CP-OFDM QPSK	1	1	24.86	24.66	24.58	25.00
	CP-OFDM 16QAM	1	1	24.19	24.39	24.63	25.00
	CP-OFDM 64QAM	1	1	22.69	22.39	22.67	23.00
	CP-OFDM 256QAM	1	1	19.43	19.45	19.57	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648333/3725	656000/3840	663666/3955	
50MHz	DFT-s-OFDM BPSK	1	1	26.28	25.84	26.36	27.00
		1	131	25.66	25.70	25.66	27.00
		64	32	26.34	26.10	26.02	27.00
		128	0	25.45	25.47	25.51	26.00
	DFT-s-OFDM QPSK	1	1	25.82	25.74	25.66	27.00
		1	131	25.95	25.62	26.46	27.00
		64	32	26.27	25.85	26.48	27.00
		128	0	25.30	25.12	25.29	26.00
	DFT-s-OFDM	1	1	24.73	24.69	24.81	25.50

	16QAM	64	32	25.00	24.98	24.84	25.50
	DFT-s-OFDM	1	1	23.34	23.26	23.22	24.00
	64QAM	64	32	23.39	23.29	23.29	24.00
	DFT-s-OFDM	1	1	21.87	21.75	22.13	22.50
	256QAM	64	32	21.42	21.18	21.42	22.50
	CP-OFDM QPSK	1	1	24.80	24.62	24.58	25.00
	CP-OFDM 16QAM	1	1	24.21	24.49	24.57	25.00
	CP-OFDM 64QAM	1	1	22.69	22.49	22.49	23.00
	CP-OFDM 256QAM	1	1	19.29	19.39	19.53	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	656000/3840	663334/3950	
60MHz	DFT-s-OFDM BPSK	1	1	26.28	25.64	26.34	27.00
		1	160	25.70	25.64	25.34	27.00
		81	40	26.36	26.18	26.00	27.00
		162	0	25.25	25.43	25.45	26.00
	DFT-s-OFDM QPSK	1	1	25.54	25.76	25.60	27.00
		1	160	25.81	25.62	26.52	27.00
		81	40	26.29	25.79	26.42	27.00
		162	0	25.34	24.80	25.15	26.00
	DFT-s-OFDM 16QAM	1	1	24.79	24.69	24.77	25.50
		81	40	24.78	24.98	24.52	25.50
	DFT-s-OFDM 64QAM	1	1	23.26	23.20	23.18	24.00
		81	40	23.27	23.21	23.21	24.00
	DFT-s-OFDM 256QAM	1	1	21.73	21.69	21.97	22.50
		81	40	21.30	21.38	21.26	22.50
	CP-OFDM QPSK	1	1	24.74	24.66	24.64	25.00
	CP-OFDM 16QAM	1	1	24.15	24.25	24.45	25.00
	CP-OFDM 64QAM	1	1	22.49	22.53	22.37	23.00
	CP-OFDM 256QAM	1	1	19.15	19.45	19.39	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	656000/3840	663000/3745	
70MHz	DFT-s-OFDM BPSK	1	1	26.20	25.76	26.40	27.00
		1	187	25.90	25.68	25.44	27.00
		92	45	26.32	26.04	25.98	27.00
		180	0	25.29	25.59	25.43	26.00
	DFT-s-OFDM QPSK	1	1	25.74	25.86	25.60	27.00
		1	187	25.69	25.68	26.42	27.00
		92	45	26.21	26.13	26.62	27.00
		180	0	25.10	24.86	25.35	26.00
	DFT-s-OFDM 16QAM	1	1	24.81	24.85	24.73	25.50
		92	46	24.94	24.88	24.90	25.50
	DFT-s-OFDM 64QAM	1	1	23.08	23.04	23.22	24.00
		92	46	23.17	23.53	23.07	24.00

	DFT-s-OFDM 256QAM	1	1	21.87	21.83	22.03	22.50
		92	46	21.60	21.36	21.40	22.50
	CP-OFDM QPSK	1	1	24.50	24.70	24.60	25.00
	CP-OFDM 16QAM	1	1	24.19	24.35	24.37	25.00
	CP-OFDM 64QAM	1	1	22.83	22.75	22.33	23.00
	CP-OFDM 256QAM	1	1	19.25	19.23	19.25	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	656000/3840	662666/3940	
80MHz	DFT-s-OFDM BPSK	1	1	26.04	25.98	26.04	27.00
		1	215	26.00	25.44	25.52	27.00
		108	54	26.46	26.02	25.94	27.00
		216	0	25.59	25.59	25.67	26.00
	DFT-s-OFDM QPSK	1	1	25.74	25.72	25.58	27.00
		1	215	25.87	25.52	26.64	27.00
		108	54	26.29	25.79	26.38	27.00
		216	0	25.28	24.86	25.21	26.00
	DFT-s-OFDM 16QAM	1	1	24.61	24.45	24.79	25.50
		108	54	24.76	25.12	24.56	25.50
	DFT-s-OFDM 64QAM	1	1	23.38	22.90	22.98	24.00
		108	54	23.35	23.35	23.19	24.00
	DFT-s-OFDM 256QAM	1	1	21.91	21.87	22.21	22.50
		108	54	21.10	21.26	21.18	22.50
	CP-OFDM QPSK	1	1	24.52	24.76	24.64	25.00
	CP-OFDM 16QAM	1	1	23.93	24.19	24.55	25.00
	CP-OFDM 64QAM	1	1	22.75	22.35	22.47	23.00
	CP-OFDM 256QAM	1	1	19.43	19.51	19.39	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	656000/3840	662333/3935	
90MHz	DFT-s-OFDM BPSK	1	1	26.10	25.80	26.24	27.00
		1	243	25.86	25.90	25.58	27.00
		120	60	26.18	26.00	26.14	27.00
		243	0	25.53	25.53	25.59	26.00
	DFT-s-OFDM QPSK	1	1	25.60	25.94	25.44	27.00
		1	243	25.79	25.66	26.48	27.00
		120	60	26.53	25.85	26.60	27.00
		243	0	25.16	25.04	25.19	26.00
	DFT-s-OFDM 16QAM	1	1	24.75	24.85	24.65	25.50
		120	60	25.02	25.06	24.84	25.50
	DFT-s-OFDM 64QAM	1	1	23.22	23.22	23.28	24.00
		120	60	23.41	23.37	23.15	24.00
	DFT-s-OFDM 256QAM	1	1	21.75	22.03	22.01	22.50
		120	60	21.52	21.30	21.44	22.50
	CP-OFDM QPSK	1	1	24.74	24.80	24.76	25.00

	CP-OFDM 16QAM	1	1	24.13	24.39	24.31	25.00
	CP-OFDM 64QAM	1	1	22.53	22.71	22.43	23.00
	CP-OFDM 256QAM	1	1	19.45	19.53	19.37	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				650000/3750	656000/3840	662000/3930	
100MHz	DFT-s-OFDM BPSK	1	1	26.20	25.84	26.26	27.00
		1	271	25.72	25.76	25.54	27.00
		135	67	26.30	26.08	25.96	27.00
		270	0	25.37	25.45	25.61	26.00
	DFT-s-OFDM QPSK	1	1	25.66	25.84	25.54	27.00
		1	271	25.79	25.60	26.52	27.00
		135	67	26.37	25.91	26.44	27.00
		270	0	25.26	25.00	25.15	26.00
	DFT-s-OFDM 16QAM	1	1	24.71	24.69	24.77	25.50
		135	67	24.88	25.02	24.70	25.50
	DFT-s-OFDM 64QAM	1	1	23.26	23.10	23.20	24.00
		135	67	23.27	23.39	23.21	24.00
	DFT-s-OFDM 256QAM	1	1	21.85	21.85	22.05	22.50
		135	67	21.46	21.28	21.42	22.50
	CP-OFDM QPSK	1	1	24.64	24.62	24.60	25.00
	CP-OFDM 16QAM	1	1	24.21	24.37	24.41	25.00
	CP-OFDM 64QAM	1	1	22.63	22.59	22.45	23.00
	CP-OFDM 256QAM	1	1	19.29	19.41	19.43	20.00

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Receiver off--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.47	18.69	18.48	20.00
		1	49	19.44	19.12	18.86	20.00
		25	12	18.65	19.01	18.59	20.00
		50	0	18.93	18.51	18.85	20.00
	DFT-s-OFDM QPSK	1	1	18.28	18.08	18.22	20.00
		1	49	19.01	19.35	19.37	20.00
		25	12	18.79	18.95	18.87	20.00
		50	0	18.74	19.16	18.90	20.00
	DFT-s-OFDM 16QAM	1	1	17.99	17.99	18.21	19.50
		25	12	18.69	19.07	18.95	19.50
	DFT-s-OFDM 64QAM	1	1	18.14	17.66	18.00	19.50
		25	12	18.97	18.69	18.73	19.50
	DFT-s-OFDM 256QAM	1	1	19.10	18.64	19.12	19.50
		25	12	18.55	18.99	18.73	19.50
	CP-OFDM QPSK	1	1	18.35	18.55	18.37	19.50

	CP-OFDM 16QAM	1	1	18.46	18.78	18.86	19.50
	CP-OFDM 64QAM	1	1	18.23	18.47	18.29	19.50
	CP-OFDM 256QAM	1	1	17.74	17.74	17.36	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.43	18.59	18.64	20.00
		1	76	19.22	19.10	19.14	20.00
		36	18	18.57	19.05	18.59	20.00
		75	0	18.77	18.87	18.67	20.00
	DFT-s-OFDM QPSK	1	1	18.24	18.10	18.34	20.00
		1	76	19.15	19.05	19.29	20.00
		36	18	18.69	18.99	18.69	20.00
		75	0	18.60	19.06	18.94	20.00
	DFT-s-OFDM 16QAM	1	1	18.13	18.15	18.27	19.50
		36	18	18.99	18.77	18.91	19.50
	DFT-s-OFDM 64QAM	1	1	18.24	17.60	18.00	19.50
		36	18	19.07	18.79	18.93	19.50
	DFT-s-OFDM 256QAM	1	1	18.96	18.62	19.06	19.50
		36	18	18.73	19.23	19.03	19.50
	CP-OFDM QPSK	1	1	18.57	18.33	18.33	19.50
	CP-OFDM 16QAM	1	1	18.46	18.80	18.84	19.50
	CP-OFDM 64QAM	1	1	18.13	18.63	18.43	19.50
	CP-OFDM 256QAM	1	1	17.88	18.02	17.50	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.47	18.53	18.64	20.00
		1	104	19.18	19.08	19.12	20.00
		50	25	18.63	19.01	18.65	20.00
		100	0	18.87	18.71	18.63	20.00
	DFT-s-OFDM QPSK	1	1	18.18	18.12	18.18	20.00
		1	104	19.15	19.15	19.21	20.00
		50	25	18.69	18.89	18.73	20.00
		100	0	18.70	18.98	18.80	20.00
	DFT-s-OFDM 16QAM	1	1	18.07	18.07	18.25	19.50
		50	25	18.91	18.85	18.79	19.50
	DFT-s-OFDM 64QAM	1	1	18.18	17.68	17.90	19.50
		50	25	19.03	18.81	18.81	19.50
	DFT-s-OFDM 256QAM	1	1	18.84	18.72	19.02	19.50
		50	25	18.69	19.09	18.89	19.50
	CP-OFDM QPSK	1	1	18.49	18.27	18.25	19.50
	CP-OFDM 16QAM	1	1	18.54	18.80	18.82	19.50
	CP-OFDM 64QAM	1	1	18.21	18.57	18.49	19.50
	CP-OFDM 256QAM	1	1	17.82	17.92	17.44	19.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631666/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.21	18.53	18.62	20.00
		1	131	19.16	19.10	19.26	20.00
		64	32	18.73	18.89	18.97	20.00
		128	0	18.61	18.43	18.57	20.00
	DFT-s-OFDM QPSK	1	1	18.12	18.33	18.48	20.00
		1	131	18.91	19.05	19.11	20.00
		64	32	18.95	18.81	18.79	20.00
		128	0	18.68	18.76	18.70	20.00
	DFT-s-OFDM 16QAM	1	1	17.85	18.03	18.17	19.50
		64	32	18.95	18.95	18.75	19.50
	DFT-s-OFDM 64QAM	1	1	17.96	17.76	17.98	19.50
		64	32	18.93	18.73	18.63	19.50
	DFT-s-OFDM 256QAM	1	1	18.70	18.56	18.68	19.50
		64	32	18.63	18.93	19.03	19.50
	CP-OFDM QPSK	1	1	18.33	18.39	18.41	19.50
	CP-OFDM 16QAM	1	1	18.68	18.72	18.50	19.50
	CP-OFDM 64QAM	1	1	18.55	18.51	18.59	19.50
	CP-OFDM 256QAM	1	1	17.96	17.86	17.62	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	18.17	18.25	18.64	20.00
		1	160	19.22	19.28	19.04	20.00
		81	40	18.47	18.69	19.09	20.00
		162	0	18.59	18.79	19.01	20.00
	DFT-s-OFDM QPSK	1	1	18.44	18.26	18.32	20.00
		1	160	18.95	18.99	19.07	20.00
		81	40	18.71	18.69	18.75	20.00
		162	0	18.68	19.20	19.00	20.00
	DFT-s-OFDM 16QAM	1	1	17.95	18.13	18.03	19.50
		81	40	18.91	19.05	19.09	19.50
	DFT-s-OFDM 64QAM	1	1	17.88	17.66	18.00	19.50
		81	40	18.67	18.73	18.83	19.50
	DFT-s-OFDM 256QAM	1	1	18.98	18.62	19.06	19.50
		81	40	18.43	18.61	18.91	19.50
	CP-OFDM QPSK	1	1	18.19	18.29	18.45	19.50
	CP-OFDM 16QAM	1	1	18.78	18.92	18.52	19.50
	CP-OFDM 64QAM	1	1	18.17	18.83	18.29	19.50
	CP-OFDM 256QAM	1	1	18.02	17.66	17.72	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM	1	1	18.33	18.49	18.66	20.00

	BPSK	1	187	19.08	19.26	19.04	20.00
		92	45	18.75	18.95	18.73	20.00
		180	0	18.73	18.67	18.63	20.00
	DFT-s-OFDM QPSK	1	1	18.30	18.20	18.44	20.00
		1	187	18.97	19.09	18.99	20.00
		92	45	18.77	18.87	18.89	20.00
		180	0	18.72	18.90	18.90	20.00
	DFT-s-OFDM 16QAM	1	1	18.01	18.21	18.17	19.50
		92	46	18.93	18.91	19.01	19.50
	DFT-s-OFDM 64QAM	1	1	17.92	17.82	18.08	19.50
		92	46	19.05	18.61	18.75	19.50
	DFT-s-OFDM 256QAM	1	1	18.80	18.56	18.90	19.50
		92	46	18.75	18.77	18.93	19.50
	CP-OFDM QPSK	1	1	18.31	18.29	18.41	19.50
	CP-OFDM 16QAM	1	1	18.60	18.86	18.64	19.50
	CP-OFDM 64QAM	1	1	18.51	18.67	18.43	19.50
	CP-OFDM 256QAM	1	1	17.92	17.70	17.62	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.19	18.39	18.36	20.00
		1	215	19.04	19.18	19.00	20.00
		108	54	18.77	18.67	18.79	20.00
		216	0	18.79	18.35	18.65	20.00
	DFT-s-OFDM QPSK	1	1	18.08	18.16	18.28	20.00
		1	215	18.97	19.09	18.87	20.00
		108	54	18.65	18.65	18.87	20.00
		216	0	18.70	18.82	18.66	20.00
	DFT-s-OFDM 16QAM	1	1	17.83	18.05	17.93	19.50
		108	54	18.69	19.05	18.91	19.50
	DFT-s-OFDM 64QAM	1	1	18.12	17.92	17.96	19.50
		108	54	18.97	18.61	18.71	19.50
	DFT-s-OFDM 256QAM	1	1	18.72	18.48	18.72	19.50
		108	54	18.63	18.83	19.05	19.50
	CP-OFDM QPSK	1	1	18.29	18.37	18.31	19.50
	CP-OFDM 16QAM	1	1	18.54	18.68	18.52	19.50
	CP-OFDM 64QAM	1	1	18.21	18.51	18.49	19.50
	CP-OFDM 256QAM	1	1	17.84	17.62	17.68	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	18.27	18.39	18.50	20.00
		1	243	19.18	19.18	19.10	20.00
		120	60	18.67	18.81	18.81	20.00
		243	0	18.71	18.55	18.67	20.00

	DFT-s-OFDM QPSK	1	1	18.22	18.10	18.36	20.00
		1	243	19.03	19.01	19.01	20.00
		120	60	18.79	18.71	18.85	20.00
		243	0	18.66	18.88	18.82	20.00
	DFT-s-OFDM 16QAM	1	1	17.91	18.11	18.07	19.50
		120	60	18.77	18.99	18.85	19.50
	DFT-s-OFDM 64QAM	1	1	18.02	17.86	18.00	19.50
		120	60	18.91	18.69	18.69	19.50
	DFT-s-OFDM 256QAM	1	1	18.78	18.64	18.80	19.50
		120	60	18.69	18.87	18.95	19.50
	CP-OFDM QPSK	1	1	18.29	18.39	18.31	19.50
	CP-OFDM 16QAM	1	1	18.54	18.76	18.62	19.50
Bandwidth	CP-OFDM 64QAM	1	1	18.39	18.57	18.41	19.50
	CP-OFDM 256QAM	1	1	17.80	17.72	17.62	19.00
	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.25	/	20.00
		1	271	/	19.08	/	20.00
		135	67	/	18.77	/	20.00
		270	0	/	18.69	/	20.00
	DFT-s-OFDM QPSK	1	1	/	18.22	/	20.00
		1	271	/	19.07	/	20.00
		135	67	/	18.77	/	20.00
		270	0	/	18.72	/	20.00
	DFT-s-OFDM 16QAM	1	1	/	18.01	/	19.50
		135	67	/	18.79	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	18.04	/	19.50
		135	67	/	18.77	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	18.64	/	19.50
		135	67	/	18.79	/	19.50
	CP-OFDM QPSK	1	1	/	18.29	/	19.50
	CP-OFDM 16QAM	1	1	/	18.56	/	19.50
	CP-OFDM 64QAM	1	1	/	18.41	/	19.50
	CP-OFDM 256QAM	1	1	/	17.64	/	19.00

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Receiver off--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	656000/3840	664666/3970	
20MHz	DFT-s-OFDM BPSK	1	1	18.78	18.76	18.20	20.00
		1	49	18.45	18.67	18.57	20.00
		25	12	18.63	18.39	19.11	20.00
		50	0	18.58	18.48	18.54	20.00

	DFT-s-OFDM QPSK	1	1	18.49	19.01	18.20	20.00
		1	49	18.42	18.51	19.27	20.00
		25	12	19.11	18.38	19.11	20.00
		50	0	18.87	18.72	19.06	20.00
	DFT-s-OFDM 16QAM	1	1	18.54	18.30	18.88	19.50
		25	12	18.65	18.57	18.63	19.50
	DFT-s-OFDM 64QAM	1	1	18.55	18.55	18.83	19.50
		25	12	18.38	18.68	18.50	19.50
	DFT-s-OFDM 256QAM	1	1	18.99	18.93	19.17	19.50
		25	12	18.63	18.47	18.67	19.50
	CP-OFDM QPSK	1	1	18.93	18.83	19.03	19.50
	CP-OFDM 16QAM	1	1	18.88	19.04	19.18	19.50
Bandwidth	CP-OFDM 64QAM	1	1	18.98	19.26	18.70	19.50
	CP-OFDM 256QAM	1	1	18.17	18.13	18.39	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647667/3715	656000/3840	664333/3965	
30MHz	DFT-s-OFDM BPSK	1	1	18.84	18.68	18.40	20.00
		1	76	18.47	18.49	18.55	20.00
		36	18	18.79	18.59	18.91	20.00
		75	0	18.72	18.56	18.62	20.00
	DFT-s-OFDM QPSK	1	1	18.49	19.01	18.32	20.00
		1	76	18.68	18.73	19.55	20.00
		36	18	19.07	18.74	19.11	20.00
		75	0	18.93	18.64	19.02	20.00
	DFT-s-OFDM 16QAM	1	1	18.58	18.50	18.88	19.50
		36	18	18.55	18.63	18.77	19.50
	DFT-s-OFDM 64QAM	1	1	18.71	18.63	18.99	19.50
		36	18	18.64	18.92	18.52	19.50
	DFT-s-OFDM 256QAM	1	1	18.95	18.87	19.09	19.50
		36	18	18.73	18.59	18.57	19.50
	CP-OFDM QPSK	1	1	19.07	18.91	19.11	19.50
	CP-OFDM 16QAM	1	1	19.00	19.08	19.22	19.50
	CP-OFDM 64QAM	1	1	18.94	19.36	19.02	19.50
	CP-OFDM 256QAM	1	1	18.15	17.93	18.29	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	656000/3840	664000/3960	
40MHz	DFT-s-OFDM BPSK	1	1	18.96	18.84	18.30	20.00
		1	104	18.51	18.79	18.51	20.00
		50	25	18.79	18.43	19.17	20.00
		100	0	18.92	18.74	18.50	20.00
	DFT-s-OFDM QPSK	1	1	18.81	19.09	18.24	20.00
		1	104	18.54	18.43	19.59	20.00
		50	25	19.11	18.72	19.07	20.00

		100	0	18.93	18.82	18.88	20.00
	DFT-s-OFDM 16QAM	1	1	18.72	18.52	18.80	19.50
		50	25	18.69	18.77	18.91	19.50
	DFT-s-OFDM 64QAM	1	1	18.43	18.59	18.75	19.50
		50	25	18.60	18.64	18.40	19.50
	DFT-s-OFDM 256QAM	1	1	18.99	18.91	19.19	19.50
		50	25	18.79	18.41	18.67	19.50
	CP-OFDM QPSK	1	1	18.91	18.91	18.99	19.50
	CP-OFDM 16QAM	1	1	18.98	19.06	19.42	19.50
	CP-OFDM 64QAM	1	1	19.16	19.26	18.98	19.50
	CP-OFDM 256QAM	1	1	18.39	18.05	18.37	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648333/3725	656000/3840	663666/3955	
50MHz	DFT-s-OFDM BPSK	1	1	18.78	18.78	18.34	20.00
		1	131	18.53	18.63	18.63	20.00
		64	32	18.67	18.37	19.09	20.00
		128	0	18.76	18.64	18.50	20.00
	DFT-s-OFDM QPSK	1	1	18.63	18.93	18.10	20.00
		1	131	18.56	18.53	19.43	20.00
		64	32	19.09	18.58	19.01	20.00
		128	0	18.81	18.80	18.96	20.00
	DFT-s-OFDM 16QAM	1	1	18.62	18.40	18.78	19.50
		64	32	18.55	18.63	18.81	19.50
	DFT-s-OFDM 64QAM	1	1	18.55	18.61	18.81	19.50
		64	32	18.58	18.70	18.40	19.50
	DFT-s-OFDM 256QAM	1	1	18.97	18.91	19.19	19.50
		64	32	18.77	18.49	18.67	19.50
	CP-OFDM QPSK	1	1	18.93	18.95	18.97	19.50
	CP-OFDM 16QAM	1	1	18.84	18.98	19.26	19.50
	CP-OFDM 64QAM	1	1	19.04	19.20	18.82	19.50
	CP-OFDM 256QAM	1	1	18.21	18.09	18.31	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	656000/3840	663334/3950	
60MHz	DFT-s-OFDM BPSK	1	1	18.66	18.80	18.66	20.00
		1	160	18.57	18.45	18.55	20.00
		81	40	18.87	18.69	18.97	20.00
		162	0	18.62	18.50	18.36	20.00
	DFT-s-OFDM QPSK	1	1	18.63	18.59	18.26	20.00
		1	160	18.68	18.61	19.17	20.00
		81	40	19.01	18.68	19.07	20.00
		162	0	18.83	18.54	18.98	20.00
	DFT-s-OFDM 16QAM	1	1	18.48	18.46	18.68	19.50
		81	40	18.77	18.75	18.73	19.50

	DFT-s-OFDM 64QAM	1	1	18.55	18.59	18.65	19.50
		81	40	18.74	18.72	18.48	19.50
	DFT-s-OFDM 256QAM	1	1	19.01	19.19	19.31	19.50
		81	40	18.75	18.53	18.75	19.50
	CP-OFDM QPSK	1	1	18.81	18.75	19.05	19.50
	CP-OFDM 16QAM	1	1	19.00	19.06	19.08	19.50
	CP-OFDM 64QAM	1	1	19.02	19.02	18.84	19.50
	CP-OFDM 256QAM	1	1	18.33	18.25	18.53	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	656000/3840	663000/3745	
70MHz	DFT-s-OFDM BPSK	1	1	18.56	18.74	18.44	20.00
		1	187	18.47	18.29	18.41	20.00
		92	45	18.55	18.61	18.87	20.00
		180	0	18.50	18.38	18.42	20.00
	DFT-s-OFDM QPSK	1	1	18.47	18.71	18.18	20.00
		1	187	18.56	18.47	19.17	20.00
		92	45	18.93	18.60	18.91	20.00
		180	0	18.83	18.66	18.82	20.00
	DFT-s-OFDM 16QAM	1	1	18.66	18.42	18.56	19.50
		92	46	18.65	18.53	18.79	19.50
	DFT-s-OFDM 64QAM	1	1	18.65	18.37	18.47	19.50
		92	46	18.58	18.70	18.62	19.50
	DFT-s-OFDM 256QAM	1	1	18.79	19.03	19.17	19.50
		92	46	18.91	18.69	18.49	19.50
	CP-OFDM QPSK	1	1	18.81	18.75	18.99	19.50
	CP-OFDM 16QAM	1	1	18.80	19.10	19.20	19.50
	CP-OFDM 64QAM	1	1	19.08	18.92	18.88	19.50
	CP-OFDM 256QAM	1	1	18.27	18.01	18.27	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	656000/3840	662666/3940	
80MHz	DFT-s-OFDM BPSK	1	1	18.58	18.68	18.62	20.00
		1	215	18.65	18.51	18.67	20.00
		108	54	18.89	18.69	18.87	20.00
		216	0	18.62	18.66	18.52	20.00
	DFT-s-OFDM QPSK	1	1	18.57	18.79	18.40	20.00
		1	215	18.76	18.51	19.15	20.00
		108	54	19.01	18.70	19.03	20.00
		216	0	18.91	18.54	19.14	20.00
	DFT-s-OFDM 16QAM	1	1	18.70	18.60	18.56	19.50
		108	54	18.65	18.55	18.75	19.50
	DFT-s-OFDM 64QAM	1	1	18.57	18.53	18.67	19.50
		108	54	18.64	18.74	18.52	19.50
	DFT-s-OFDM	1	1	18.83	19.23	19.25	19.50

	256QAM	108	54	18.83	18.69	18.87	19.50
	CP-OFDM QPSK	1	1	18.91	18.81	19.09	19.50
	CP-OFDM 16QAM	1	1	19.10	18.98	19.20	19.50
	CP-OFDM 64QAM	1	1	19.14	18.82	18.98	19.50
	CP-OFDM 256QAM	1	1	18.45	18.19	18.43	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	656000/3840	662333/3935	
90MHz	DFT-s-OFDM BPSK	1	1	18.64	18.88	18.64	20.00
		1	243	18.41	18.57	18.67	20.00
		120	60	18.65	18.55	18.83	20.00
		243	0	18.52	18.38	18.52	20.00
	DFT-s-OFDM QPSK	1	1	18.53	18.51	18.48	20.00
		1	243	18.66	18.49	18.97	20.00
		120	60	18.85	18.68	18.95	20.00
		243	0	18.83	18.68	19.04	20.00
	DFT-s-OFDM 16QAM	1	1	18.66	18.66	18.44	19.50
		120	60	18.53	18.43	18.67	19.50
	DFT-s-OFDM 64QAM	1	1	18.61	18.35	18.47	19.50
		120	60	18.74	18.76	18.62	19.50
	DFT-s-OFDM 256QAM	1	1	19.11	19.17	19.07	19.50
		120	60	18.75	18.61	18.53	19.50
	CP-OFDM QPSK	1	1	18.75	18.83	19.29	19.50
	CP-OFDM 16QAM	1	1	18.88	18.94	19.08	19.50
	CP-OFDM 64QAM	1	1	19.22	19.04	19.02	19.50
	CP-OFDM 256QAM	1	1	18.09	18.13	18.59	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				650000/3750	656000/3840	662000/3930	
100MHz	DFT-s-OFDM BPSK	1	1	18.60	18.68	18.56	20.00
		1	271	18.59	18.47	18.53	20.00
		135	67	18.73	18.57	18.89	20.00
		270	0	18.50	18.56	18.44	20.00
	DFT-s-OFDM QPSK	1	1	18.51	18.69	18.34	20.00
		1	271	18.68	18.47	19.11	20.00
		135	67	18.95	18.56	19.11	20.00
		270	0	18.83	18.58	18.98	20.00
	DFT-s-OFDM 16QAM	1	1	18.56	18.46	18.56	19.50
		135	67	18.63	18.61	18.83	19.50
	DFT-s-OFDM 64QAM	1	1	18.59	18.51	18.63	19.50
		135	67	18.64	18.60	18.58	19.50
	DFT-s-OFDM 256QAM	1	1	18.89	19.13	19.15	19.50
		135	67	18.81	18.63	18.69	19.50
	CP-OFDM QPSK	1	1	18.89	18.75	19.07	19.50
	CP-OFDM 16QAM	1	1	18.98	19.06	19.18	19.50

	CP-OFDM 64QAM	1	1	19.08	18.92	18.90	19.50
	CP-OFDM 256QAM	1	1	18.27	18.09	18.39	19.00

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Receiver on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.21	16.21	16.01	18.00
		1	49	17.39	17.11	16.83	18.00
		25	12	17.25	17.05	16.81	18.00
		50	0	16.69	16.75	16.85	18.00
	DFT-s-OFDM QPSK	1	1	16.37	16.27	16.25	18.00
		1	49	17.27	16.63	17.15	18.00
		25	12	17.00	16.76	16.86	18.00
		50	0	16.34	16.66	17.20	18.00
	DFT-s-OFDM 16QAM	1	1	16.48	16.20	16.20	17.50
		25	12	16.65	16.91	16.69	17.50
	DFT-s-OFDM 64QAM	1	1	16.25	16.45	16.27	17.50
		25	12	17.23	17.09	17.21	17.50
	DFT-s-OFDM 256QAM	1	1	16.70	16.76	16.66	17.50
		25	12	17.00	17.24	16.76	17.50
	CP-OFDM QPSK	1	1	16.24	16.02	16.58	17.50
	CP-OFDM 16QAM	1	1	16.65	16.37	16.45	17.50
	CP-OFDM 64QAM	1	1	16.39	16.45	16.19	17.50
	CP-OFDM 256QAM	1	1	16.17	16.15	15.73	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	16.29	16.53	16.09	18.00
		1	76	17.53	17.15	16.95	18.00
		36	18	17.03	17.05	16.77	18.00
		75	0	16.81	16.89	16.77	18.00
	DFT-s-OFDM QPSK	1	1	16.37	16.43	16.17	18.00
		1	76	17.23	16.81	16.93	18.00
		36	18	16.78	16.84	16.80	18.00
		75	0	16.54	16.80	17.10	18.00
	DFT-s-OFDM 16QAM	1	1	16.36	16.10	16.28	17.50
		36	18	16.75	16.99	16.47	17.50
	DFT-s-OFDM 64QAM	1	1	16.37	16.33	16.45	17.50
		36	18	17.45	16.93	17.35	17.50
	DFT-s-OFDM 256QAM	1	1	16.70	16.76	16.50	17.50
		36	18	17.04	17.18	16.84	17.50
	CP-OFDM QPSK	1	1	16.16	16.18	16.68	17.50
	CP-OFDM 16QAM	1	1	16.41	16.63	16.33	17.50

	CP-OFDM 64QAM	1	1	16.37	16.49	16.15	17.50
	CP-OFDM 256QAM	1	1	16.33	16.15	15.91	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	16.05	16.49	16.01	18.00
		1	104	17.47	17.07	17.01	18.00
		50	25	17.01	17.03	16.51	18.00
		100	0	16.65	16.59	16.55	18.00
	DFT-s-OFDM QPSK	1	1	16.37	16.29	16.09	18.00
		1	104	17.03	16.63	16.85	18.00
		50	25	16.70	16.76	16.70	18.00
		100	0	16.40	16.76	16.88	18.00
	DFT-s-OFDM 16QAM	1	1	16.28	16.18	16.20	17.50
		50	25	16.55	16.63	16.49	17.50
	DFT-s-OFDM 64QAM	1	1	16.29	16.15	16.37	17.50
		50	25	17.45	17.03	17.33	17.50
	DFT-s-OFDM 256QAM	1	1	16.78	16.62	16.62	17.50
		50	25	17.20	16.96	16.92	17.50
	CP-OFDM QPSK	1	1	16.32	16.00	16.42	17.50
	CP-OFDM 16QAM	1	1	16.57	16.33	16.43	17.50
	CP-OFDM 64QAM	1	1	16.13	16.45	16.21	17.50
	CP-OFDM 256QAM	1	1	16.03	15.99	15.73	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631666/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	16.17	16.39	16.19	18.00
		1	131	17.49	17.01	16.95	18.00
		64	32	17.03	17.15	16.65	18.00
		128	0	16.85	16.73	16.75	18.00
	DFT-s-OFDM QPSK	1	1	16.45	16.29	16.05	18.00
		1	131	17.15	16.73	17.03	18.00
		64	32	16.82	16.74	16.82	18.00
		128	0	16.46	16.66	17.06	18.00
	DFT-s-OFDM 16QAM	1	1	16.38	16.20	16.34	17.50
		64	32	16.63	16.83	16.53	17.50
	DFT-s-OFDM 64QAM	1	1	16.27	16.25	16.37	17.50
		64	32	17.35	17.03	17.25	17.50
	DFT-s-OFDM 256QAM	1	1	16.80	16.78	16.58	17.50
		64	32	17.14	17.10	16.92	17.50
	CP-OFDM QPSK	1	1	16.24	16.20	16.54	17.50
	CP-OFDM 16QAM	1	1	16.49	16.53	16.39	17.50
	CP-OFDM 64QAM	1	1	16.25	16.55	16.19	17.50
	CP-OFDM 256QAM	1	1	16.19	16.17	15.89	17.50
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up

		allocation		632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	16.11	16.09	16.43	18.00
		1	160	17.11	17.13	17.39	18.00
		81	40	17.09	17.23	16.87	18.00
		162	0	16.63	16.81	16.89	18.00
	DFT-s-OFDM QPSK	1	1	16.19	16.35	16.43	18.00
		1	160	17.29	16.91	16.95	18.00
		81	40	17.20	17.18	16.90	18.00
		162	0	16.68	16.92	16.78	18.00
	DFT-s-OFDM 16QAM	1	1	16.24	16.16	16.28	17.50
		81	40	16.67	16.93	16.99	17.50
	DFT-s-OFDM 64QAM	1	1	16.61	16.49	16.37	17.50
		81	40	17.19	17.01	17.21	17.50
	DFT-s-OFDM 256QAM	1	1	16.78	17.06	16.76	17.50
		81	40	16.84	16.92	17.06	17.50
	CP-OFDM QPSK	1	1	16.26	16.28	16.52	17.50
	CP-OFDM 16QAM	1	1	16.79	16.37	16.77	17.50
	CP-OFDM 64QAM	1	1	16.61	16.75	16.53	17.50
	CP-OFDM 256QAM	1	1	16.41	16.55	16.15	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	16.33	16.29	16.41	18.00
		1	187	17.25	17.09	17.15	18.00
		92	45	17.29	17.07	16.91	18.00
		180	0	16.69	16.85	17.03	18.00
	DFT-s-OFDM QPSK	1	1	16.51	16.27	16.23	18.00
		1	187	17.11	17.01	17.01	18.00
		92	45	17.02	16.98	17.06	18.00
		180	0	16.62	16.88	17.10	18.00
	DFT-s-OFDM 16QAM	1	1	16.28	16.32	16.26	17.50
		92	46	16.65	16.75	16.89	17.50
	DFT-s-OFDM 64QAM	1	1	16.39	16.33	16.39	17.50
		92	46	17.07	17.29	17.13	17.50
	DFT-s-OFDM 256QAM	1	1	16.82	16.84	16.74	17.50
		92	46	16.92	16.90	16.80	17.50
	CP-OFDM QPSK	1	1	16.36	16.54	16.42	17.50
	CP-OFDM 16QAM	1	1	16.61	16.67	16.67	17.50
	CP-OFDM 64QAM	1	1	16.43	16.51	16.31	17.50
	CP-OFDM 256QAM	1	1	16.19	16.39	16.13	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	16.11	16.29	16.17	18.00
		1	215	17.09	17.05	17.27	18.00

		108	54	17.01	17.01	16.91	18.00
		216	0	16.77	16.87	16.81	18.00
	DFT-s-OFDM QPSK	1	1	16.27	16.35	16.25	18.00
		1	215	17.11	17.05	16.93	18.00
		108	54	16.82	16.98	16.76	18.00
		216	0	16.74	16.86	17.00	18.00
	DFT-s-OFDM 16QAM	1	1	16.12	16.04	16.00	17.50
		108	54	16.73	16.61	16.61	17.50
	DFT-s-OFDM 64QAM	1	1	16.49	16.37	16.19	17.50
		108	54	16.99	16.97	16.81	17.50
	DFT-s-OFDM 256QAM	1	1	16.66	16.72	16.72	17.50
		108	54	16.82	16.66	16.90	17.50
	CP-OFDM QPSK	1	1	16.26	16.38	16.32	17.50
	CP-OFDM 16QAM	1	1	16.43	16.47	16.55	17.50
	CP-OFDM 64QAM	1	1	16.35	16.59	16.31	17.50
	CP-OFDM 256QAM	1	1	16.31	16.33	16.13	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	16.19	16.27	16.33	18.00
		1	243	17.25	17.09	17.19	18.00
		120	60	17.13	17.01	16.91	18.00
		243	0	16.71	16.81	16.93	18.00
	DFT-s-OFDM QPSK	1	1	16.35	16.29	16.25	18.00
		1	243	17.15	17.03	16.97	18.00
		120	60	17.00	17.10	16.92	18.00
		243	0	16.70	16.80	16.92	18.00
	DFT-s-OFDM 16QAM	1	1	16.14	16.16	16.14	17.50
		120	60	16.75	16.75	16.77	17.50
	DFT-s-OFDM 64QAM	1	1	16.41	16.27	16.31	17.50
		120	60	17.15	17.11	16.99	17.50
	DFT-s-OFDM 256QAM	1	1	16.78	16.84	16.70	17.50
		120	60	17.00	16.84	16.84	17.50
	CP-OFDM QPSK	1	1	16.36	16.36	16.42	17.50
	CP-OFDM 16QAM	1	1	16.61	16.55	16.61	17.50
	CP-OFDM 64QAM	1	1	16.49	16.57	16.41	17.50
	CP-OFDM 256QAM	1	1	16.27	16.35	16.23	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	16.27	/	18.00
		1	271	/	17.11	/	18.00
		135	67	/	16.89	/	18.00
		270	0	/	16.83	/	18.00
	DFT-s-OFDM	1	1	/	16.27	/	18.00

	QPSK	1	271	/	17.09	/	18.00
		135	67	/	16.90	/	18.00
		270	0	/	16.82	/	18.00
	DFT-s-OFDM 16QAM	1	1	/	16.24	/	17.50
		135	67	/	16.89	/	17.50
	DFT-s-OFDM 64QAM	1	1	/	16.39	/	17.50
		135	67	/	16.89	/	17.50
	DFT-s-OFDM 256QAM	1	1	/	16.70	/	17.50
		135	67	/	16.92	/	17.50
	CP-OFDM QPSK	1	1	/	16.32	/	17.50
	CP-OFDM 16QAM	1	1	/	16.57	/	17.50
	CP-OFDM 64QAM	1	1	/	16.43	/	17.50
	CP-OFDM 256QAM	1	1	/	16.15	/	17.50

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Receiver on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	656000/3840	664666/3970	
20MHz	DFT-s-OFDM BPSK	1	1	16.89	16.65	17.13	18.00
		1	49	16.83	16.43	16.91	18.00
		25	12	16.55	16.77	16.89	18.00
		50	0	16.62	16.42	16.88	18.00
	DFT-s-OFDM QPSK	1	1	16.72	16.74	16.25	18.00
		1	49	16.53	16.22	16.83	18.00
		25	12	16.94	16.37	16.92	18.00
		50	0	16.91	16.53	17.09	18.00
	DFT-s-OFDM 16QAM	1	1	16.16	16.48	16.58	17.50
		25	12	16.76	16.80	16.96	17.50
	DFT-s-OFDM 64QAM	1	1	16.42	16.32	16.84	17.50
		25	12	16.60	16.46	16.76	17.50
	DFT-s-OFDM 256QAM	1	1	17.19	16.88	16.70	17.50
		25	12	16.73	17.07	17.01	17.50
	CP-OFDM QPSK	1	1	16.72	16.92	17.12	17.50
	CP-OFDM 16QAM	1	1	17.18	17.00	16.98	17.50
	CP-OFDM 64QAM	1	1	16.71	16.75	16.85	17.50
	CP-OFDM 256QAM	1	1	16.50	16.62	16.66	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647667/3715	656000/3840	664333/3965	
30MHz	DFT-s-OFDM BPSK	1	1	16.73	16.83	17.03	18.00
		1	76	16.79	16.55	16.65	18.00
		36	18	16.53	16.79	16.89	18.00
		75	0	16.60	16.72	16.80	18.00
	DFT-s-OFDM	1	1	16.72	16.68	16.29	18.00

	QPSK	1	76	16.49	16.26	16.81	18.00
		36	18	16.98	16.57	16.96	18.00
		75	0	17.19	16.43	17.23	18.00
	DFT-s-OFDM 16QAM	1	1	16.18	16.66	16.56	17.50
		36	18	16.80	16.74	16.92	17.50
	DFT-s-OFDM 64QAM	1	1	16.42	16.50	16.76	17.50
		36	18	16.66	16.32	16.86	17.50
	DFT-s-OFDM 256QAM	1	1	17.13	17.00	16.70	17.50
		36	18	16.85	16.91	17.07	17.50
	CP-OFDM QPSK	1	1	16.74	16.84	17.08	17.50
	CP-OFDM 16QAM	1	1	17.20	16.90	17.16	17.50
	CP-OFDM 64QAM	1	1	16.85	16.79	16.79	17.50
	CP-OFDM 256QAM	1	1	16.62	16.78	16.56	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	656000/3840	664000/3960	
40MHz	DFT-s-OFDM BPSK	1	1	16.67	16.77	16.79	18.00
		1	104	16.51	16.45	16.61	18.00
		50	25	16.29	16.51	16.57	18.00
		100	0	16.60	16.44	16.58	18.00
	DFT-s-OFDM QPSK	1	1	16.64	16.78	16.39	18.00
		1	104	16.69	16.40	16.77	18.00
		50	25	16.90	16.35	16.84	18.00
		100	0	17.15	16.45	17.05	18.00
	DFT-s-OFDM 16QAM	1	1	16.16	16.68	16.42	17.50
		50	25	16.52	16.76	16.76	17.50
	DFT-s-OFDM 64QAM	1	1	16.38	16.24	16.72	17.50
		50	25	16.72	16.42	16.98	17.50
	DFT-s-OFDM 256QAM	1	1	17.03	17.33	16.66	17.50
		50	25	16.57	16.89	16.77	17.50
	CP-OFDM QPSK	1	1	16.48	16.74	16.86	17.50
	CP-OFDM 16QAM	1	1	17.14	16.82	17.06	17.50
	CP-OFDM 64QAM	1	1	16.63	16.83	16.71	17.50
	CP-OFDM 256QAM	1	1	16.54	16.70	16.56	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648333/3725	656000/3840	663666/3955	
50MHz	DFT-s-OFDM BPSK	1	1	16.67	16.77	16.93	18.00
		1	131	16.71	16.41	16.69	18.00
		64	32	16.41	16.71	16.77	18.00
		128	0	16.64	16.56	16.74	18.00
	DFT-s-OFDM QPSK	1	1	16.78	16.74	16.29	18.00
		1	131	16.59	16.32	16.91	18.00
		64	32	16.86	16.51	17.02	18.00
		128	0	17.05	16.51	17.17	18.00

	DFT-s-OFDM 16QAM	1	1	16.14	16.62	16.60	17.50
		64	32	16.72	16.72	16.96	17.50
	DFT-s-OFDM 64QAM	1	1	16.42	16.40	16.78	17.50
		64	32	16.66	16.38	16.90	17.50
	DFT-s-OFDM 256QAM	1	1	17.09	17.45	16.76	17.50
		64	32	16.73	16.93	16.95	17.50
	CP-OFDM QPSK	1	1	16.66	16.92	17.04	17.50
	CP-OFDM 16QAM	1	1	17.16	16.94	17.12	17.50
	CP-OFDM 64QAM	1	1	16.81	16.87	16.73	17.50
	CP-OFDM 256QAM	1	1	16.54	16.76	16.62	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	656000/3840	663334/3950	
60MHz	DFT-s-OFDM BPSK	1	1	16.67	16.81	16.59	18.00
		1	160	16.59	16.35	16.65	18.00
		81	40	16.51	16.53	16.57	18.00
		162	0	16.70	16.76	16.64	18.00
	DFT-s-OFDM QPSK	1	1	16.46	16.78	16.41	18.00
		1	160	16.63	16.40	17.17	18.00
		81	40	17.04	16.65	17.16	18.00
		162	0	16.79	16.75	16.85	18.00
	DFT-s-OFDM 16QAM	1	1	16.50	16.50	16.48	17.50
		81	40	16.70	16.58	16.56	17.50
	DFT-s-OFDM 64QAM	1	1	16.44	16.48	16.40	17.50
		81	40	16.70	16.58	16.74	17.50
	DFT-s-OFDM 256QAM	1	1	17.15	16.99	16.94	17.50
		81	40	16.93	16.65	16.89	17.50
	CP-OFDM QPSK	1	1	16.92	16.82	16.82	17.50
	CP-OFDM 16QAM	1	1	17.02	17.10	17.26	17.50
	CP-OFDM 64QAM	1	1	16.71	16.81	16.75	17.50
	CP-OFDM 256QAM	1	1	16.58	16.68	16.28	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	656000/3840	663000/3745	
70MHz	DFT-s-OFDM BPSK	1	1	16.85	16.89	16.93	18.00
		1	187	16.51	16.43	16.63	18.00
		92	45	16.49	16.67	16.39	18.00
		180	0	16.66	16.88	16.56	18.00
	DFT-s-OFDM QPSK	1	1	16.40	16.64	16.47	18.00
		1	187	16.91	16.40	16.97	18.00
		92	45	16.90	16.69	16.92	18.00
		180	0	16.79	16.51	17.05	18.00
	DFT-s-OFDM 16QAM	1	1	16.52	16.62	16.70	17.50
		92	46	16.64	16.78	16.68	17.50
	DFT-s-OFDM	1	1	16.34	16.74	16.76	17.50

	64QAM	92	46	16.74	16.58	16.56	17.50
	DFT-s-OFDM	1	1	17.19	17.03	17.06	17.50
	256QAM	92	46	16.99	16.73	16.77	17.50
	CP-OFDM QPSK	1	1	16.92	16.84	17.12	17.50
	CP-OFDM 16QAM	1	1	17.18	16.96	17.20	17.50
	CP-OFDM 64QAM	1	1	16.91	16.77	16.91	17.50
	CP-OFDM 256QAM	1	1	16.68	16.84	16.68	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	656000/3840	662666/3940	
80MHz	DFT-s-OFDM BPSK	1	1	16.71	16.89	16.69	18.00
		1	215	16.55	16.65	16.59	18.00
		108	54	16.73	16.87	16.49	18.00
		216	0	16.60	16.84	16.72	18.00
	DFT-s-OFDM QPSK	1	1	16.74	16.84	16.37	18.00
		1	215	16.79	16.48	17.23	18.00
		108	54	17.08	16.85	17.04	18.00
		216	0	16.85	16.85	16.97	18.00
	DFT-s-OFDM 16QAM	1	1	16.46	16.46	16.48	17.50
		108	54	16.88	16.82	16.86	17.50
	DFT-s-OFDM 64QAM	1	1	16.44	16.66	16.60	17.50
		108	54	16.72	16.58	16.88	17.50
	DFT-s-OFDM 256QAM	1	1	17.01	17.23	17.04	17.50
		108	54	16.77	16.67	16.99	17.50
	CP-OFDM QPSK	1	1	17.00	16.84	17.06	17.50
	CP-OFDM 16QAM	1	1	17.04	17.10	17.36	17.50
	CP-OFDM 64QAM	1	1	16.97	16.85	16.63	17.50
	CP-OFDM 256QAM	1	1	16.72	16.54	16.34	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	656000/3840	662333/3935	
90MHz	DFT-s-OFDM BPSK	1	1	16.77	16.85	16.77	18.00
		1	243	16.79	16.39	16.79	18.00
		120	60	16.59	16.61	16.71	18.00
		243	0	16.82	16.70	16.74	18.00
	DFT-s-OFDM QPSK	1	1	16.74	16.82	16.47	18.00
		1	243	16.73	16.46	17.15	18.00
		120	60	17.12	16.69	17.20	18.00
		243	0	16.95	16.67	16.97	18.00
	DFT-s-OFDM 16QAM	1	1	16.34	16.42	16.54	17.50
		120	60	16.72	16.76	16.78	17.50
	DFT-s-OFDM 64QAM	1	1	16.42	16.46	16.48	17.50
		120	60	16.72	16.84	16.78	17.50
	DFT-s-OFDM 256QAM	1	1	17.09	17.13	17.33	17.50
		120	60	16.99	16.77	17.09	17.50

	CP-OFDM QPSK	1	1	17.06	16.88	17.02	17.50
	CP-OFDM 16QAM	1	1	17.08	17.00	17.14	17.50
	CP-OFDM 64QAM	1	1	16.87	16.79	16.87	17.50
	CP-OFDM 256QAM	1	1	16.60	16.56	16.54	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				650000/3750	656000/3840	662000/3930	
100MHz	DFT-s-OFDM BPSK	1	1	16.65	16.75	16.75	18.00
		1	271	16.67	16.49	16.61	18.00
		135	67	16.63	16.69	16.57	18.00
		270	0	16.64	16.66	16.56	18.00
	DFT-s-OFDM QPSK	1	1	16.56	16.72	16.35	18.00
		1	271	16.71	16.48	17.11	18.00
		135	67	17.02	16.67	17.29	18.00
		270	0	16.91	16.67	17.03	18.00
	DFT-s-OFDM 16QAM	1	1	16.40	16.50	16.54	17.50
		135	67	16.78	16.70	16.68	17.50
	DFT-s-OFDM 64QAM	1	1	16.50	16.54	16.54	17.50
		135	67	16.66	16.68	16.74	17.50
	DFT-s-OFDM 256QAM	1	1	17.13	17.15	16.86	17.50
		135	67	16.89	16.71	16.95	17.50
	CP-OFDM QPSK	1	1	16.92	16.78	17.00	17.50
	CP-OFDM 16QAM	1	1	17.14	17.06	17.20	17.50
	CP-OFDM 64QAM	1	1	16.81	16.89	16.75	17.50
	CP-OFDM 256QAM	1	1	16.56	16.62	16.46	17.50

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Hotspot on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	17.27	17.82	17.28	19.00
		1	49	17.94	18.32	17.82	19.00
		25	12	17.80	17.60	17.58	19.00
		50	0	17.93	18.11	17.85	19.00
	DFT-s-OFDM QPSK	1	1	17.59	17.35	17.27	19.00
		1	49	17.98	18.06	17.94	19.00
		25	12	18.29	18.41	18.07	19.00
		50	0	18.25	17.85	18.35	19.00
	DFT-s-OFDM 16QAM	1	1	17.41	17.49	17.29	18.50
		25	12	17.56	17.76	17.44	18.50
	DFT-s-OFDM 64QAM	1	1	17.15	16.91	16.97	18.50
		25	12	17.57	17.91	18.13	18.50
	DFT-s-OFDM 256QAM	1	1	17.43	17.49	17.63	18.50
		25	12	17.88	17.68	17.58	18.50

	CP-OFDM QPSK	1	1	17.39	17.13	17.23	18.50
	CP-OFDM 16QAM	1	1	17.54	17.64	17.36	18.50
	CP-OFDM 64QAM	1	1	17.52	17.54	17.42	18.50
	CP-OFDM 256QAM	1	1	16.82	17.24	17.20	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	17.49	17.60	17.48	19.00
		1	76	18.10	18.28	17.94	19.00
		36	18	17.72	17.86	17.68	19.00
		75	0	18.13	17.99	17.71	19.00
	DFT-s-OFDM QPSK	1	1	17.63	17.33	17.31	19.00
		1	76	18.18	17.92	17.92	19.00
		36	18	18.31	18.29	17.87	19.00
		75	0	18.09	17.93	18.29	19.00
	DFT-s-OFDM 16QAM	1	1	17.25	17.49	17.55	18.50
		36	18	17.66	17.70	17.76	18.50
	DFT-s-OFDM 64QAM	1	1	17.35	17.21	17.07	18.50
		36	18	17.89	17.95	17.91	18.50
	DFT-s-OFDM 256QAM	1	1	17.37	17.65	17.67	18.50
		36	18	17.62	17.70	17.82	18.50
	CP-OFDM QPSK	1	1	17.41	17.31	16.99	18.50
	CP-OFDM 16QAM	1	1	17.32	17.76	17.62	18.50
	CP-OFDM 64QAM	1	1	17.70	17.84	17.38	18.50
	CP-OFDM 256QAM	1	1	16.86	17.18	17.52	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	17.07	17.48	17.36	19.00
		1	104	18.34	18.02	18.14	19.00
		50	25	17.90	17.72	17.48	19.00
		100	0	18.09	17.85	17.77	19.00
	DFT-s-OFDM QPSK	1	1	17.39	17.45	17.67	19.00
		1	104	18.26	18.26	18.02	19.00
		50	25	17.89	18.21	18.21	19.00
		100	0	17.99	18.11	18.13	19.00
	DFT-s-OFDM 16QAM	1	1	17.39	17.45	17.49	18.50
		50	25	17.78	17.60	17.62	18.50
	DFT-s-OFDM 64QAM	1	1	17.01	17.21	17.11	18.50
		50	25	17.67	17.97	18.01	18.50
	DFT-s-OFDM 256QAM	1	1	17.45	17.65	17.85	18.50
		50	25	17.68	17.72	17.70	18.50
	CP-OFDM QPSK	1	1	17.13	17.49	17.25	18.50
	CP-OFDM 16QAM	1	1	17.44	17.52	17.74	18.50
	CP-OFDM 64QAM	1	1	17.44	17.66	17.56	18.50

	CP-OFDM 256QAM	1	1	17.10	17.32	17.18	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631666/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	17.35	17.68	17.38	19.00
		1	131	18.08	18.20	17.96	19.00
		64	32	17.70	17.72	17.62	19.00
		128	0	17.95	18.01	17.75	19.00
	DFT-s-OFDM QPSK	1	1	17.51	17.45	17.37	19.00
		1	131	18.14	17.96	18.02	19.00
		64	32	18.13	18.21	17.95	19.00
		128	0	18.07	18.03	18.29	19.00
	DFT-s-OFDM 16QAM	1	1	17.29	17.33	17.39	18.50
		64	32	17.70	17.64	17.62	18.50
	DFT-s-OFDM 64QAM	1	1	17.19	17.03	17.07	18.50
		64	32	17.71	17.89	18.03	18.50
	DFT-s-OFDM 256QAM	1	1	17.37	17.51	17.75	18.50
		64	32	17.68	17.52	17.68	18.50
	CP-OFDM QPSK	1	1	17.39	17.27	17.09	18.50
	CP-OFDM 16QAM	1	1	17.32	17.62	17.54	18.50
	CP-OFDM 64QAM	1	1	17.66	17.66	17.40	18.50
	CP-OFDM 256QAM	1	1	16.94	17.26	17.34	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	17.25	17.44	17.14	19.00
		1	160	18.22	18.18	17.92	19.00
		81	40	17.62	17.58	17.38	19.00
		162	0	17.95	17.63	17.71	19.00
	DFT-s-OFDM QPSK	1	1	17.55	17.45	17.27	19.00
		1	160	18.38	18.20	17.98	19.00
		81	40	18.31	18.21	18.09	19.00
		162	0	17.99	18.19	18.03	19.00
	DFT-s-OFDM 16QAM	1	1	17.33	17.45	17.11	18.50
		81	40	17.58	17.50	17.40	18.50
	DFT-s-OFDM 64QAM	1	1	16.99	17.19	17.27	18.50
		81	40	17.83	17.67	17.59	18.50
	DFT-s-OFDM 256QAM	1	1	17.57	17.79	17.71	18.50
		81	40	17.84	17.82	17.72	18.50
	CP-OFDM QPSK	1	1	17.15	17.23	17.39	18.50
	CP-OFDM 16QAM	1	1	17.20	17.38	17.56	18.50
	CP-OFDM 64QAM	1	1	17.78	17.72	17.58	18.50
	CP-OFDM 256QAM	1	1	17.06	17.00	17.34	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	

70MHz	DFT-s-OFDM BPSK	1	1	17.09	17.50	17.46	19.00
		1	187	18.16	18.22	18.20	19.00
		92	45	17.70	17.64	17.52	19.00
		180	0	17.81	18.05	17.75	19.00
	DFT-s-OFDM QPSK	1	1	17.35	17.47	17.49	19.00
		1	187	18.18	18.16	18.24	19.00
		92	45	18.13	18.31	17.93	19.00
		180	0	18.03	18.13	18.09	19.00
	DFT-s-OFDM 16QAM	1	1	17.17	17.29	17.41	18.50
		92	46	17.84	17.62	17.48	18.50
	DFT-s-OFDM 64QAM	1	1	17.01	17.23	17.13	18.50
		92	46	17.77	17.97	17.85	18.50
	DFT-s-OFDM 256QAM	1	1	17.63	17.47	17.83	18.50
		92	46	17.72	17.64	17.60	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	17.46	17.54	17.42	19.00
		1	215	18.04	18.12	18.16	19.00
		108	54	17.80	17.64	17.38	19.00
		216	0	17.77	17.77	17.83	19.00
	DFT-s-OFDM QPSK	1	1	17.21	17.59	17.29	19.00
		1	215	18.08	18.20	18.24	19.00
		108	54	17.83	18.05	17.91	19.00
		216	0	17.97	17.95	18.11	19.00
	DFT-s-OFDM 16QAM	1	1	17.33	17.19	17.29	18.50
		108	54	17.56	17.72	17.54	18.50
	DFT-s-OFDM 64QAM	1	1	17.21	17.11	17.11	18.50
		108	54	17.59	17.91	18.01	18.50
	DFT-s-OFDM 256QAM	1	1	17.59	17.37	17.69	18.50
		108	54	17.62	17.62	17.64	18.50
	CP-OFDM QPSK	1	1	17.15	17.31	17.17	18.50
	CP-OFDM 16QAM	1	1	17.30	17.24	17.42	18.50
	CP-OFDM 64QAM	1	1	17.50	17.54	17.64	18.50
	CP-OFDM 256QAM	1	1	17.12	16.96	17.08	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	17.17	17.54	17.36	19.00
		1	243	18.18	18.10	18.08	19.00
		120	60	17.72	17.62	17.52	19.00

		243	0	17.91	17.97	17.85	19.00
	DFT-s-OFDM QPSK	1	1	17.37	17.53	17.49	19.00
		1	243	18.20	18.14	18.14	19.00
		120	60	18.01	18.15	18.03	19.00
		243	0	17.87	17.97	18.09	19.00
	DFT-s-OFDM 16QAM	1	1	17.23	17.37	17.31	18.50
		120	60	17.68	17.68	17.56	18.50
	DFT-s-OFDM 64QAM	1	1	17.11	17.15	17.23	18.50
		120	60	17.73	17.81	17.91	18.50
	DFT-s-OFDM 256QAM	1	1	17.49	17.53	17.69	18.50
		120	60	17.64	17.68	17.66	18.50
	CP-OFDM QPSK	1	1	17.25	17.39	17.27	18.50
	CP-OFDM 16QAM	1	1	17.50	17.44	17.62	18.50
	CP-OFDM 64QAM	1	1	17.48	17.50	17.56	18.50
	CP-OFDM 256QAM	1	1	17.10	17.16	17.12	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	17.31	/	19.00
		1	271	/	18.10	/	19.00
		135	67	/	17.78	/	19.00
		270	0	/	17.71	/	19.00
	DFT-s-OFDM QPSK	1	1	/	17.29	/	19.00
		1	271	/	18.08	/	19.00
		135	67	/	18.23	/	19.00
		270	0	/	17.81	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	17.03	/	18.50
		135	67	/	17.78	/	18.50
	DFT-s-OFDM 64QAM	1	1	/	17.07	/	18.50
		135	67	/	17.77	/	18.50
	DFT-s-OFDM 256QAM	1	1	/	17.67	/	18.50
		135	67	/	17.80	/	18.50
	CP-OFDM QPSK	1	1	/	17.31	/	18.50
	CP-OFDM 16QAM	1	1	/	17.58	/	18.50
	CP-OFDM 64QAM	1	1	/	17.42	/	18.50
	CP-OFDM 256QAM	1	1	/	17.14	/	18.50

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Hotspot on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	656000/3840	664666/3970	
20MHz	DFT-s-OFDM BPSK	1	1	17.65	17.85	17.93	19.00
		1	49	17.49	17.49	17.35	19.00
		25	12	17.45	17.55	17.69	19.00

		50	0	17.97	17.79	18.01	19.00
	DFT-s-OFDM QPSK	1	1	17.41	17.81	17.42	19.00
		1	49	17.47	17.53	18.10	19.00
		25	12	17.90	17.68	18.11	19.00
		50	0	17.64	17.62	18.07	19.00
	DFT-s-OFDM 16QAM	1	1	17.42	17.42	17.42	18.50
		25	12	17.67	17.65	17.53	18.50
	DFT-s-OFDM 64QAM	1	1	17.42	17.50	17.72	18.50
		25	12	17.88	17.66	17.58	18.50
	DFT-s-OFDM 256QAM	1	1	17.74	18.22	17.92	18.50
		25	12	17.61	17.49	17.71	18.50
	CP-OFDM QPSK	1	1	17.71	17.97	17.69	18.50
	CP-OFDM 16QAM	1	1	18.14	18.16	17.82	18.50
	CP-OFDM 64QAM	1	1	18.11	18.05	17.79	18.50
	CP-OFDM 256QAM	1	1	17.96	17.64	17.58	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647667/3715	656000/3840	664333/3965	
30MHz	DFT-s-OFDM BPSK	1	1	17.65	17.79	17.89	19.00
		1	76	17.29	17.31	17.33	19.00
		36	18	17.49	17.47	17.79	19.00
		75	0	17.71	17.63	17.97	19.00
	DFT-s-OFDM QPSK	1	1	17.31	17.65	17.46	19.00
		1	76	17.59	17.55	18.02	19.00
		36	18	17.92	17.42	18.17	19.00
		75	0	17.52	17.58	18.03	19.00
	DFT-s-OFDM 16QAM	1	1	17.18	17.32	17.48	18.50
		36	18	17.61	17.49	17.55	18.50
	DFT-s-OFDM 64QAM	1	1	17.58	17.46	17.44	18.50
		36	18	17.76	17.42	17.66	18.50
	DFT-s-OFDM 256QAM	1	1	17.38	17.98	17.72	18.50
		36	18	17.51	17.57	17.57	18.50
	CP-OFDM QPSK	1	1	17.65	17.77	17.53	18.50
	CP-OFDM 16QAM	1	1	17.78	17.98	17.76	18.50
	CP-OFDM 64QAM	1	1	18.01	17.97	17.87	18.50
	CP-OFDM 256QAM	1	1	17.82	17.68	17.66	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	656000/3840	664000/3960	
40MHz	DFT-s-OFDM BPSK	1	1	17.45	17.83	17.95	19.00
		1	104	17.55	17.41	17.33	19.00
		50	25	17.65	17.71	17.65	19.00
		100	0	17.73	17.63	17.91	19.00
	DFT-s-OFDM QPSK	1	1	17.57	17.87	17.54	19.00
		1	104	17.63	17.45	18.06	19.00

		50	25	17.90	17.64	18.09	19.00
		100	0	17.64	17.48	17.93	19.00
	DFT-s-OFDM 16QAM	1	1	17.32	17.18	17.56	18.50
		50	25	17.81	17.53	17.63	18.50
	DFT-s-OFDM 64QAM	1	1	17.54	17.60	17.68	18.50
		50	25	17.94	17.46	17.68	18.50
	DFT-s-OFDM 256QAM	1	1	17.46	18.14	17.78	18.50
		50	25	17.65	17.55	17.61	18.50
	CP-OFDM QPSK	1	1	17.75	17.75	17.67	18.50
	CP-OFDM 16QAM	1	1	17.94	18.12	17.90	18.50
	CP-OFDM 64QAM	1	1	18.13	17.79	17.97	18.50
	CP-OFDM 256QAM	1	1	17.96	17.60	17.78	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648333/3725	656000/3840	663666/3955	
50MHz	DFT-s-OFDM BPSK	1	1	17.57	17.79	17.97	19.00
		1	131	17.41	17.35	17.41	19.00
		64	32	17.53	17.65	17.69	19.00
		128	0	17.81	17.71	18.03	19.00
	DFT-s-OFDM QPSK	1	1	17.43	17.73	17.42	19.00
		1	131	17.55	17.53	18.18	19.00
		64	32	17.82	17.62	18.09	19.00
		128	0	17.72	17.52	17.97	19.00
	DFT-s-OFDM 16QAM	1	1	17.26	17.28	17.44	18.50
		64	32	17.69	17.57	17.61	18.50
	DFT-s-OFDM 64QAM	1	1	17.52	17.54	17.60	18.50
		64	32	17.84	17.50	17.62	18.50
	DFT-s-OFDM 256QAM	1	1	17.58	18.10	17.90	18.50
		64	32	17.67	17.55	17.57	18.50
	CP-OFDM QPSK	1	1	17.79	17.83	17.67	18.50
	CP-OFDM 16QAM	1	1	17.98	18.08	17.82	18.50
	CP-OFDM 64QAM	1	1	18.03	17.91	17.87	18.50
	CP-OFDM 256QAM	1	1	17.82	17.60	17.64	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	656000/3840	663334/3950	
60MHz	DFT-s-OFDM BPSK	1	1	17.57	17.73	17.89	19.00
		1	160	17.41	17.69	17.53	19.00
		81	40	17.73	17.59	17.73	19.00
		162	0	17.79	17.57	18.07	19.00
	DFT-s-OFDM QPSK	1	1	17.63	17.83	17.54	19.00
		1	160	17.81	17.69	18.16	19.00
		81	40	18.00	17.68	18.13	19.00
		162	0	17.88	17.70	18.15	19.00
	DFT-s-OFDM	1	1	17.50	17.66	17.62	18.50
		1	1	17.50	17.66	17.62	18.50

	16QAM	81	40	17.65	17.73	17.69	18.50
	DFT-s-OFDM	1	1	17.60	17.76	17.40	18.50
	64QAM	81	40	17.64	17.42	17.54	18.50
	DFT-s-OFDM	1	1	17.72	18.00	17.86	18.50
	256QAM	81	40	17.65	17.73	17.39	18.50
	CP-OFDM QPSK	1	1	17.91	17.77	17.89	18.50
	CP-OFDM 16QAM	1	1	18.20	17.88	18.08	18.50
	CP-OFDM 64QAM	1	1	17.87	17.99	17.81	18.50
	CP-OFDM 256QAM	1	1	17.82	17.72	17.74	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	656000/3840	663000/3745	
70MHz	DFT-s-OFDM BPSK	1	1	17.75	17.81	18.07	19.00
		1	187	17.55	17.59	17.41	19.00
		92	45	17.67	17.47	17.89	19.00
		180	0	17.91	17.67	18.11	19.00
	DFT-s-OFDM QPSK	1	1	17.59	17.85	17.26	19.00
		1	187	17.89	17.59	18.14	19.00
		92	45	18.06	17.68	18.03	19.00
		180	0	17.92	17.68	17.95	19.00
	DFT-s-OFDM 16QAM	1	1	17.54	17.56	17.60	18.50
		92	46	17.77	17.45	17.61	18.50
	DFT-s-OFDM 64QAM	1	1	17.58	17.56	17.44	18.50
		92	46	17.86	17.56	17.46	18.50
	DFT-s-OFDM 256QAM	1	1	17.72	17.92	17.94	18.50
		92	46	17.93	17.69	17.67	18.50
	CP-OFDM QPSK	1	1	17.75	17.71	17.85	18.50
	CP-OFDM 16QAM	1	1	18.06	18.24	17.90	18.50
	CP-OFDM 64QAM	1	1	17.99	18.07	18.09	18.50
	CP-OFDM 256QAM	1	1	17.86	17.50	17.70	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	656000/3840	662666/3940	
80MHz	DFT-s-OFDM BPSK	1	1	17.67	17.43	17.65	19.00
		1	215	17.57	17.41	17.43	19.00
		108	54	17.39	17.53	17.83	19.00
		216	0	17.89	17.43	17.79	19.00
	DFT-s-OFDM QPSK	1	1	17.23	17.71	17.42	19.00
		1	215	17.79	17.57	18.26	19.00
		108	54	18.24	17.58	18.21	19.00
		216	0	18.08	17.44	17.81	19.00
	DFT-s-OFDM 16QAM	1	1	17.32	17.64	17.46	18.50
		108	54	17.67	17.73	17.65	18.50
	DFT-s-OFDM 64QAM	1	1	17.46	17.46	17.54	18.50
		108	54	17.90	17.72	17.50	18.50

	DFT-s-OFDM 256QAM	1	1	17.76	18.12	17.70	18.50
		108	54	17.51	17.75	17.61	18.50
	CP-OFDM QPSK	1	1	17.71	18.01	17.73	18.50
	CP-OFDM 16QAM	1	1	18.12	18.06	18.18	18.50
	CP-OFDM 64QAM	1	1	17.79	17.87	17.77	18.50
	CP-OFDM 256QAM	1	1	17.92	17.62	17.78	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	656000/3840	662333/3935	
90MHz	DFT-s-OFDM BPSK	1	1	17.87	17.81	17.85	19.00
		1	243	17.47	17.61	17.41	19.00
		120	60	17.63	17.55	17.65	19.00
		243	0	17.89	17.61	17.89	19.00
	DFT-s-OFDM QPSK	1	1	17.45	17.59	17.50	19.00
		1	243	17.67	17.63	18.08	19.00
		120	60	18.00	17.58	18.13	19.00
		243	0	17.76	17.72	17.91	19.00
	DFT-s-OFDM 16QAM	1	1	17.48	17.52	17.66	18.50
		120	60	17.83	17.55	17.55	18.50
	DFT-s-OFDM 64QAM	1	1	17.48	17.64	17.50	18.50
		120	60	17.74	17.62	17.52	18.50
	DFT-s-OFDM 256QAM	1	1	17.76	18.12	17.80	18.50
		120	60	17.67	17.57	17.49	18.50
	CP-OFDM QPSK	1	1	17.87	17.83	17.75	18.50
	CP-OFDM 16QAM	1	1	18.10	18.16	17.90	18.50
	CP-OFDM 64QAM	1	1	17.97	17.99	17.85	18.50
	CP-OFDM 256QAM	1	1	17.70	17.66	17.72	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				650000/3750	656000/3840	662000/3930	
100MHz	DFT-s-OFDM BPSK	1	1	17.73	17.71	17.89	19.00
		1	271	17.51	17.51	17.41	19.00
		135	67	17.67	17.57	17.75	19.00
		270	0	17.81	17.63	17.93	19.00
	DFT-s-OFDM QPSK	1	1	17.53	17.69	17.36	19.00
		1	271	17.71	17.51	18.18	19.00
		135	67	17.94	17.56	18.39	19.00
		270	0	17.86	17.58	17.97	19.00
	DFT-s-OFDM 16QAM	1	1	17.42	17.48	17.56	18.50
		135	67	17.83	17.57	17.63	18.50
	DFT-s-OFDM 64QAM	1	1	17.58	17.54	17.52	18.50
		135	67	17.78	17.58	17.58	18.50
	DFT-s-OFDM 256QAM	1	1	17.74	18.02	17.90	18.50
		135	67	17.77	17.63	17.57	18.50
	CP-OFDM QPSK	1	1	17.73	17.77	17.81	18.50

	CP-OFDM 16QAM	1	1	18.18	18.06	18.00	18.50
	CP-OFDM 64QAM	1	1	17.93	17.89	17.91	18.50
	CP-OFDM 256QAM	1	1	17.74	17.62	17.68	18.50

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Normal Power--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	22.35	22.47	22.35	24.00
		1	49	23.01	23.21	23.49	24.00
		25	12	23.21	23.15	23.29	24.00
		50	0	22.42	22.12	22.44	23.50
	DFT-s-OFDM QPSK	1	1	22.67	22.39	22.31	24.00
		1	49	23.11	23.09	23.01	24.00
		25	12	23.33	22.55	23.01	24.00
		50	0	22.15	22.25	22.03	23.00
	DFT-s-OFDM 16QAM	1	1	21.25	21.21	21.03	23.00
		25	12	21.93	21.67	21.65	23.00
	DFT-s-OFDM 64QAM	1	1	20.12	20.10	19.68	21.50
		25	12	20.39	20.59	20.45	21.50
	DFT-s-OFDM 256QAM	1	1	18.61	18.71	18.31	19.50
		25	12	18.56	18.64	18.56	19.50
	CP-OFDM QPSK	1	1	20.99	21.05	20.99	22.50
	CP-OFDM 16QAM	1	1	20.46	20.76	21.08	22.00
	CP-OFDM 64QAM	1	1	19.20	19.64	19.52	20.50
	CP-OFDM 256QAM	1	1	16.08	15.86	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	22.17	22.61	22.35	24.00
		1	76	22.91	23.17	23.17	24.00
		36	18	23.25	22.87	23.05	24.00
		75	0	22.22	22.12	22.38	23.50
	DFT-s-OFDM QPSK	1	1	22.55	22.37	22.11	24.00
		1	76	23.01	23.13	22.81	24.00
		36	18	23.29	22.71	22.67	24.00
		75	0	22.23	22.13	21.81	23.00
	DFT-s-OFDM 16QAM	1	1	21.17	21.23	21.11	23.00
		36	18	21.69	21.71	21.83	23.00
	DFT-s-OFDM 64QAM	1	1	19.88	19.94	19.80	21.50
		36	18	20.29	20.57	20.51	21.50
	DFT-s-OFDM 256QAM	1	1	18.69	18.45	18.27	19.50
		36	18	18.22	18.48	18.60	19.50
	CP-OFDM QPSK	1	1	21.09	20.99	20.85	22.50

	CP-OFDM 16QAM	1	1	20.60	20.78	20.90	22.00
	CP-OFDM 64QAM	1	1	19.08	19.40	19.40	20.50
	CP-OFDM 256QAM	1	1	16.10	16.04	16.16	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	22.21	22.55	22.35	24.00
		1	104	23.03	23.31	23.33	24.00
		50	25	23.15	23.07	23.17	24.00
		100	0	22.40	22.14	22.52	23.50
	DFT-s-OFDM QPSK	1	1	22.51	22.47	22.19	24.00
		1	104	22.99	23.17	22.95	24.00
		50	25	23.27	22.63	22.85	24.00
		100	0	22.15	22.11	21.95	23.00
	DFT-s-OFDM 16QAM	1	1	21.25	21.21	21.03	23.00
		50	25	21.85	21.69	21.75	23.00
	DFT-s-OFDM 64QAM	1	1	20.08	20.10	19.72	21.50
		50	25	20.27	20.61	20.49	21.50
	DFT-s-OFDM 256QAM	1	1	18.61	18.55	18.31	19.50
		50	25	18.40	18.58	18.58	19.50
	CP-OFDM QPSK	1	1	20.99	20.93	20.91	22.50
	CP-OFDM 16QAM	1	1	20.54	20.80	21.02	22.00
	CP-OFDM 64QAM	1	1	19.14	19.54	19.58	20.50
	CP-OFDM 256QAM	1	1	16.12	15.94	16.14	17.50
Bandwidth	Modulation	RB allocation	offset	17.72			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	22.45	22.57	22.35	24.00
		1	131	23.29	23.45	23.45	24.00
		64	32	23.19	23.05	23.19	24.00
		128	0	22.58	22.38	22.44	23.50
	DFT-s-OFDM QPSK	1	1	22.29	22.25	22.27	24.00
		1	131	23.17	23.17	23.11	24.00
		64	32	22.97	23.11	23.07	24.00
		128	0	22.09	22.17	21.87	23.00
	DFT-s-OFDM 16QAM	1	1	21.15	21.17	21.19	23.00
		64	32	22.11	21.99	22.05	23.00
	DFT-s-OFDM 64QAM	1	1	19.96	19.90	19.84	21.50
		64	32	20.53	20.63	20.69	21.50
	DFT-s-OFDM 256QAM	1	1	18.39	18.39	18.25	19.50
		64	32	18.52	18.44	18.74	19.50
	CP-OFDM QPSK	1	1	21.09	21.19	21.11	22.50
	CP-OFDM 16QAM	1	1	20.66	20.84	20.76	22.00
	CP-OFDM 64QAM	1	1	19.42	19.36	19.40	20.50
	CP-OFDM 256QAM	1	1	15.98	15.94	16.18	17.50

Bandwidth	Modulation	RB allocation	offset	17.84			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	22.53	22.49	22.51	24.00
		1	160	23.21	23.43	23.21	24.00
		81	40	22.97	23.03	22.91	24.00
		162	0	22.24	22.28	22.52	23.50
	DFT-s-OFDM QPSK	1	1	22.33	22.39	22.37	24.00
		1	160	23.07	22.99	22.99	24.00
		81	40	23.05	23.03	22.77	24.00
		162	0	21.95	22.15	21.75	23.00
	DFT-s-OFDM 16QAM	1	1	21.03	21.33	21.01	23.00
		81	40	21.95	21.99	22.01	23.00
	DFT-s-OFDM 64QAM	1	1	19.98	19.92	19.90	21.50
		81	40	20.47	20.45	20.61	21.50
	DFT-s-OFDM 256QAM	1	1	18.27	18.37	18.37	19.50
		81	40	18.44	18.56	18.78	19.50
	CP-OFDM QPSK	1	1	21.09	21.21	20.99	22.50
	CP-OFDM 16QAM	1	1	20.60	20.72	20.64	22.00
	CP-OFDM 64QAM	1	1	19.20	19.50	19.50	20.50
	CP-OFDM 256QAM	1	1	15.90	15.96	16.04	17.50
Bandwidth	Modulation	RB allocation	offset	17.76			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	22.37	22.49	22.45	24.00
		1	187	23.25	23.51	23.57	24.00
		92	45	23.07	22.91	23.23	24.00
		180	0	22.60	22.26	22.26	23.50
	DFT-s-OFDM QPSK	1	1	22.35	22.51	22.21	24.00
		1	187	22.97	23.01	23.23	24.00
		92	45	22.99	22.89	22.91	24.00
		180	0	22.05	22.07	21.81	23.00
	DFT-s-OFDM 16QAM	1	1	21.03	21.19	21.15	23.00
		92	46	22.07	21.93	22.01	23.00
	DFT-s-OFDM 64QAM	1	1	20.08	20.08	19.72	21.50
		92	46	20.57	20.29	20.57	21.50
	DFT-s-OFDM 256QAM	1	1	18.57	18.65	18.51	19.50
		92	46	18.46	18.44	18.64	19.50
	CP-OFDM QPSK	1	1	20.97	21.03	20.99	22.50
	CP-OFDM 16QAM	1	1	20.72	20.84	20.94	22.00
	CP-OFDM 64QAM	1	1	19.18	19.34	19.26	20.50
	CP-OFDM 256QAM	1	1	15.78	16.10	15.86	17.50
Bandwidth	Modulation	RB allocation	offset	17.98			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM	1	1	22.49	22.61	22.41	24.00

	BPSK	1	215	23.47	23.43	23.43	24.00
		108	54	23.13	23.19	23.05	24.00
		216	0	22.58	22.36	22.44	23.50
	DFT-s-OFDM QPSK	1	1	22.45	22.27	22.47	24.00
		1	215	23.23	23.01	23.21	24.00
		108	54	22.87	22.97	22.93	24.00
		216	0	21.97	22.21	21.83	23.00
	DFT-s-OFDM 16QAM	1	1	21.21	21.17	21.29	23.00
		108	54	22.03	21.85	21.89	23.00
	DFT-s-OFDM 64QAM	1	1	19.92	20.06	20.00	21.50
		108	54	20.59	20.61	20.79	21.50
	DFT-s-OFDM 256QAM	1	1	18.59	18.53	18.43	19.50
		108	54	18.76	18.66	18.78	19.50
	CP-OFDM QPSK	1	1	21.03	21.13	21.09	22.50
	CP-OFDM 16QAM	1	1	20.76	20.72	20.82	22.00
	CP-OFDM 64QAM	1	1	19.18	19.50	19.32	20.50
	CP-OFDM 256QAM	1	1	15.92	16.04	16.00	17.50
Bandwidth	Modulation	RB allocation	offset	17.98			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	22.53	22.51	22.45	24.00
		1	243	23.31	23.47	23.35	24.00
		120	60	23.03	23.01	23.05	24.00
		243	0	22.42	22.44	22.44	23.50
	DFT-s-OFDM QPSK	1	1	22.35	22.33	22.37	24.00
		1	243	23.11	23.09	23.15	24.00
		120	60	22.97	22.95	22.91	24.00
		243	0	21.95	22.11	21.95	23.00
	DFT-s-OFDM 16QAM	1	1	21.17	21.27	21.21	23.00
		120	60	21.97	21.89	21.93	23.00
	DFT-s-OFDM 64QAM	1	1	19.98	19.88	19.88	21.50
		120	60	20.49	20.47	20.61	21.50
	DFT-s-OFDM 256QAM	1	1	18.43	18.47	18.33	19.50
		120	60	18.62	18.50	18.70	19.50
	CP-OFDM QPSK	1	1	21.09	21.19	21.15	22.50
	CP-OFDM 16QAM	1	1	20.70	20.84	20.76	22.00
	CP-OFDM 64QAM	1	1	19.30	19.46	19.44	20.50
	CP-OFDM 256QAM	1	1	15.96	15.90	16.02	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	22.49	/	24.00
		1	271	/	23.15	/	24.00
		135	67	/	22.97	/	24.00
		270	0	/	22.44	/	23.50

	DFT-s-OFDM QPSK	1	1	/	22.45	/	24.00
		1	271	/	23.11	/	24.00
		135	67	/	22.95	/	24.00
		270	0	/	21.91	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.25	/	23.00
		135	67	/	21.91	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	19.80	/	21.50
		135	67	/	20.43	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.45	/	19.50
		135	67	/	18.46	/	19.50
	CP-OFDM QPSK	1	1	/	21.05	/	22.50
	CP-OFDM 16QAM	1	1	/	20.78	/	22.00
	CP-OFDM 64QAM	1	1	/	19.18	/	20.50
	CP-OFDM 256QAM	1	1	/	15.86	/	17.50

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Normal Power--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	650000/3750	652666/3790	
20MHz	DFT-s-OFDM BPSK	1	1	22.89	22.83	23.15	24.00
		1	49	22.85	23.17	23.09	24.00
		25	12	23.39	23.53	23.53	24.00
		50	0	22.56	22.92	22.52	23.50
	DFT-s-OFDM QPSK	1	1	22.99	22.73	22.99	24.00
		1	49	23.25	22.89	22.83	24.00
		25	12	23.27	23.17	23.75	24.00
		50	0	22.31	22.23	22.21	23.00
	DFT-s-OFDM 16QAM	1	1	21.88	21.90	21.84	23.00
		25	12	22.39	22.31	22.65	23.00
	DFT-s-OFDM 64QAM	1	1	20.33	20.49	20.09	21.50
		25	12	20.79	20.83	20.89	21.50
	DFT-s-OFDM 256QAM	1	1	18.98	19.16	19.20	19.50
		25	12	19.17	18.65	18.81	19.50
	CP-OFDM QPSK	1	1	21.82	21.40	21.34	22.50
	CP-OFDM 16QAM	1	1	21.18	21.24	21.14	22.00
	CP-OFDM 64QAM	1	1	19.84	19.90	19.52	20.50
	CP-OFDM 256QAM	1	1	16.43	16.63	16.17	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
30MHz	DFT-s-OFDM BPSK	1	1	22.97	23.17	23.37	24.00
		1	76	22.93	23.31	23.13	24.00
		36	18	23.35	23.65	23.69	24.00
		75	0	22.46	23.02	22.66	23.50

	DFT-s-OFDM QPSK	1	1	22.85	23.07	23.33	24.00
		1	76	23.41	23.11	22.85	24.00
		36	18	23.43	23.43	23.87	24.00
		75	0	22.53	22.17	22.29	23.00
	DFT-s-OFDM 16QAM	1	1	21.94	21.94	22.00	23.00
		36	18	22.55	22.59	22.51	23.00
	DFT-s-OFDM 64QAM	1	1	20.73	20.71	20.15	21.50
		36	18	20.87	21.03	21.07	21.50
	DFT-s-OFDM 256QAM	1	1	19.26	19.26	19.28	19.50
		36	18	18.97	18.71	18.55	19.50
	CP-OFDM QPSK	1	1	21.90	21.38	21.58	22.50
	CP-OFDM 16QAM	1	1	21.20	21.64	21.34	22.00
Bandwidth	CP-OFDM 64QAM	1	1	19.90	19.68	19.56	20.50
	CP-OFDM 256QAM	1	1	16.63	16.65	16.49	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	650000/3750	652000/3780	
40MHz	DFT-s-OFDM BPSK	1	1	22.97	23.03	23.33	24.00
		1	104	23.09	23.07	23.23	24.00
		50	25	23.31	23.83	23.51	24.00
		100	0	22.46	23.14	22.70	23.50
	DFT-s-OFDM QPSK	1	1	22.95	22.87	23.35	24.00
		1	104	23.43	23.03	22.97	24.00
		50	25	23.37	23.47	23.87	24.00
		100	0	22.49	22.41	22.33	23.00
	DFT-s-OFDM 16QAM	1	1	21.96	21.88	21.96	23.00
		50	25	22.73	22.55	22.59	23.00
	DFT-s-OFDM 64QAM	1	1	20.51	20.51	20.15	21.50
		50	25	20.89	20.85	20.99	21.50
	DFT-s-OFDM 256QAM	1	1	19.06	19.02	19.24	19.50
		50	25	19.19	18.71	18.81	19.50
	CP-OFDM QPSK	1	1	21.80	21.60	21.54	22.50
	CP-OFDM 16QAM	1	1	20.98	21.32	21.46	22.00
	CP-OFDM 64QAM	1	1	19.78	19.68	19.70	20.50
	CP-OFDM 256QAM	1	1	16.59	16.61	16.39	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648334/3725	650000/3750	651666/3775	
50MHz	DFT-s-OFDM BPSK	1	1	23.03	23.01	23.21	24.00
		1	131	23.01	23.17	23.11	24.00
		64	32	23.43	23.65	23.47	24.00
		128	0	22.54	23.10	22.64	23.50
	DFT-s-OFDM QPSK	1	1	23.03	22.87	23.19	24.00
		1	131	23.39	23.09	22.83	24.00
		64	32	23.33	23.35	23.69	24.00

		128	0	22.39	22.29	22.37	23.00
	DFT-s-OFDM 16QAM	1	1	21.88	21.90	21.92	23.00
		64	32	22.59	22.49	22.63	23.00
	DFT-s-OFDM 64QAM	1	1	20.53	20.49	20.21	21.50
		64	32	20.77	20.83	21.09	21.50
	DFT-s-OFDM 256QAM	1	1	19.06	19.08	19.36	19.50
		64	32	19.15	18.83	18.71	19.50
	CP-OFDM QPSK	1	1	21.78	21.42	21.46	22.50
	CP-OFDM 16QAM	1	1	21.08	21.42	21.34	22.00
	CP-OFDM 64QAM	1	1	19.82	19.80	19.66	20.50
	CP-OFDM 256QAM	1	1	16.47	16.67	16.27	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	650000/3750	651334/3770	
60MHz	DFT-s-OFDM BPSK	1	1	22.95	22.99	23.05	24.00
		1	160	23.11	23.11	23.19	24.00
		81	40	23.75	23.61	23.35	24.00
		162	0	22.92	23.02	22.80	23.50
	DFT-s-OFDM QPSK	1	1	23.03	23.23	23.17	24.00
		1	160	23.27	23.03	23.21	24.00
		81	40	23.57	23.43	23.73	24.00
		162	0	22.39	22.49	22.31	23.00
	DFT-s-OFDM 16QAM	1	1	21.76	21.86	21.88	23.00
		81	40	22.41	22.45	22.59	23.00
	DFT-s-OFDM 64QAM	1	1	20.45	20.47	20.21	21.50
		81	40	20.89	21.13	20.95	21.50
	DFT-s-OFDM 256QAM	1	1	19.04	19.08	19.20	19.50
		81	40	19.11	18.99	19.01	19.50
	CP-OFDM QPSK	1	1	21.68	21.90	21.78	22.50
	CP-OFDM 16QAM	1	1	21.54	21.48	21.48	22.00
	CP-OFDM 64QAM	1	1	19.98	19.88	19.82	20.50
	CP-OFDM 256QAM	1	1	16.37	16.51	16.31	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	650000/3750	651000/3765	
70MHz	DFT-s-OFDM BPSK	1	1	22.95	22.85	22.99	24.00
		1	187	23.13	23.05	23.01	24.00
		92	45	23.71	23.53	23.41	24.00
		180	0	22.66	22.98	22.86	23.50
	DFT-s-OFDM QPSK	1	1	22.91	23.07	22.87	24.00
		1	187	23.11	23.07	22.93	24.00
		92	45	23.43	23.41	23.61	24.00
		180	0	22.41	22.25	22.23	23.00
	DFT-s-OFDM 16QAM	1	1	21.68	21.64	21.92	23.00
		92	46	22.47	22.27	22.47	23.00

	DFT-s-OFDM 64QAM	1	1	20.43	20.35	20.25	21.50
		92	46	21.01	21.07	20.89	21.50
	DFT-s-OFDM 256QAM	1	1	18.92	19.02	18.96	19.50
		92	46	19.05	18.95	18.85	19.50
	CP-OFDM QPSK	1	1	21.82	21.84	21.62	22.50
	CP-OFDM 16QAM	1	1	21.34	21.46	21.48	22.00
	CP-OFDM 64QAM	1	1	19.86	19.90	19.88	20.50
	CP-OFDM 256QAM	1	1	16.25	16.49	16.33	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	650000/3750	650666/3760	
80MHz	DFT-s-OFDM BPSK	1	1	22.89	23.15	23.01	24.00
		1	215	23.25	23.27	23.33	24.00
		108	54	23.67	23.65	23.67	24.00
		216	0	22.72	23.10	22.66	23.50
	DFT-s-OFDM QPSK	1	1	23.09	23.01	23.07	24.00
		1	215	23.39	23.29	23.13	24.00
		108	54	23.57	23.39	23.45	24.00
		216	0	22.29	22.23	22.19	23.00
	DFT-s-OFDM 16QAM	1	1	22.00	22.02	22.10	23.00
		108	54	22.55	22.55	22.49	23.00
	DFT-s-OFDM 64QAM	1	1	20.41	20.65	20.31	21.50
		108	54	20.85	21.25	20.93	21.50
	DFT-s-OFDM 256QAM	1	1	18.86	18.96	18.88	19.50
		108	54	19.15	18.93	19.03	19.50
	CP-OFDM QPSK	1	1	21.74	21.80	21.78	22.50
	CP-OFDM 16QAM	1	1	21.42	21.60	21.20	22.00
	CP-OFDM 64QAM	1	1	19.92	19.66	19.76	20.50
	CP-OFDM 256QAM	1	1	16.25	16.71	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	650000/3750	650334/3755	
90MHz	DFT-s-OFDM BPSK	1	1	23.01	23.05	23.11	24.00
		1	243	23.03	23.07	23.11	24.00
		120	60	23.67	23.55	23.45	24.00
		243	0	22.82	22.94	22.84	23.50
	DFT-s-OFDM QPSK	1	1	23.05	23.13	23.03	24.00
		1	243	23.21	23.09	23.05	24.00
		120	60	23.41	23.45	23.57	24.00
		243	0	22.33	22.35	22.35	23.00
	DFT-s-OFDM 16QAM	1	1	21.86	21.84	21.90	23.00
		120	60	22.43	22.43	22.53	23.00
	DFT-s-OFDM 64QAM	1	1	20.47	20.49	20.31	21.50
		120	60	20.95	21.03	20.91	21.50
	DFT-s-OFDM	1	1	19.00	18.98	19.06	19.50

	256QAM	120	60	18.97	18.93	18.91	19.50
	CP-OFDM QPSK	1	1	21.76	21.74	21.76	22.50
	CP-OFDM 16QAM	1	1	21.38	21.48	21.38	22.00
	CP-OFDM 64QAM	1	1	19.88	19.84	19.82	20.50
	CP-OFDM 256QAM	1	1	16.39	16.59	16.35	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	650000/3750	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	23.11	/	24.00
		1	271	/	23.13	/	24.00
		135	67	/	23.55	/	24.00
		270	0	/	22.90	/	23.50
	DFT-s-OFDM QPSK	1	1	/	23.09	/	24.00
		1	271	/	23.11	/	24.00
		135	67	/	23.49	/	24.00
		270	0	/	22.39	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.84	/	23.00
		135	67	/	22.49	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.39	/	21.50
		135	67	/	20.95	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	19.04	/	19.50
		135	67	/	18.97	/	19.50
	CP-OFDM QPSK	1	1	/	21.66	/	22.50
	CP-OFDM 16QAM	1	1	/	21.40	/	22.00
	CP-OFDM 64QAM	1	1	/	19.78	/	20.50
	CP-OFDM 256QAM	1	1	/	16.45	/	17.50

n78							
Receiver off--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.35	18.53	18.75	20.00
		1	49	18.99	19.23	18.97	20.00
		25	12	19.06	18.86	19.26	20.00
		50	0	18.81	18.77	18.87	20.00
	DFT-s-OFDM QPSK	1	1	18.03	18.85	18.67	20.00
		1	49	18.96	19.72	19.54	20.00
		25	12	18.54	18.84	18.72	20.00
		50	0	19.01	18.65	18.73	20.00
	DFT-s-OFDM 16QAM	1	1	18.46	18.26	18.22	20.00
		25	12	18.73	18.83	18.93	20.00
	DFT-s-OFDM 64QAM	1	1	18.57	18.17	18.15	20.00
		25	12	18.67	18.93	19.09	20.00
	DFT-s-OFDM	1	1	18.71	18.21	18.33	20.00

	256QAM	25	12	18.35	18.25	18.35	20.00
	CP-OFDM QPSK	1	1	18.78	18.42	18.42	20.00
	CP-OFDM 16QAM	1	1	18.70	18.46	18.64	20.00
	CP-OFDM 64QAM	1	1	18.65	18.67	18.79	19.50
	CP-OFDM 256QAM	1	1	15.94	15.94	15.86	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.31	18.55	18.57	20.00
		1	76	19.01	19.19	19.13	20.00
		36	18	18.82	18.98	19.26	20.00
		75	0	18.63	18.71	18.73	20.00
	DFT-s-OFDM QPSK	1	1	18.01	18.65	18.35	20.00
		1	76	18.76	19.52	19.50	20.00
		36	18	18.56	18.90	18.48	20.00
		75	0	19.01	18.75	18.67	20.00
	DFT-s-OFDM 16QAM	1	1	18.20	18.40	18.26	20.00
		36	18	18.95	18.79	19.05	20.00
	DFT-s-OFDM 64QAM	1	1	18.41	18.23	18.33	20.00
		36	18	18.79	18.99	19.09	20.00
	DFT-s-OFDM 256QAM	1	1	18.83	18.10	18.37	20.00
		36	18	18.43	18.25	18.55	20.00
	CP-OFDM QPSK	1	1	18.84	18.50	18.28	20.00
	CP-OFDM 16QAM	1	1	18.96	18.42	18.46	20.00
	CP-OFDM 64QAM	1	1	18.79	18.69	18.93	19.50
	CP-OFDM 256QAM	1	1	16.04	15.92	15.84	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.43	18.53	18.57	20.00
		1	104	19.01	19.11	19.11	20.00
		50	25	18.86	18.90	19.36	20.00
		100	0	18.67	18.79	18.83	20.00
	DFT-s-OFDM QPSK	1	1	18.13	18.65	18.47	20.00
		1	104	18.88	19.56	19.32	20.00
		50	25	18.64	19.00	18.52	20.00
		100	0	19.05	18.75	18.75	20.00
	DFT-s-OFDM 16QAM	1	1	18.26	18.24	18.10	20.00
		50	25	18.85	18.77	18.97	20.00
	DFT-s-OFDM 64QAM	1	1	18.41	18.25	18.19	20.00
		50	25	18.71	18.83	19.21	20.00
	DFT-s-OFDM 256QAM	1	1	18.81	18.05	18.35	20.00
		50	25	18.45	18.25	18.41	20.00
	CP-OFDM QPSK	1	1	18.78	18.36	18.24	20.00
	CP-OFDM 16QAM	1	1	18.88	18.48	18.48	20.00

	CP-OFDM 64QAM	1	1	18.69	18.69	18.97	19.50
	CP-OFDM 256QAM	1	1	15.94	15.88	15.66	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.45	18.29	18.79	20.00
		1	131	19.11	19.51	19.29	20.00
		64	32	19.08	19.02	19.16	20.00
		128	0	18.85	18.99	18.87	20.00
	DFT-s-OFDM QPSK	1	1	18.29	18.59	18.41	20.00
		1	131	19.04	19.20	19.26	20.00
		64	32	18.80	19.06	18.52	20.00
		128	0	19.17	18.83	19.01	20.00
	DFT-s-OFDM 16QAM	1	1	18.40	18.26	18.40	20.00
		64	32	18.89	19.13	18.81	20.00
	DFT-s-OFDM 64QAM	1	1	18.45	18.35	18.07	20.00
		64	32	18.75	18.99	19.13	20.00
	DFT-s-OFDM 256QAM	1	1	18.65	18.27	18.53	20.00
		64	32	18.53	18.23	18.25	20.00
	CP-OFDM QPSK	1	1	18.84	18.28	18.66	20.00
	CP-OFDM 16QAM	1	1	18.90	18.56	18.94	20.00
	CP-OFDM 64QAM	1	1	18.83	18.75	18.83	19.50
	CP-OFDM 256QAM	1	1	16.18	16.00	15.72	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	18.47	18.31	18.63	20.00
		1	160	19.15	19.29	18.97	20.00
		81	40	18.90	18.90	19.32	20.00
		162	0	18.71	18.79	18.67	20.00
	DFT-s-OFDM QPSK	1	1	18.39	18.55	18.41	20.00
		1	160	19.02	19.06	19.20	20.00
		81	40	18.50	18.94	18.42	20.00
		162	0	18.81	18.63	18.75	20.00
	DFT-s-OFDM 16QAM	1	1	18.24	18.22	18.12	20.00
		81	40	18.83	18.81	18.81	20.00
	DFT-s-OFDM 64QAM	1	1	18.45	18.19	18.06	20.00
		81	40	18.91	19.03	19.09	20.00
	DFT-s-OFDM 256QAM	1	1	18.63	18.13	18.59	20.00
		81	40	18.25	18.17	18.21	20.00
	CP-OFDM QPSK	1	1	18.64	18.12	18.54	20.00
	CP-OFDM 16QAM	1	1	18.86	18.64	18.76	20.00
	CP-OFDM 64QAM	1	1	18.85	18.53	18.97	19.50
	CP-OFDM 256QAM	1	1	16.22	15.84	15.62	17.50
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up

		allocation		632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	18.45	18.29	18.77	20.00
		1	187	19.17	19.43	19.17	20.00
		92	45	19.10	18.88	19.24	20.00
		180	0	18.79	18.89	18.79	20.00
	DFT-s-OFDM QPSK	1	1	18.39	18.67	18.41	20.00
		1	187	18.98	19.26	19.30	20.00
		92	45	18.64	18.96	18.54	20.00
		180	0	19.01	18.67	18.95	20.00
	DFT-s-OFDM 16QAM	1	1	18.24	18.30	18.24	20.00
		92	46	18.91	19.01	18.81	20.00
	DFT-s-OFDM 64QAM	1	1	18.41	18.39	18.15	20.00
		92	46	18.85	18.97	19.09	20.00
	DFT-s-OFDM 256QAM	1	1	18.69	18.17	18.51	20.00
		92	46	18.37	18.27	18.33	20.00
	CP-OFDM QPSK	1	1	18.82	18.32	18.50	20.00
	CP-OFDM 16QAM	1	1	18.80	18.62	18.78	20.00
	CP-OFDM 64QAM	1	1	18.75	18.59	18.89	19.50
	CP-OFDM 256QAM	1	1	16.12	15.92	15.76	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.51	18.29	18.51	20.00
		1	215	19.15	19.35	19.05	20.00
		108	54	18.80	18.76	18.92	20.00
		216	0	18.85	19.01	18.93	20.00
	DFT-s-OFDM QPSK	1	1	18.43	18.57	18.57	20.00
		1	215	19.16	19.30	19.30	20.00
		108	54	18.76	18.86	18.78	20.00
		216	0	19.01	18.67	18.89	20.00
	DFT-s-OFDM 16QAM	1	1	18.42	18.08	18.54	20.00
		108	54	18.83	19.01	18.99	20.00
	DFT-s-OFDM 64QAM	1	1	18.31	18.37	18.31	20.00
		108	54	18.95	18.63	18.97	20.00
	DFT-s-OFDM 256QAM	1	1	18.67	18.33	18.49	20.00
		108	54	18.49	18.35	18.37	20.00
	CP-OFDM QPSK	1	1	18.58	18.50	18.30	20.00
	CP-OFDM 16QAM	1	1	18.64	18.74	18.74	20.00
	CP-OFDM 64QAM	1	1	18.63	18.69	18.87	19.50
	CP-OFDM 256QAM	1	1	16.02	15.78	15.62	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	18.53	18.41	18.55	20.00
		1	243	19.21	19.23	19.05	20.00

		120	60	18.92	18.78	19.02	20.00
		243	0	18.93	18.83	18.87	20.00
	DFT-s-OFDM QPSK	1	1	18.49	18.47	18.57	20.00
		1	243	19.14	19.16	19.16	20.00
		120	60	18.72	18.88	18.72	20.00
		243	0	18.89	18.71	18.91	20.00
	DFT-s-OFDM 16QAM	1	1	18.26	18.16	18.36	20.00
		120	60	18.89	18.93	18.83	20.00
	DFT-s-OFDM 64QAM	1	1	18.27	18.35	18.25	20.00
		120	60	18.79	18.75	18.97	20.00
	DFT-s-OFDM 256QAM	1	1	18.55	18.27	18.43	20.00
		120	60	18.45	18.37	18.37	20.00
	CP-OFDM QPSK	1	1	18.62	18.50	18.38	20.00
	CP-OFDM 16QAM	1	1	18.68	18.80	18.70	20.00
	CP-OFDM 64QAM	1	1	18.55	18.75	18.73	19.50
	CP-OFDM 256QAM	1	1	15.96	15.84	15.72	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.53	/	20.00
		1	271	/	19.17	/	20.00
		135	67	/	18.94	/	20.00
		270	0	/	18.87	/	20.00
	DFT-s-OFDM QPSK	1	1	/	18.51	/	20.00
		1	271	/	19.18	/	20.00
		135	67	/	18.92	/	20.00
		270	0	/	18.87	/	20.00
	DFT-s-OFDM 16QAM	1	1	/	18.28	/	20.00
		135	67	/	18.95	/	20.00
	DFT-s-OFDM 64QAM	1	1	/	18.33	/	20.00
		135	67	/	18.93	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	18.47	/	20.00
		135	67	/	18.47	/	20.00
	CP-OFDM QPSK	1	1	/	18.58	/	20.00
	CP-OFDM 16QAM	1	1	/	18.86	/	20.00
	CP-OFDM 64QAM	1	1	/	18.71	/	19.50
	CP-OFDM 256QAM	1	1	/	15.88	/	17.50

n78							
Receiver off--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	650000/3750	652666/3790	
20MHz	DFT-s-OFDM BPSK	1	1	19.33	19.13	18.97	20.00
		1	49	19.22	18.84	18.98	20.00

		25	12	19.03	19.41	19.31	20.00
		50	0	19.21	19.39	19.37	20.00
	DFT-s-OFDM QPSK	1	1	19.13	18.95	19.17	20.00
		1	49	19.27	18.93	19.05	20.00
		25	12	19.18	19.64	19.40	20.00
		50	0	19.17	19.53	19.05	20.00
	DFT-s-OFDM 16QAM	1	1	18.83	18.59	19.09	20.00
		25	12	19.11	19.15	19.41	20.00
	DFT-s-OFDM 64QAM	1	1	19.02	18.40	18.98	20.00
		25	12	19.31	19.37	19.21	20.00
	DFT-s-OFDM 256QAM	1	1	18.94	18.88	19.04	20.00
		25	12	19.22	19.02	18.90	20.00
	CP-OFDM QPSK	1	1	19.32	19.06	19.26	20.00
	CP-OFDM 16QAM	1	1	19.22	19.60	19.10	20.00
	CP-OFDM 64QAM	1	1	19.16	19.30	19.16	20.00
	CP-OFDM 256QAM	1	1	16.52	16.30	16.74	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647666/3715	650000/3750	652333/3785	
30MHz	DFT-s-OFDM BPSK	1	1	19.37	19.29	19.31	20.00
		1	76	19.46	18.76	19.04	20.00
		36	18	19.15	19.49	19.65	20.00
		75	0	19.45	19.65	19.23	20.00
	DFT-s-OFDM QPSK	1	1	19.33	19.27	19.19	20.00
		1	76	19.47	19.05	19.45	20.00
		36	18	19.30	19.64	19.54	20.00
		75	0	19.37	19.31	19.37	20.00
	DFT-s-OFDM 16QAM	1	1	18.93	18.55	18.89	20.00
		36	18	19.07	19.51	19.59	20.00
	DFT-s-OFDM 64QAM	1	1	19.34	18.52	18.96	20.00
		36	18	19.37	19.55	19.31	20.00
	DFT-s-OFDM 256QAM	1	1	18.88	18.74	19.04	20.00
		36	18	19.26	19.26	19.02	20.00
	CP-OFDM QPSK	1	1	19.32	19.30	19.28	20.00
	CP-OFDM 16QAM	1	1	19.10	19.50	19.28	20.00
	CP-OFDM 64QAM	1	1	19.10	19.34	19.06	20.00
	CP-OFDM 256QAM	1	1	16.80	16.64	16.82	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	650000/3750	652000/3780	
40MHz	DFT-s-OFDM BPSK	1	1	19.33	19.07	19.03	20.00
		1	104	19.44	18.94	19.14	20.00
		50	25	19.21	19.51	19.53	20.00
		100	0	19.37	19.73	19.29	20.00
	DFT-s-OFDM	1	1	19.33	19.09	19.33	20.00

	QPSK	1	104	19.37	19.19	19.39	20.00
		50	25	19.50	19.50	19.48	20.00
		100	0	19.27	19.49	19.31	20.00
	DFT-s-OFDM 16QAM	1	1	18.67	18.59	19.09	20.00
		50	25	19.23	19.29	19.77	20.00
	DFT-s-OFDM 64QAM	1	1	19.26	18.52	18.94	20.00
		50	25	19.47	19.57	19.39	20.00
	DFT-s-OFDM 256QAM	1	1	18.98	18.86	19.06	20.00
		50	25	19.22	19.12	19.06	20.00
	CP-OFDM QPSK	1	1	19.22	19.28	19.44	20.00
	CP-OFDM 16QAM	1	1	19.30	19.54	19.30	20.00
	CP-OFDM 64QAM	1	1	19.30	19.26	19.12	20.00
	CP-OFDM 256QAM	1	1	16.68	16.66	16.60	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648334/3725	650000/3750	651666/3775	
50MHz	DFT-s-OFDM BPSK	1	1	19.39	19.15	19.15	20.00
		1	131	19.38	18.90	19.02	20.00
		64	32	19.13	19.39	19.45	20.00
		128	0	19.23	19.57	19.37	20.00
	DFT-s-OFDM QPSK	1	1	19.25	19.07	19.23	20.00
		1	131	19.27	19.05	19.23	20.00
		64	32	19.32	19.62	19.50	20.00
		128	0	19.15	19.43	19.21	20.00
	DFT-s-OFDM 16QAM	1	1	18.73	18.63	19.05	20.00
		64	32	19.23	19.33	19.61	20.00
	DFT-s-OFDM 64QAM	1	1	19.18	18.60	18.88	20.00
		64	32	19.35	19.45	19.39	20.00
	DFT-s-OFDM 256QAM	1	1	19.02	18.82	18.96	20.00
		64	32	19.14	19.18	18.96	20.00
	CP-OFDM QPSK	1	1	19.24	19.24	19.26	20.00
	CP-OFDM 16QAM	1	1	19.26	19.52	19.30	20.00
	CP-OFDM 64QAM	1	1	19.28	19.26	19.12	20.00
	CP-OFDM 256QAM	1	1	16.68	16.48	16.68	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	650000/3750	651334/3770	
60MHz	DFT-s-OFDM BPSK	1	1	19.19	19.21	19.23	20.00
		1	160	19.30	19.04	19.04	20.00
		81	40	19.35	19.33	19.55	20.00
		162	0	19.33	19.25	19.41	20.00
	DFT-s-OFDM QPSK	1	1	19.07	19.19	19.27	20.00
		1	160	19.19	19.29	19.27	20.00
		81	40	19.58	19.38	19.46	20.00
		162	0	19.45	19.47	19.35	20.00

	DFT-s-OFDM 16QAM	1	1	18.87	18.87	19.05	20.00
		81	40	19.61	19.55	19.55	20.00
	DFT-s-OFDM 64QAM	1	1	18.98	19.06	19.08	20.00
		81	40	19.43	19.41	19.55	20.00
	DFT-s-OFDM 256QAM	1	1	19.00	18.98	19.08	20.00
		81	40	19.08	18.90	18.86	20.00
	CP-OFDM QPSK	1	1	19.20	19.14	19.26	20.00
	CP-OFDM 16QAM	1	1	19.40	19.42	19.34	20.00
	CP-OFDM 64QAM	1	1	19.24	19.34	19.24	20.00
	CP-OFDM 256QAM	1	1	16.60	16.52	16.36	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	650000/3750	651000/3765	
70MHz	DFT-s-OFDM BPSK	1	1	18.91	19.07	19.15	20.00
		1	187	19.12	19.16	19.24	20.00
		92	45	19.33	19.53	19.31	20.00
		180	0	19.29	19.25	19.25	20.00
	DFT-s-OFDM QPSK	1	1	19.07	19.15	18.91	20.00
		1	187	19.23	19.05	19.11	20.00
		92	45	19.42	19.54	19.54	20.00
		180	0	19.47	19.37	19.43	20.00
	DFT-s-OFDM 16QAM	1	1	18.91	18.79	18.89	20.00
		92	46	19.33	19.55	19.33	20.00
	DFT-s-OFDM 64QAM	1	1	18.92	18.78	18.82	20.00
		92	46	19.51	19.47	19.53	20.00
	DFT-s-OFDM 256QAM	1	1	18.92	19.12	19.08	20.00
		92	46	18.74	18.86	18.90	20.00
	CP-OFDM QPSK	1	1	19.12	19.16	18.98	20.00
	CP-OFDM 16QAM	1	1	19.44	19.44	19.52	20.00
	CP-OFDM 64QAM	1	1	19.22	19.14	19.30	20.00
	CP-OFDM 256QAM	1	1	16.50	16.42	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	650000/3750	650666/3760	
80MHz	DFT-s-OFDM BPSK	1	1	18.93	19.23	19.19	20.00
		1	215	19.32	19.36	19.04	20.00
		108	54	19.57	19.45	19.61	20.00
		216	0	19.31	19.33	19.49	20.00
	DFT-s-OFDM QPSK	1	1	19.27	19.03	19.05	20.00
		1	215	19.27	19.17	19.19	20.00
		108	54	19.58	19.26	19.50	20.00
		216	0	19.43	19.23	19.41	20.00
	DFT-s-OFDM 16QAM	1	1	18.89	19.05	18.75	20.00
		108	54	19.27	19.67	19.59	20.00
	DFT-s-OFDM	1	1	18.84	19.04	19.04	20.00

	64QAM	108	54	19.43	19.41	19.67	20.00
	DFT-s-OFDM	1	1	18.92	18.94	18.96	20.00
	256QAM	108	54	19.00	19.14	18.96	20.00
	CP-OFDM QPSK	1	1	19.08	19.28	19.04	20.00
	CP-OFDM 16QAM	1	1	19.54	19.32	19.36	20.00
	CP-OFDM 64QAM	1	1	19.20	19.34	19.40	20.00
	CP-OFDM 256QAM	1	1	16.30	16.26	16.42	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	650000/3750	650334/3755	
90MHz	DFT-s-OFDM BPSK	1	1	19.07	19.15	18.99	20.00
		1	243	19.06	19.04	19.04	20.00
		120	60	19.43	19.43	19.39	20.00
		243	0	19.49	19.47	19.51	20.00
	DFT-s-OFDM QPSK	1	1	19.23	19.19	18.99	20.00
		1	243	19.03	19.19	19.23	20.00
		120	60	19.50	19.42	19.34	20.00
		243	0	19.51	19.37	19.29	20.00
	DFT-s-OFDM 16QAM	1	1	18.99	18.77	18.99	20.00
		120	60	19.43	19.43	19.33	20.00
	DFT-s-OFDM 64QAM	1	1	18.94	19.02	18.92	20.00
		120	60	19.41	19.33	19.41	20.00
	DFT-s-OFDM 256QAM	1	1	19.06	18.98	19.02	20.00
		120	60	19.08	19.12	18.98	20.00
	CP-OFDM QPSK	1	1	19.30	19.34	19.20	20.00
	CP-OFDM 16QAM	1	1	19.62	19.44	19.56	20.00
	CP-OFDM 64QAM	1	1	19.28	19.20	19.16	20.00
	CP-OFDM 256QAM	1	1	16.52	16.46	16.46	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	650000/3750	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	19.11	/	20.00
		1	271	/	19.14	/	20.00
		135	67	/	19.43	/	20.00
		270	0	/	19.35	/	20.00
	DFT-s-OFDM QPSK	1	1	/	19.11	/	20.00
		1	271	/	19.13	/	20.00
		135	67	/	19.44	/	20.00
		270	0	/	19.37	/	20.00
	DFT-s-OFDM 16QAM	1	1	/	18.89	/	20.00
		135	67	/	19.45	/	20.00
	DFT-s-OFDM 64QAM	1	1	/	18.92	/	20.00
		135	67	/	19.45	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	19.04	/	20.00
		135	67	/	18.94	/	20.00

	CP-OFDM QPSK	1	1	/	19.16	/	20.00
	CP-OFDM 16QAM	1	1	/	19.44	/	20.00
	CP-OFDM 64QAM	1	1	/	19.28	/	20.00
	CP-OFDM 256QAM	1	1	/	16.44	/	17.50

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Receiver on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.65	16.55	16.63	18.00
		1	49	17.12	17.06	17.26	18.00
		25	12	17.15	17.11	17.01	18.00
		50	0	16.90	16.98	16.86	18.00
	DFT-s-OFDM QPSK	1	1	16.76	16.38	16.48	18.00
		1	49	17.33	16.95	17.37	18.00
		25	12	16.79	17.09	16.69	18.00
		50	0	16.95	16.97	17.11	18.00
	DFT-s-OFDM 16QAM	1	1	16.28	16.20	16.08	18.00
		25	12	16.90	16.74	16.90	18.00
	DFT-s-OFDM 64QAM	1	1	16.41	16.29	16.19	18.00
		25	12	16.74	17.06	16.86	18.00
	DFT-s-OFDM 256QAM	1	1	16.98	16.80	16.58	18.00
		25	12	17.14	16.96	16.76	18.00
	CP-OFDM QPSK	1	1	16.65	16.71	16.49	18.00
	CP-OFDM 16QAM	1	1	16.72	16.68	16.68	18.00
	CP-OFDM 64QAM	1	1	16.60	16.86	16.70	18.00
	CP-OFDM 256QAM	1	1	15.82	15.96	15.98	17.50
Bandwidth	Modulation	RB allocation	offset	17.64			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	16.73	16.33	16.71	18.00
		1	76	17.32	17.10	17.02	18.00
		36	18	16.99	17.21	16.83	18.00
		75	0	16.74	16.96	16.64	18.00
	DFT-s-OFDM QPSK	1	1	16.96	16.44	16.58	18.00
		1	76	17.35	17.13	17.35	18.00
		36	18	16.61	16.87	16.95	18.00
		75	0	17.05	17.01	17.25	18.00
	DFT-s-OFDM 16QAM	1	1	16.32	16.42	16.24	18.00
		36	18	17.26	16.98	17.08	18.00
	DFT-s-OFDM 64QAM	1	1	16.43	16.59	16.17	18.00
		36	18	17.00	17.02	16.96	18.00
	DFT-s-OFDM 256QAM	1	1	16.90	17.12	16.92	18.00
		36	18	17.26	17.00	16.90	18.00

	CP-OFDM QPSK	1	1	16.49	16.75	16.49	18.00
	CP-OFDM 16QAM	1	1	16.66	16.82	16.76	18.00
	CP-OFDM 64QAM	1	1	16.68	16.88	16.74	18.00
	CP-OFDM 256QAM	1	1	15.70	16.16	16.04	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	16.75	16.45	16.91	18.00
		1	104	17.20	17.10	17.24	18.00
		50	25	17.27	16.99	16.79	18.00
		100	0	16.92	16.82	16.96	18.00
	DFT-s-OFDM QPSK	1	1	16.92	16.62	16.68	18.00
		1	104	17.33	17.31	17.25	18.00
		50	25	16.85	17.15	16.79	18.00
		100	0	16.81	16.99	17.01	18.00
	DFT-s-OFDM 16QAM	1	1	16.24	16.46	16.24	18.00
		50	25	17.14	16.92	17.18	18.00
	DFT-s-OFDM 64QAM	1	1	16.61	16.41	16.43	18.00
		50	25	17.02	17.16	16.88	18.00
	DFT-s-OFDM 256QAM	1	1	17.10	16.88	16.94	18.00
		50	25	17.08	17.22	16.94	18.00
	CP-OFDM QPSK	1	1	16.49	16.57	16.39	18.00
	CP-OFDM 16QAM	1	1	16.64	16.82	16.68	18.00
	CP-OFDM 64QAM	1	1	16.72	16.98	16.74	18.00
	CP-OFDM 256QAM	1	1	15.94	16.12	15.90	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	16.61	16.47	16.73	18.00
		1	131	17.14	17.10	17.20	18.00
		64	32	17.13	17.03	16.91	18.00
		128	0	16.88	16.88	16.82	18.00
	DFT-s-OFDM QPSK	1	1	16.80	16.50	16.58	18.00
		1	131	17.37	17.13	17.27	18.00
		64	32	16.79	17.01	16.77	18.00
		128	0	16.91	17.11	17.09	18.00
	DFT-s-OFDM 16QAM	1	1	16.32	16.30	16.16	18.00
		64	32	17.06	16.82	17.00	18.00
	DFT-s-OFDM 64QAM	1	1	16.57	16.39	16.29	18.00
		64	32	16.88	17.14	16.94	18.00
	DFT-s-OFDM 256QAM	1	1	16.94	17.00	16.78	18.00
		64	32	17.12	17.08	16.90	18.00
	CP-OFDM QPSK	1	1	16.57	16.69	16.47	18.00
	CP-OFDM 16QAM	1	1	16.66	16.84	16.72	18.00
	CP-OFDM 64QAM	1	1	16.74	16.86	16.72	18.00

	CP-OFDM 256QAM	1	1	15.76	15.98	15.98	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	16.43	16.31	16.63	18.00
		1	160	17.06	17.04	17.04	18.00
		81	40	16.87	16.89	16.87	18.00
		162	0	16.76	17.00	16.74	18.00
	DFT-s-OFDM QPSK	1	1	16.56	16.68	16.34	18.00
		1	160	17.11	17.09	17.13	18.00
		81	40	16.83	16.87	16.65	18.00
		162	0	17.01	17.01	16.79	18.00
	DFT-s-OFDM 16QAM	1	1	16.30	16.20	16.24	18.00
		81	40	16.98	16.90	16.78	18.00
	DFT-s-OFDM 64QAM	1	1	16.29	16.31	16.35	18.00
		81	40	17.04	16.88	16.76	18.00
	DFT-s-OFDM 256QAM	1	1	16.94	16.94	16.94	18.00
		81	40	16.92	16.92	16.84	18.00
	CP-OFDM QPSK	1	1	16.39	16.57	16.45	18.00
	CP-OFDM 16QAM	1	1	16.60	16.70	16.62	18.00
	CP-OFDM 64QAM	1	1	16.72	16.90	16.86	18.00
	CP-OFDM 256QAM	1	1	15.78	15.70	15.86	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	16.39	16.31	16.67	18.00
		1	187	16.98	17.06	17.22	18.00
		92	45	17.01	17.01	16.83	18.00
		180	0	16.98	16.76	16.80	18.00
	DFT-s-OFDM QPSK	1	1	16.56	16.62	16.34	18.00
		1	187	17.35	17.23	17.07	18.00
		92	45	17.09	16.99	16.89	18.00
		180	0	17.07	17.19	17.11	18.00
	DFT-s-OFDM 16QAM	1	1	16.24	16.24	16.32	18.00
		92	46	16.90	17.04	17.04	18.00
	DFT-s-OFDM 64QAM	1	1	16.59	16.45	16.19	18.00
		92	46	17.16	17.12	16.86	18.00
	DFT-s-OFDM 256QAM	1	1	16.92	16.80	16.78	18.00
		92	46	16.88	16.96	16.98	18.00
	CP-OFDM QPSK	1	1	16.57	16.79	16.63	18.00
	CP-OFDM 16QAM	1	1	16.88	16.70	16.90	18.00
	CP-OFDM 64QAM	1	1	16.92	16.68	16.86	18.00
	CP-OFDM 256QAM	1	1	15.90	15.90	15.74	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	

80MHz	DFT-s-OFDM BPSK	1	1	16.47	16.43	16.53	18.00
		1	215	17.14	17.14	17.22	18.00
		108	54	17.17	16.99	16.99	18.00
		216	0	16.88	16.86	16.80	18.00
	DFT-s-OFDM QPSK	1	1	16.78	16.48	16.40	18.00
		1	215	17.11	17.15	17.13	18.00
		108	54	16.99	16.85	16.91	18.00
		216	0	16.91	16.95	16.95	18.00
	DFT-s-OFDM 16QAM	1	1	16.34	16.24	16.38	18.00
		108	54	16.90	16.82	17.02	18.00
	DFT-s-OFDM 64QAM	1	1	16.49	16.41	16.41	18.00
		108	54	16.96	16.98	16.96	18.00
	DFT-s-OFDM 256QAM	1	1	16.84	16.98	16.92	18.00
		108	54	17.06	17.12	17.12	18.00
	CP-OFDM QPSK	1	1	16.61	16.79	16.49	18.00
	CP-OFDM 16QAM	1	1	16.62	16.84	16.72	18.00
	CP-OFDM 64QAM	1	1	16.70	16.90	16.94	18.00
	CP-OFDM 256QAM	1	1	15.94	16.00	15.84	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	16.51	16.45	16.61	18.00
		1	243	17.10	17.06	17.06	18.00
		120	60	17.07	17.09	16.89	18.00
		243	0	16.86	16.94	16.92	18.00
	DFT-s-OFDM QPSK	1	1	16.64	16.58	16.52	18.00
		1	243	17.21	17.09	17.13	18.00
		120	60	16.89	16.91	16.85	18.00
		243	0	16.97	17.01	16.99	18.00
	DFT-s-OFDM 16QAM	1	1	16.32	16.18	16.26	18.00
		120	60	16.96	16.90	16.88	18.00
	DFT-s-OFDM 64QAM	1	1	16.45	16.37	16.29	18.00
		120	60	16.96	17.08	16.88	18.00
	DFT-s-OFDM 256QAM	1	1	16.84	16.96	16.84	18.00
		120	60	17.04	16.98	16.96	18.00
	CP-OFDM QPSK	1	1	16.55	16.65	16.57	18.00
	CP-OFDM 16QAM	1	1	16.74	16.88	16.76	18.00
	CP-OFDM 64QAM	1	1	16.78	16.80	16.76	18.00
	CP-OFDM 256QAM	1	1	15.78	15.86	15.88	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	16.49	/	18.00
		1	271	/	17.16	/	18.00
		135	67	/	16.95	/	18.00

		270	0	/	16.90	/	18.00
	DFT-s-OFDM QPSK	1	1	/	16.48	/	18.00
		1	271	/	17.17	/	18.00
		135	67	/	16.95	/	18.00
		270	0	/	16.91	/	18.00
	DFT-s-OFDM 16QAM	1	1	/	16.26	/	18.00
		135	67	/	16.94	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	16.31	/	18.00
		135	67	/	16.94	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	16.90	/	18.00
		135	67	/	16.96	/	18.00
	CP-OFDM QPSK	1	1	/	16.53	/	18.00
	CP-OFDM 16QAM	1	1	/	16.78	/	18.00
	CP-OFDM 64QAM	1	1	/	16.64	/	18.00
	CP-OFDM 256QAM	1	1	/	15.86	/	17.50

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Receiver on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	650000/3750	652666/3790	
20MHz	DFT-s-OFDM BPSK	1	1	17.20	16.92	17.00	18.00
		1	49	17.39	16.81	16.83	18.00
		25	12	17.90	17.86	17.70	18.00
		50	0	17.29	17.19	17.23	18.00
	DFT-s-OFDM QPSK	1	1	16.74	17.18	16.84	18.00
		1	49	17.59	17.39	17.29	18.00
		25	12	17.60	16.96	17.50	18.00
		50	0	17.68	17.12	17.32	18.00
	DFT-s-OFDM 16QAM	1	1	17.37	17.13	16.49	18.00
		25	12	17.62	17.54	17.20	18.00
	DFT-s-OFDM 64QAM	1	1	16.66	16.98	16.80	18.00
		25	12	17.08	17.60	17.38	18.00
	DFT-s-OFDM 256QAM	1	1	17.31	17.55	17.11	18.00
		25	12	17.51	17.97	17.45	18.00
	CP-OFDM QPSK	1	1	17.15	17.67	17.11	18.00
	CP-OFDM 16QAM	1	1	17.27	17.13	17.27	18.00
	CP-OFDM 64QAM	1	1	17.10	17.20	17.12	18.00
	CP-OFDM 256QAM	1	1	16.40	16.98	16.44	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
30MHz	DFT-s-OFDM BPSK	1	1	17.06	16.98	16.84	18.00
		1	76	17.27	16.79	16.91	18.00
		36	18	17.76	17.68	17.86	18.00

		75	0	17.19	17.29	17.29	18.00
	DFT-s-OFDM QPSK	1	1	16.86	17.16	16.90	18.00
		1	76	17.49	17.25	17.35	18.00
		36	18	17.58	16.98	17.60	18.00
		75	0	17.56	17.12	17.28	18.00
	DFT-s-OFDM 16QAM	1	1	17.29	17.11	16.55	18.00
		36	18	17.48	17.58	17.32	18.00
	DFT-s-OFDM 64QAM	1	1	16.60	16.92	16.74	18.00
		36	18	16.94	17.58	17.38	18.00
	DFT-s-OFDM 256QAM	1	1	17.23	17.49	17.03	18.00
		36	18	17.49	17.87	17.51	18.00
	CP-OFDM QPSK	1	1	17.03	17.51	16.93	18.00
	CP-OFDM 16QAM	1	1	17.29	17.15	17.35	18.00
	CP-OFDM 64QAM	1	1	16.98	17.28	17.08	18.00
	CP-OFDM 256QAM	1	1	16.22	16.98	16.36	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	650000/3750	652000/3780	
40MHz	DFT-s-OFDM BPSK	1	1	17.18	17.32	17.04	18.00
		1	104	17.01	16.87	16.97	18.00
		50	25	17.42	17.54	17.54	18.00
		100	0	17.15	17.25	17.37	18.00
	DFT-s-OFDM QPSK	1	1	16.78	16.94	16.88	18.00
		1	104	17.35	17.07	17.33	18.00
		50	25	17.50	17.36	17.58	18.00
		100	0	17.44	17.22	17.14	18.00
	DFT-s-OFDM 16QAM	1	1	16.99	16.99	16.65	18.00
		50	25	17.54	17.64	17.54	18.00
	DFT-s-OFDM 64QAM	1	1	16.74	16.98	16.88	18.00
		50	25	17.32	17.40	17.30	18.00
	DFT-s-OFDM 256QAM	1	1	17.19	17.51	17.39	18.00
		50	25	17.43	17.71	17.67	18.00
	CP-OFDM QPSK	1	1	16.99	17.19	17.01	18.00
	CP-OFDM 16QAM	1	1	17.39	17.19	17.29	18.00
	CP-OFDM 64QAM	1	1	17.06	17.60	17.34	18.00
	CP-OFDM 256QAM	1	1	16.38	16.78	16.46	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648334/3725	650000/3750	651666/3775	
50MHz	DFT-s-OFDM BPSK	1	1	16.92	17.28	17.20	18.00
		1	131	17.03	16.83	16.89	18.00
		64	32	17.52	17.50	17.70	18.00
		128	0	17.05	17.21	17.27	18.00
	DFT-s-OFDM QPSK	1	1	16.70	16.82	16.96	18.00
		1	131	17.25	17.25	17.13	18.00

		64	32	17.70	17.20	17.54	18.00
		128	0	17.48	16.92	17.16	18.00
	DFT-s-OFDM 16QAM	1	1	16.91	17.07	16.61	18.00
		64	32	17.54	17.52	17.56	18.00
	DFT-s-OFDM 64QAM	1	1	16.84	16.92	16.58	18.00
		64	32	17.08	17.56	17.30	18.00
	DFT-s-OFDM 256QAM	1	1	17.33	17.47	17.45	18.00
		64	32	17.13	17.59	17.49	18.00
	CP-OFDM QPSK	1	1	16.95	17.19	16.97	18.00
	CP-OFDM 16QAM	1	1	17.41	17.35	17.23	18.00
	CP-OFDM 64QAM	1	1	16.98	17.34	17.08	18.00
	CP-OFDM 256QAM	1	1	16.22	16.54	16.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	650000/3750	651334/3770	
60MHz	DFT-s-OFDM BPSK	1	1	17.32	17.42	16.96	18.00
		1	160	16.85	16.71	17.15	18.00
		81	40	17.44	17.46	17.58	18.00
		162	0	17.09	17.13	17.51	18.00
	DFT-s-OFDM QPSK	1	1	17.10	17.02	17.08	18.00
		1	160	17.29	17.31	17.37	18.00
		81	40	17.44	17.34	17.56	18.00
		162	0	17.48	17.10	17.26	18.00
	DFT-s-OFDM 16QAM	1	1	17.07	16.83	16.51	18.00
		81	40	17.72	17.66	17.66	18.00
	DFT-s-OFDM 64QAM	1	1	16.90	17.12	16.90	18.00
		81	40	17.24	17.32	17.32	18.00
	DFT-s-OFDM 256QAM	1	1	17.29	17.45	17.21	18.00
		81	40	17.39	17.89	17.67	18.00
	CP-OFDM QPSK	1	1	17.15	17.47	16.97	18.00
	CP-OFDM 16QAM	1	1	17.39	17.23	17.29	18.00
	CP-OFDM 64QAM	1	1	17.18	17.44	17.12	18.00
	CP-OFDM 256QAM	1	1	16.40	16.90	16.62	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	650000/3750	651000/3765	
70MHz	DFT-s-OFDM BPSK	1	1	17.06	17.32	17.16	18.00
		1	187	16.93	16.87	16.87	18.00
		92	45	17.68	17.60	17.68	18.00
		180	0	17.09	17.21	17.57	18.00
	DFT-s-OFDM QPSK	1	1	16.78	17.00	16.92	18.00
		1	187	17.31	17.07	17.37	18.00
		92	45	17.70	17.12	17.50	18.00
		180	0	17.52	17.16	17.28	18.00
	DFT-s-OFDM	1	1	17.09	17.17	16.57	18.00
		1	1	17.09	17.17	16.57	18.00

	16QAM	92	46	17.54	17.66	17.52	18.00
	DFT-s-OFDM	1	1	16.92	17.04	16.64	18.00
	64QAM	92	46	17.32	17.66	17.52	18.00
	DFT-s-OFDM	1	1	17.35	17.69	17.39	18.00
	256QAM	92	46	17.45	17.65	17.43	18.00
	CP-OFDM QPSK	1	1	17.13	17.45	17.09	18.00
	CP-OFDM 16QAM	1	1	17.41	17.47	17.33	18.00
	CP-OFDM 64QAM	1	1	16.98	17.44	17.32	18.00
	CP-OFDM 256QAM	1	1	16.30	16.84	16.42	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	650000/3750	650666/3760	
80MHz	DFT-s-OFDM BPSK	1	1	17.10	17.30	17.10	18.00
		1	215	17.03	16.81	16.93	18.00
		108	54	17.50	17.64	17.64	18.00
		216	0	17.19	17.31	17.47	18.00
	DFT-s-OFDM QPSK	1	1	16.88	17.02	16.86	18.00
		1	215	17.25	17.15	17.19	18.00
		108	54	17.60	17.20	17.56	18.00
		216	0	17.50	17.10	17.18	18.00
	DFT-s-OFDM 16QAM	1	1	17.09	17.01	16.51	18.00
		108	54	17.54	17.68	17.64	18.00
	DFT-s-OFDM 64QAM	1	1	16.74	17.00	16.76	18.00
		108	54	17.24	17.48	17.34	18.00
	DFT-s-OFDM 256QAM	1	1	17.29	17.57	17.39	18.00
		108	54	17.29	17.73	17.55	18.00
	CP-OFDM QPSK	1	1	16.95	17.27	17.09	18.00
	CP-OFDM 16QAM	1	1	17.39	17.29	17.33	18.00
	CP-OFDM 64QAM	1	1	17.04	17.54	17.26	18.00
	CP-OFDM 256QAM	1	1	16.40	16.70	16.40	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	650000/3750	650334/3755	
90MHz	DFT-s-OFDM BPSK	1	1	17.08	17.12	16.92	18.00
		1	243	17.05	17.19	17.01	18.00
		120	60	17.28	17.34	17.44	18.00
		243	0	17.37	17.17	17.17	18.00
	DFT-s-OFDM QPSK	1	1	16.90	16.88	16.84	18.00
		1	243	16.91	17.05	16.91	18.00
		120	60	17.54	17.48	17.24	18.00
		243	0	17.28	17.28	17.26	18.00
	DFT-s-OFDM 16QAM	1	1	16.71	16.85	16.63	18.00
		120	60	17.42	17.42	17.46	18.00
	DFT-s-OFDM 64QAM	1	1	16.84	16.68	16.82	18.00
		120	60	17.34	17.48	17.48	18.00

	DFT-s-OFDM 256QAM	1	1	17.33	17.45	17.47	18.00
		120	60	17.43	17.31	17.29	18.00
	CP-OFDM QPSK	1	1	16.91	16.99	17.17	18.00
	CP-OFDM 16QAM	1	1	17.39	17.39	17.19	18.00
	CP-OFDM 64QAM	1	1	17.14	17.18	17.12	18.00
	CP-OFDM 256QAM	1	1	16.36	16.28	16.36	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	650000/3750	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	17.06	/	18.00
		1	271	/	17.11	/	18.00
		135	67	/	17.46	/	18.00
		270	0	/	17.33	/	18.00
	DFT-s-OFDM QPSK	1	1	/	17.04	/	18.00
		1	271	/	17.11	/	18.00
		135	67	/	17.44	/	18.00
		270	0	/	17.34	/	18.00
	DFT-s-OFDM 16QAM	1	1	/	16.81	/	18.00
		135	67	/	17.46	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	16.86	/	18.00
		135	67	/	17.44	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	17.45	/	18.00
		135	67	/	17.47	/	18.00
	CP-OFDM QPSK	1	1	/	17.11	/	18.00
	CP-OFDM 16QAM	1	1	/	17.35	/	18.00
	CP-OFDM 64QAM	1	1	/	17.22	/	18.00
	CP-OFDM 256QAM	1	1	/	16.42	/	17.50

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Hotspot on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	17.46	17.32	17.50	19.00
		1	49	18.35	18.11	18.03	19.00
		25	12	17.99	18.23	17.89	19.00
		50	0	17.90	17.72	18.08	19.00
	DFT-s-OFDM QPSK	1	1	17.34	17.36	17.64	19.00
		1	49	18.02	18.48	18.14	19.00
		25	12	17.77	18.07	17.73	19.00
		50	0	17.58	17.84	17.56	19.00
	DFT-s-OFDM 16QAM	1	1	17.09	17.45	17.77	19.00
		25	12	17.98	17.92	17.88	19.00
	DFT-s-OFDM 64QAM	1	1	17.61	17.27	17.53	19.00
		25	12	18.11	18.01	18.09	19.00

	DFT-s-OFDM	1	1	18.20	17.86	18.00	19.00
	256QAM	25	12	18.12	17.96	18.00	19.00
	CP-OFDM QPSK	1	1	17.73	17.69	17.43	19.00
	CP-OFDM 16QAM	1	1	17.97	18.01	17.63	19.00
	CP-OFDM 64QAM	1	1	18.01	17.73	17.61	19.00
	CP-OFDM 256QAM	1	1	16.10	16.02	15.96	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	17.66	17.34	17.70	19.00
		1	76	18.23	17.95	18.09	19.00
		36	18	17.87	18.13	17.71	19.00
		75	0	18.28	18.04	18.36	19.00
	DFT-s-OFDM QPSK	1	1	17.68	17.66	17.56	19.00
		1	76	18.06	18.58	18.38	19.00
		36	18	17.93	18.01	17.99	19.00
		75	0	17.56	18.04	17.58	19.00
	DFT-s-OFDM 16QAM	1	1	17.07	17.61	17.79	19.00
		36	18	17.94	18.22	18.04	19.00
	DFT-s-OFDM 64QAM	1	1	17.41	17.41	17.61	19.00
		36	18	18.03	17.95	18.17	19.00
	DFT-s-OFDM 256QAM	1	1	18.02	17.70	17.96	19.00
		36	18	17.90	18.00	17.92	19.00
	CP-OFDM QPSK	1	1	17.63	17.69	17.35	19.00
	CP-OFDM 16QAM	1	1	17.95	18.01	17.87	19.00
	CP-OFDM 64QAM	1	1	17.91	17.73	17.73	19.00
	CP-OFDM 256QAM	1	1	15.70	15.90	16.04	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	17.54	17.50	17.70	19.00
		1	104	18.39	17.97	18.07	19.00
		50	25	17.97	18.27	17.81	19.00
		100	0	18.24	17.90	18.28	19.00
	DFT-s-OFDM QPSK	1	1	17.56	17.38	17.64	19.00
		1	104	18.10	18.48	18.16	19.00
		50	25	18.11	18.27	17.93	19.00
		100	0	17.64	17.92	17.52	19.00
	DFT-s-OFDM 16QAM	1	1	17.11	17.43	17.85	19.00
		50	25	18.06	17.92	17.90	19.00
	DFT-s-OFDM 64QAM	1	1	17.45	17.51	17.47	19.00
		50	25	17.99	18.19	18.35	19.00
	DFT-s-OFDM 256QAM	1	1	18.32	17.90	18.20	19.00
		50	25	18.18	18.10	18.22	19.00
	CP-OFDM QPSK	1	1	17.97	17.99	17.53	19.00

	CP-OFDM 16QAM	1	1	17.75	18.19	17.87	19.00
	CP-OFDM 64QAM	1	1	18.11	17.85	17.59	19.00
	CP-OFDM 256QAM	1	1	15.90	15.92	15.88	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	17.58	17.44	17.64	19.00
		1	131	18.31	18.03	18.15	19.00
		64	32	18.03	18.19	17.81	19.00
		128	0	18.08	17.84	18.20	19.00
	DFT-s-OFDM QPSK	1	1	17.54	17.50	17.62	19.00
		1	131	18.06	18.38	18.16	19.00
		64	32	17.95	18.11	17.91	19.00
		128	0	17.74	18.04	17.58	19.00
	DFT-s-OFDM 16QAM	1	1	17.05	17.43	17.79	19.00
		64	32	18.08	18.04	17.92	19.00
	DFT-s-OFDM 64QAM	1	1	17.57	17.39	17.47	19.00
		64	32	18.09	18.03	18.19	19.00
	DFT-s-OFDM 256QAM	1	1	18.16	17.86	18.06	19.00
		64	32	18.08	18.08	18.10	19.00
	CP-OFDM QPSK	1	1	17.81	17.85	17.53	19.00
	CP-OFDM 16QAM	1	1	17.87	18.11	17.79	19.00
	CP-OFDM 64QAM	1	1	17.99	17.83	17.65	19.00
	CP-OFDM 256QAM	1	1	15.54	15.98	16.00	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	17.34	17.30	17.44	19.00
		1	160	18.23	17.97	17.97	19.00
		81	40	18.13	18.31	17.81	19.00
		162	0	18.00	17.52	18.00	19.00
	DFT-s-OFDM QPSK	1	1	17.52	17.46	17.78	19.00
		1	160	18.16	18.42	18.18	19.00
		81	40	17.67	18.23	17.91	19.00
		162	0	17.64	17.98	17.70	19.00
	DFT-s-OFDM 16QAM	1	1	17.23	17.21	17.57	19.00
		81	40	18.08	17.96	17.90	19.00
	DFT-s-OFDM 64QAM	1	1	17.43	17.29	17.49	19.00
		81	40	18.05	17.99	18.15	19.00
	DFT-s-OFDM 256QAM	1	1	18.00	17.86	17.96	19.00
		81	40	18.24	17.86	18.18	19.00
	CP-OFDM QPSK	1	1	17.67	17.83	17.31	19.00
	CP-OFDM 16QAM	1	1	17.89	17.81	17.53	19.00
	CP-OFDM 64QAM	1	1	17.93	17.77	17.73	19.00
	CP-OFDM 256QAM	1	1	15.58	15.96	15.74	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	17.48	17.44	17.74	19.00
		1	187	18.25	17.91	18.21	19.00
		92	45	18.29	18.43	17.93	19.00
		180	0	17.82	17.88	18.14	19.00
	DFT-s-OFDM QPSK	1	1	17.42	17.42	17.76	19.00
		1	187	17.94	18.52	18.28	19.00
		92	45	17.97	18.31	18.07	19.00
		180	0	17.76	17.92	17.78	19.00
	DFT-s-OFDM 16QAM	1	1	17.01	17.49	17.51	19.00
		92	46	18.08	18.04	18.02	19.00
	DFT-s-OFDM 64QAM	1	1	17.69	17.39	17.51	19.00
		92	46	18.17	17.81	18.01	19.00
	DFT-s-OFDM 256QAM	1	1	18.36	17.78	17.84	19.00
		92	46	18.28	17.96	18.14	19.00
	CP-OFDM QPSK	1	1	17.71	17.79	17.43	19.00
	CP-OFDM 16QAM	1	1	18.09	18.01	17.69	19.00
	CP-OFDM 64QAM	1	1	17.97	17.69	17.79	19.00
	CP-OFDM 256QAM	1	1	15.82	16.18	16.02	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	17.40	17.52	17.70	19.00
		1	215	18.41	18.09	18.17	19.00
		108	54	18.27	18.39	17.69	19.00
		216	0	17.98	17.64	18.10	19.00
	DFT-s-OFDM QPSK	1	1	17.62	17.48	17.74	19.00
		1	215	18.02	18.26	18.12	19.00
		108	54	17.93	18.29	18.09	19.00
		216	0	17.82	18.20	17.54	19.00
	DFT-s-OFDM 16QAM	1	1	17.05	17.29	17.71	19.00
		108	54	18.16	18.08	18.02	19.00
	DFT-s-OFDM 64QAM	1	1	17.63	17.49	17.49	19.00
		108	54	17.97	18.09	18.07	19.00
	DFT-s-OFDM 256QAM	1	1	18.06	17.92	18.08	19.00
		108	54	18.18	18.08	18.26	19.00
	CP-OFDM QPSK	1	1	17.67	17.81	17.55	19.00
	CP-OFDM 16QAM	1	1	17.95	18.09	17.63	19.00
	CP-OFDM 64QAM	1	1	18.07	17.87	17.73	19.00
	CP-OFDM 256QAM	1	1	15.74	16.04	15.78	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM	1	1	17.44	17.50	17.52	19.00

	BPSK	1	243	18.39	18.07	18.13	19.00
		120	60	18.09	18.27	17.77	19.00
		243	0	17.98	17.72	18.06	19.00
	DFT-s-OFDM QPSK	1	1	17.50	17.60	17.72	19.00
		1	243	18.12	18.34	18.22	19.00
		120	60	17.85	18.13	17.97	19.00
		243	0	17.80	18.02	17.64	19.00
	DFT-s-OFDM 16QAM	1	1	17.01	17.41	17.67	19.00
		120	60	18.04	17.90	18.00	19.00
	DFT-s-OFDM 64QAM	1	1	17.53	17.41	17.53	19.00
		120	60	18.05	17.97	18.17	19.00
	DFT-s-OFDM 256QAM	1	1	18.18	17.94	17.96	19.00
		120	60	18.18	18.00	18.10	19.00
	CP-OFDM QPSK	1	1	17.77	17.75	17.41	19.00
	CP-OFDM 16QAM	1	1	17.95	18.01	17.65	19.00
	CP-OFDM 64QAM	1	1	17.93	17.71	17.73	19.00
	CP-OFDM 256QAM	1	1	15.64	16.02	15.90	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	17.56	/	19.00
		1	271	/	18.17	/	19.00
		135	67	/	17.95	/	19.00
		270	0	/	17.86	/	19.00
	DFT-s-OFDM QPSK	1	1	/	17.56	/	19.00
		1	271	/	18.18	/	19.00
		135	67	/	17.95	/	19.00
		270	0	/	17.90	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	17.33	/	19.00
		135	67	/	17.94	/	19.00
	DFT-s-OFDM 64QAM	1	1	/	17.37	/	19.00
		135	67	/	17.95	/	19.00
	DFT-s-OFDM 256QAM	1	1	/	17.98	/	19.00
		135	67	/	17.96	/	19.00
	CP-OFDM QPSK	1	1	/	17.59	/	19.00
	CP-OFDM 16QAM	1	1	/	17.87	/	19.00
	CP-OFDM 64QAM	1	1	/	17.71	/	19.00
	CP-OFDM 256QAM	1	1	/	15.94	/	17.50

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Hotspot on--Main ANT2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647334/3710	650000/3750	652666/3790	
20MHz	DFT-s-OFDM	1	1	18.18	18.34	18.10	19.00

	BPSK	1	49	17.89	18.45	17.95	19.00
		25	12	18.62	18.28	18.58	19.00
		50	0	18.17	18.17	18.45	19.00
	DFT-s-OFDM QPSK	1	1	18.39	18.35	18.15	19.00
		1	49	17.95	18.11	18.13	19.00
		25	12	18.59	18.53	18.85	19.00
		50	0	18.36	18.46	18.24	19.00
	DFT-s-OFDM 16QAM	1	1	17.76	17.64	17.72	19.00
		25	12	18.23	18.21	18.29	19.00
	DFT-s-OFDM 64QAM	1	1	18.24	17.68	18.06	19.00
		25	12	18.52	18.28	18.64	19.00
	DFT-s-OFDM 256QAM	1	1	18.18	18.56	18.44	19.00
		25	12	18.82	18.42	18.42	19.00
	CP-OFDM QPSK	1	1	18.15	18.09	18.05	19.00
	CP-OFDM 16QAM	1	1	18.48	18.16	18.32	19.00
	CP-OFDM 64QAM	1	1	18.10	17.94	18.30	19.00
	CP-OFDM 256QAM	1	1	16.15	15.93	16.61	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647666/3715	650000/3750	652333/3785	
30MHz	DFT-s-OFDM BPSK	1	1	18.12	18.00	18.00	19.00
		1	76	18.19	18.73	18.13	19.00
		36	18	18.60	18.44	18.46	19.00
		75	0	18.51	18.27	18.29	19.00
	DFT-s-OFDM QPSK	1	1	18.21	18.39	18.25	19.00
		1	76	18.11	18.39	18.15	19.00
		36	18	18.49	18.59	18.69	19.00
		75	0	18.28	18.42	18.28	19.00
	DFT-s-OFDM 16QAM	1	1	17.78	17.74	17.72	19.00
		36	18	18.37	18.29	18.35	19.00
	DFT-s-OFDM 64QAM	1	1	18.18	17.82	18.02	19.00
		36	18	18.76	18.30	18.60	19.00
	DFT-s-OFDM 256QAM	1	1	18.34	18.42	18.32	19.00
		36	18	18.54	18.62	18.44	19.00
	CP-OFDM QPSK	1	1	18.41	18.09	17.99	19.00
	CP-OFDM 16QAM	1	1	18.54	18.20	18.42	19.00
	CP-OFDM 64QAM	1	1	18.24	18.12	18.30	19.00
	CP-OFDM 256QAM	1	1	16.33	16.17	16.71	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648000/3720	650000/3750	652000/3780	
40MHz	DFT-s-OFDM BPSK	1	1	18.10	18.12	18.12	19.00
		1	104	18.07	18.55	18.07	19.00
		50	25	18.48	18.36	18.46	19.00
		100	0	18.35	18.33	18.27	19.00

	DFT-s-OFDM QPSK	1	1	18.21	18.21	18.13	19.00
		1	104	18.07	18.23	18.17	19.00
		50	25	18.55	18.55	18.63	19.00
		100	0	18.26	18.30	18.12	19.00
	DFT-s-OFDM 16QAM	1	1	17.76	17.76	17.64	19.00
		50	25	18.31	18.19	18.19	19.00
	DFT-s-OFDM 64QAM	1	1	18.04	17.80	17.90	19.00
		50	25	18.66	18.34	18.60	19.00
	DFT-s-OFDM 256QAM	1	1	18.26	18.44	18.30	19.00
		50	25	18.60	18.52	18.50	19.00
	CP-OFDM QPSK	1	1	18.33	18.19	18.09	19.00
	CP-OFDM 16QAM	1	1	18.58	18.08	18.34	19.00
Bandwidth	CP-OFDM 64QAM	1	1	18.24	18.10	18.16	19.00
	CP-OFDM 256QAM	1	1	16.23	15.99	16.55	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648334/3725	650000/3750	651666/3775	
50MHz	DFT-s-OFDM BPSK	1	1	18.08	18.36	18.40	19.00
		1	131	18.37	18.33	18.09	19.00
		64	32	18.40	18.34	18.30	19.00
		128	0	18.29	18.41	18.43	19.00
	DFT-s-OFDM QPSK	1	1	18.33	18.31	18.25	19.00
		1	131	18.13	18.21	18.33	19.00
		64	32	18.33	18.55	18.45	19.00
		128	0	18.22	18.46	18.50	19.00
	DFT-s-OFDM 16QAM	1	1	17.78	17.80	17.76	19.00
		64	32	18.31	18.47	18.43	19.00
	DFT-s-OFDM 64QAM	1	1	18.12	17.98	17.98	19.00
		64	32	18.42	18.48	18.40	19.00
	DFT-s-OFDM 256QAM	1	1	18.06	18.34	18.50	19.00
		64	32	18.42	18.62	18.62	19.00
	CP-OFDM QPSK	1	1	18.07	18.19	18.29	19.00
	CP-OFDM 16QAM	1	1	18.42	18.46	18.46	19.00
	CP-OFDM 64QAM	1	1	18.30	18.34	18.40	19.00
	CP-OFDM 256QAM	1	1	16.15	16.45	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				648666/3730	650000/3750	651334/3770	
60MHz	DFT-s-OFDM BPSK	1	1	18.04	18.20	18.30	19.00
		1	160	18.27	18.11	17.97	19.00
		81	40	18.60	18.36	18.24	19.00
		162	0	18.45	18.37	18.25	19.00
	DFT-s-OFDM QPSK	1	1	17.97	18.05	18.15	19.00
		1	160	17.87	18.05	18.09	19.00
		81	40	18.23	18.33	18.35	19.00

		162	0	18.38	18.28	18.28	19.00
	DFT-s-OFDM 16QAM	1	1	17.66	17.74	17.90	19.00
		81	40	18.27	18.15	18.35	19.00
	DFT-s-OFDM 64QAM	1	1	17.98	17.72	17.96	19.00
		81	40	18.46	18.40	18.26	19.00
	DFT-s-OFDM 256QAM	1	1	18.06	18.22	18.36	19.00
		81	40	18.38	18.50	18.48	19.00
	CP-OFDM QPSK	1	1	18.13	17.97	18.17	19.00
	CP-OFDM 16QAM	1	1	18.30	18.46	18.44	19.00
Bandwidth	CP-OFDM 64QAM	1	1	18.36	18.22	18.44	19.00
	CP-OFDM 256QAM	1	1	16.21	16.29	16.39	17.50
	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649000/3735	650000/3750	651000/3765	
70MHz	DFT-s-OFDM BPSK	1	1	18.12	18.30	18.14	19.00
		1	187	18.11	18.33	18.03	19.00
		92	45	18.40	18.24	18.44	19.00
		180	0	18.21	18.55	18.19	19.00
	DFT-s-OFDM QPSK	1	1	18.05	18.09	18.17	19.00
		1	187	18.13	18.37	18.15	19.00
		92	45	18.41	18.47	18.37	19.00
		180	0	18.46	18.34	18.62	19.00
	DFT-s-OFDM 16QAM	1	1	17.64	17.98	17.74	19.00
		92	46	18.25	18.21	18.55	19.00
	DFT-s-OFDM 64QAM	1	1	18.20	17.90	17.78	19.00
		92	46	18.38	18.30	18.54	19.00
	DFT-s-OFDM 256QAM	1	1	17.98	18.34	18.18	19.00
		92	46	18.30	18.54	18.52	19.00
	CP-OFDM QPSK	1	1	18.23	18.33	18.23	19.00
	CP-OFDM 16QAM	1	1	18.28	18.52	18.46	19.00
	CP-OFDM 64QAM	1	1	18.34	18.26	18.36	19.00
	CP-OFDM 256QAM	1	1	16.27	16.45	16.53	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649334/3740	650000/3750	650666/3760	
80MHz	DFT-s-OFDM BPSK	1	1	17.92	18.20	18.32	19.00
		1	215	18.47	18.17	17.99	19.00
		108	54	18.68	18.26	18.44	19.00
		216	0	18.39	18.49	18.25	19.00
	DFT-s-OFDM QPSK	1	1	18.31	18.37	18.23	19.00
		1	215	18.01	18.35	18.07	19.00
		108	54	18.55	18.45	18.53	19.00
		216	0	18.20	18.32	18.28	19.00
	DFT-s-OFDM 16QAM	1	1	17.96	17.88	17.90	19.00
		108	54	18.27	18.41	18.55	19.00

	DFT-s-OFDM 64QAM	1	1	18.10	17.92	17.98	19.00
		108	54	18.46	18.58	18.42	19.00
	DFT-s-OFDM 256QAM	1	1	18.14	18.28	18.30	19.00
		108	54	18.62	18.62	18.56	19.00
	CP-OFDM QPSK	1	1	18.03	18.27	18.41	19.00
	CP-OFDM 16QAM	1	1	18.48	18.44	18.34	19.00
	CP-OFDM 64QAM	1	1	18.20	18.28	18.48	19.00
	CP-OFDM 256QAM	1	1	16.25	16.37	16.39	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				649666/3745	650000/3750	650334/3755	
90MHz	DFT-s-OFDM BPSK	1	1	18.00	18.20	18.24	19.00
		1	243	18.29	18.25	18.09	19.00
		120	60	18.50	18.32	18.32	19.00
		243	0	18.39	18.39	18.33	19.00
	DFT-s-OFDM QPSK	1	1	18.17	18.21	18.15	19.00
		1	243	18.07	18.23	18.19	19.00
		120	60	18.43	18.53	18.53	19.00
		243	0	18.30	18.38	18.40	19.00
	DFT-s-OFDM 16QAM	1	1	17.78	17.82	17.84	19.00
		120	60	18.35	18.35	18.47	19.00
	DFT-s-OFDM 64QAM	1	1	18.06	17.90	17.92	19.00
		120	60	18.48	18.46	18.44	19.00
	DFT-s-OFDM 256QAM	1	1	18.08	18.30	18.34	19.00
		120	60	18.46	18.48	18.54	19.00
	CP-OFDM QPSK	1	1	18.05	18.15	18.31	19.00
	CP-OFDM 16QAM	1	1	18.38	18.42	18.36	19.00
	CP-OFDM 64QAM	1	1	18.28	18.30	18.34	19.00
	CP-OFDM 256QAM	1	1	16.23	16.33	16.41	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	650000/3750	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.08	/	19.00
		1	271	/	18.13	/	19.00
		135	67	/	18.40	/	19.00
		270	0	/	18.35	/	19.00
	DFT-s-OFDM QPSK	1	1	/	18.09	/	19.00
		1	271	/	18.11	/	19.00
		135	67	/	18.41	/	19.00
		270	0	/	18.36	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	17.86	/	19.00
		135	67	/	18.41	/	19.00
	DFT-s-OFDM 64QAM	1	1	/	17.92	/	19.00
		135	67	/	18.42	/	19.00
	DFT-s-OFDM	1	1	/	18.18	/	19.00

	256QAM	135	67	/	18.44	/	19.00
	CP-OFDM QPSK	1	1	/	18.15	/	19.00
	CP-OFDM 16QAM	1	1	/	18.46	/	19.00
	CP-OFDM 64QAM	1	1	/	18.30	/	19.00
	CP-OFDM 256QAM	1	1	/	16.33	/	17.50

9.5.2 LTE (EN-DC)

LTE B2							
Normal Power&Receiver on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	22.81	22.73	22.40	23.50
		1	2	23.04	22.41	22.24	23.50
		1	5	22.69	22.26	22.58	23.50
		3	0	22.72	22.30	22.26	23.50
		3	2	22.69	22.51	22.14	23.50
		3	3	22.52	22.13	22.30	23.50
		6	0	21.89	21.40	21.46	22.50
	16QAM	1	0	21.93	21.89	21.47	22.50
		1	2	21.33	21.79	21.71	22.50
		1	5	21.28	21.36	21.00	22.50
		3	0	21.27	21.59	21.27	22.50
		3	2	21.11	21.39	21.07	22.50
		3	3	21.30	21.10	20.82	22.50
		6	0	20.52	20.46	20.16	21.50
	64QAM	1	0	20.51	20.87	20.53	21.50
		1	2	20.56	20.54	20.70	21.50
		1	5	20.50	20.34	19.90	21.50
		3	0	20.56	20.40	20.06	21.50
		3	2	20.07	20.35	19.77	21.50
		3	3	20.14	20.14	19.94	21.50
		6	0	19.57	19.43	19.35	20.50
	256QAM	1	0	17.38	17.52	17.04	18.50
		1	2	17.40	17.34	16.78	18.50
		1	5	16.74	16.84	16.70	18.50
		3	0	17.35	17.53	17.25	18.50
		3	2	17.54	17.60	17.42	18.50
		3	3	17.34	17.42	17.30	18.50
		6	0	17.32	17.52	17.18	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	

3MHz	QPSK	1	0	22.75	22.53	22.24	23.50
		1	7	22.88	22.41	22.28	23.50
		1	14	22.51	22.24	22.48	23.50
		8	0	21.86	21.50	21.26	22.50
		8	4	21.77	21.43	21.28	22.50
		8	7	21.80	21.39	21.40	22.50
		15	0	21.61	21.40	21.42	22.50
	16QAM	1	0	21.71	21.83	21.45	22.50
		1	7	21.29	21.65	21.37	22.50
		1	14	21.40	21.26	21.04	22.50
		8	0	20.53	20.59	20.29	21.50
		8	4	20.33	20.33	20.25	21.50
		8	7	20.24	20.10	19.80	21.50
		15	0	20.28	20.36	20.18	21.50
	64QAM	1	0	20.65	20.73	20.57	21.50
		1	7	20.72	20.48	20.32	21.50
		1	14	20.28	20.22	19.82	21.50
		8	0	19.56	19.34	19.06	20.50
		8	4	19.21	19.55	19.13	20.50
		8	7	19.52	19.26	18.70	20.50
		15	0	19.13	19.39	18.95	20.50
	256QAM	1	0	17.30	17.52	17.12	18.50
		1	7	17.34	17.38	17.06	18.50
		1	14	16.76	17.00	16.58	18.50
		8	0	17.37	17.57	17.51	18.50
		8	4	17.42	17.50	17.24	18.50
		8	7	17.36	17.20	16.98	18.50
		15	0	17.64	17.46	17.06	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.85	22.69	22.40	23.50
		1	13	22.82	22.63	22.52	23.50
		1	24	22.79	22.40	22.56	23.50
		12	0	21.92	21.58	21.46	22.50
		12	6	21.93	21.55	21.48	22.50
		12	13	21.86	21.31	21.30	22.50
		25	0	21.95	21.40	21.46	22.50
	16QAM	1	0	21.81	21.75	21.45	22.50
		1	13	21.49	21.55	21.45	22.50
		1	24	21.30	21.14	21.16	22.50
		12	0	20.71	20.63	20.25	21.50
		12	6	20.43	20.51	20.35	21.50
		12	13	20.22	20.24	19.84	21.50

	64QAM	25	0	20.42	20.52	20.18	21.50
		1	0	20.63	20.77	20.45	21.50
		1	13	20.62	20.70	20.40	21.50
		1	24	20.42	20.32	20.06	21.50
		12	0	19.68	19.52	19.30	20.50
		12	6	19.39	19.47	19.21	20.50
		12	13	19.36	19.42	19.00	20.50
		25	0	19.31	19.31	19.21	20.50
	256QAM	1	0	17.22	17.50	17.10	18.50
		1	13	17.14	17.34	16.82	18.50
		1	24	16.86	16.84	16.50	18.50
		12	0	17.49	17.33	17.19	18.50
		12	6	17.46	17.34	17.28	18.50
		12	13	17.12	17.32	16.86	18.50
		25	0	17.62	17.32	17.00	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.91	22.81	22.52	23.50
		1	25	22.92	22.53	22.20	23.50
		1	49	22.83	22.24	22.36	23.50
		25	0	21.90	21.68	21.36	22.50
		25	13	21.81	21.39	21.24	22.50
		25	25	21.80	21.29	21.26	22.50
		50	0	21.77	21.36	21.50	22.50
	16QAM	1	0	21.79	21.85	21.45	22.50
		1	25	21.61	21.51	21.73	22.50
		1	49	21.58	21.24	21.12	22.50
		25	0	20.55	20.55	20.27	21.50
		25	13	20.17	20.55	20.05	21.50
		25	25	20.08	20.44	19.82	21.50
		50	0	20.48	20.62	20.14	21.50
	64QAM	1	0	20.65	20.95	20.31	21.50
		1	25	20.62	20.64	20.56	21.50
		1	49	20.42	20.30	19.94	21.50
		25	0	19.54	19.48	19.42	20.50
		25	13	19.27	19.53	19.23	20.50
		25	25	19.40	19.42	18.86	20.50
		50	0	19.27	19.37	19.27	20.50
	256QAM	1	0	17.24	17.52	17.28	18.50
		1	25	17.20	17.40	16.78	18.50
		1	49	16.70	16.80	16.62	18.50
		25	0	17.69	17.45	17.29	18.50
		25	13	17.62	17.42	17.26	18.50

		25	25	17.24	17.16	16.86	18.50
		50	0	17.64	17.62	17.18	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.63	22.85	22.46	23.50
		1	38	22.88	22.49	22.48	23.50
		1	74	22.85	22.48	22.46	23.50
		36	0	21.68	21.52	21.34	22.50
		36	18	21.99	21.59	21.48	22.50
		36	39	21.70	21.27	21.28	22.50
		75	0	21.97	21.38	21.50	22.50
	16QAM	1	0	21.77	21.91	21.49	22.50
		1	38	21.37	21.73	21.47	22.50
		1	74	21.42	21.40	20.88	22.50
		36	0	20.51	20.43	20.07	21.50
		36	18	20.47	20.43	20.29	21.50
		36	39	20.12	20.40	19.96	21.50
		75	0	20.44	20.60	19.98	21.50
	64QAM	1	0	20.73	20.65	20.43	21.50
		1	38	20.60	20.84	20.60	21.50
		1	74	20.54	20.20	19.98	21.50
		36	0	19.66	19.70	19.12	20.50
		36	18	19.31	19.39	19.17	20.50
		36	39	19.40	19.24	18.90	20.50
		75	0	19.43	19.29	19.11	20.50
	256QAM	1	0	17.34	17.60	17.06	18.50
		1	38	17.24	17.50	16.92	18.50
		1	74	16.96	17.08	16.62	18.50
		36	0	17.63	17.53	17.41	18.50
		36	18	17.36	17.44	17.38	18.50
		36	39	17.32	17.36	16.94	18.50
		75	0	17.74	17.58	17.02	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.71	22.71	22.30	23.50
		1	50	22.86	22.57	22.38	23.50
		1	99	22.71	22.30	22.42	23.50
		50	0	21.80	21.58	21.32	22.50
		50	25	21.85	21.51	21.34	22.50
		50	50	21.78	21.33	21.36	22.50
		100	0	21.81	21.48	21.34	22.50
	16QAM	1	0	21.75	21.77	21.49	22.50
		1	50	21.49	21.65	21.53	22.50

		1	99	21.40	21.22	21.00	22.50
		50	0	20.59	20.55	20.19	21.50
		50	25	20.29	20.47	20.21	21.50
		50	50	20.22	20.30	19.94	21.50
		100	0	20.42	20.46	20.10	21.50
	64QAM	1	0	20.67	20.75	20.49	21.50
		1	50	20.70	20.66	20.50	21.50
		1	99	20.36	20.20	19.96	21.50
		50	0	19.54	19.54	19.20	20.50
		50	25	19.39	19.45	19.09	20.50
		50	50	19.44	19.30	18.90	20.50
		100	0	19.33	19.41	19.11	20.50
	256QAM	1	0	17.34	17.50	17.12	18.50
		1	50	17.22	17.38	16.96	18.50
		1	99	16.84	16.96	16.58	18.50
		50	0	17.47	17.51	17.35	18.50
		50	25	17.46	17.42	17.20	18.50
		50	50	17.24	17.26	17.04	18.50
		100	0	17.56	17.40	17.10	18.50

LTE B2							
Receiver off--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.26	21.21	20.89	22.50
		1	2	21.47	21.16	20.82	22.50
		1	5	21.11	20.74	20.93	22.50
		3	0	21.29	21.19	20.80	22.50
		3	2	21.30	20.91	20.85	22.50
		3	3	21.41	20.89	20.86	22.50
		6	0	21.31	20.99	20.99	22.50
	16QAM	1	0	21.27	21.19	20.77	22.50
		1	2	21.37	21.27	20.95	22.50
		1	5	20.95	20.65	20.53	22.50
		3	0	21.02	20.98	20.74	22.50
		3	2	21.40	20.90	20.94	22.50
		3	3	20.89	20.69	20.69	22.50
		6	0	20.36	20.50	19.92	21.50
	64QAM	1	0	20.83	20.75	20.35	21.50
		1	2	20.81	20.77	20.29	21.50
		1	5	20.55	20.09	20.23	21.50
		3	0	20.81	20.67	20.23	21.50
		3	2	20.97	20.91	20.33	21.50

		3	3	20.43	20.15	20.23	21.50
		6	0	19.49	19.33	19.17	20.50
	256QAM	1	0	17.36	17.78	17.38	18.50
		1	2	17.41	17.33	17.01	18.50
		1	5	16.97	16.87	16.58	18.50
		3	0	17.63	17.67	17.53	18.50
		3	2	17.46	17.30	17.28	18.50
		3	3	16.77	17.33	16.75	18.50
		6	0	17.53	17.47	17.13	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.10	21.41	20.65	22.50
		1	7	21.29	21.02	21.10	22.50
		1	14	21.21	20.84	20.73	22.50
		8	0	21.39	21.03	20.60	22.50
		8	4	21.44	20.93	20.57	22.50
		8	7	21.13	20.63	21.02	22.50
		15	0	21.49	20.93	20.65	22.50
	16QAM	1	0	21.27	21.21	20.67	22.50
		1	7	21.35	21.35	20.97	22.50
		1	14	20.97	20.51	20.55	22.50
		8	0	20.64	20.50	20.34	21.50
		8	4	21.04	20.24	20.64	21.50
		8	7	20.63	20.23	19.99	21.50
		15	0	20.28	20.22	20.04	21.50
	64QAM	1	0	20.89	20.99	20.45	21.50
		1	7	20.61	20.77	20.33	21.50
		1	14	20.65	20.03	20.13	21.50
		8	0	19.31	19.77	19.01	20.50
		8	4	19.39	19.43	19.19	20.50
		8	7	19.30	19.10	19.10	20.50
		15	0	19.47	19.17	19.23	20.50
	256QAM	1	0	17.60	17.56	17.24	18.50
		1	7	17.31	17.33	17.17	18.50
		1	14	16.87	17.11	16.76	18.50
		8	0	17.71	17.57	17.39	18.50
		8	4	17.38	17.38	17.16	18.50
		8	7	17.11	17.23	16.91	18.50
		15	0	17.55	17.43	17.23	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.38	21.13	20.69	22.50
		1	13	21.47	21.22	20.92	22.50

		1	24	21.27	20.70	21.11	22.50
		12	0	21.47	21.01	20.70	22.50
		12	6	21.40	21.01	20.91	22.50
		12	13	21.39	20.79	21.02	22.50
		25	0	21.19	20.89	21.01	22.50
	16QAM	1	0	21.15	21.37	20.97	22.50
		1	13	21.41	21.11	21.19	22.50
		1	24	21.11	20.59	20.59	22.50
		12	0	20.62	20.72	20.34	21.50
		12	6	20.84	20.36	20.52	21.50
		12	13	20.41	20.27	20.05	21.50
		25	0	20.08	20.54	20.16	21.50
	64QAM	1	0	20.83	20.83	20.37	21.50
		1	13	20.61	20.81	20.39	21.50
		1	24	20.49	20.13	20.19	21.50
		12	0	19.53	19.47	18.97	20.50
		12	6	19.33	19.57	19.11	20.50
		12	13	19.34	19.30	18.96	20.50
		25	0	19.43	19.37	19.13	20.50
	256QAM	1	0	17.42	17.40	17.02	18.50
		1	13	17.39	17.23	17.13	18.50
		1	24	16.77	16.89	16.64	18.50
		12	0	17.71	17.47	17.17	18.50
		12	6	17.36	17.32	17.10	18.50
		12	13	16.83	17.35	16.83	18.50
		25	0	17.33	17.33	17.17	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.06	21.01	20.77	22.50
		1	25	21.37	21.08	21.02	22.50
		1	49	21.15	20.76	20.89	22.50
		25	0	21.15	21.29	20.80	22.50
		25	13	21.56	21.11	20.81	22.50
		25	25	21.25	20.69	21.06	22.50
		50	0	21.35	21.15	20.97	22.50
	16QAM	1	0	21.17	21.07	20.71	22.50
		1	25	21.33	21.35	21.17	22.50
		1	49	21.11	20.59	20.60	22.50
		25	0	20.64	20.56	20.40	21.50
		25	13	20.76	20.54	20.40	21.50
		25	25	20.29	20.45	20.01	21.50
		50	0	20.02	20.38	20.10	21.50
	64QAM	1	0	20.55	20.59	20.31	21.50

		1	25	20.55	20.87	20.33	21.50
		1	49	20.49	20.37	20.23	21.50
		25	0	19.45	19.39	19.09	20.50
		25	13	19.59	19.55	18.99	20.50
		25	25	19.58	19.46	19.02	20.50
		50	0	19.63	19.49	19.11	20.50
	256QAM	1	0	17.32	17.62	17.00	18.50
		1	25	17.27	17.43	16.97	18.50
		1	49	16.79	16.81	16.72	18.50
		25	0	17.47	17.71	17.49	18.50
		25	13	17.50	17.54	16.84	18.50
		25	25	17.13	17.11	16.67	18.50
		50	0	17.63	17.39	17.11	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.32	21.07	20.71	22.50
		1	38	21.19	21.08	20.86	22.50
		1	74	21.15	20.52	20.91	22.50
		36	0	21.25	20.97	20.74	22.50
		36	18	21.20	20.99	20.67	22.50
		36	39	21.25	20.81	20.84	22.50
		75	0	21.29	20.99	20.81	22.50
	16QAM	1	0	21.21	21.29	20.65	22.50
		1	38	21.19	21.23	20.85	22.50
		1	74	20.97	20.71	20.51	22.50
		36	0	20.46	20.56	20.34	21.50
		36	18	20.84	20.54	20.32	21.50
		36	39	20.21	20.37	19.93	21.50
		75	0	20.08	20.28	20.04	21.50
	64QAM	1	0	20.53	20.61	20.41	21.50
		1	38	20.67	20.51	20.43	21.50
		1	74	20.53	20.05	19.97	21.50
		36	0	19.49	19.59	19.01	20.50
		36	18	19.37	19.47	18.93	20.50
		36	39	19.24	19.08	19.02	20.50
		75	0	19.45	19.51	19.31	20.50
	256QAM	1	0	17.50	17.62	17.20	18.50
		1	38	17.35	17.53	17.17	18.50
		1	74	17.01	17.09	16.66	18.50
		36	0	17.49	17.51	17.51	18.50
		36	18	17.64	17.58	17.06	18.50
		36	39	16.99	17.13	16.67	18.50
		75	0	17.55	17.33	17.13	18.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.22	21.19	20.77	22.50
		1	50	21.37	21.08	20.88	22.50
		1	99	21.21	20.64	20.93	22.50
		50	0	21.31	21.07	20.82	22.50
		50	25	21.34	20.99	20.83	22.50
		50	50	21.29	20.81	20.84	22.50
		100	0	21.31	20.95	20.87	22.50
	16QAM	1	0	21.21	21.25	20.85	22.50
		1	50	21.35	21.13	21.01	22.50
		1	99	20.99	20.71	20.55	22.50
		50	0	20.52	20.54	20.28	21.50
		50	25	20.82	20.46	20.36	21.50
		50	50	20.39	20.29	20.11	21.50
		100	0	20.20	20.44	19.98	21.50
	64QAM	1	0	20.71	20.75	20.33	21.50
		1	50	20.69	20.65	20.37	21.50
		1	99	20.55	20.19	20.11	21.50
		50	0	19.43	19.53	19.09	20.50
		50	25	19.41	19.45	19.13	20.50
		50	50	19.42	19.28	19.08	20.50
		100	0	19.43	19.41	19.23	20.50
	256QAM	1	0	17.46	17.48	17.16	18.50
		1	50	17.39	17.37	17.07	18.50
		1	99	16.93	16.95	16.70	18.50
		50	0	17.61	17.51	17.37	18.50
		50	25	17.46	17.42	17.00	18.50
		50	50	17.01	17.25	16.77	18.50
		100	0	17.49	17.39	17.17	18.50

LTE B2							
Hotspot on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	19.03	19.30	19.06	20.50
		1	2	19.17	18.79	18.74	20.50
		1	5	18.92	18.93	19.05	20.50
		3	0	19.33	19.07	18.94	20.50
		3	2	19.62	18.73	18.71	20.50
		3	3	19.37	18.92	18.88	20.50
		6	0	19.44	18.79	18.99	20.50
	16QAM	1	0	19.26	19.06	19.44	20.50

		1	2	19.21	19.27	19.29	20.50
		1	5	18.55	18.70	18.74	20.50
		3	0	18.68	18.96	19.32	20.50
		3	2	18.72	18.74	18.70	20.50
		3	3	18.87	18.73	19.17	20.50
		6	0	19.01	18.75	18.95	20.50
	64QAM	1	0	19.37	18.97	19.53	20.50
		1	2	19.13	19.33	18.99	20.50
		1	5	18.64	18.82	19.10	20.50
		3	0	18.71	19.13	19.09	20.50
		3	2	19.17	18.79	18.83	20.50
		3	3	19.01	19.07	18.75	20.50
		6	0	18.86	19.26	18.76	20.50
	256QAM	1	0	17.15	17.59	17.19	18.50
		1	2	17.56	17.10	17.36	18.50
		1	5	17.18	16.68	16.88	18.50
		3	0	17.31	17.41	17.41	18.50
		3	2	17.72	17.32	17.62	18.50
		3	3	17.16	17.38	17.14	18.50
		6	0	17.69	17.43	17.41	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	19.25	19.30	18.80	20.50
		1	7	19.51	19.01	18.98	20.50
		1	14	19.24	18.63	19.01	20.50
		8	0	19.29	19.23	18.90	20.50
		8	4	19.34	18.95	18.77	20.50
		8	7	19.27	18.84	18.92	20.50
		15	0	19.24	19.01	18.87	20.50
	16QAM	1	0	19.24	19.38	19.16	20.50
		1	7	19.31	19.17	19.47	20.50
		1	14	18.66	18.84	18.88	20.50
		8	0	18.90	19.06	19.14	20.50
		8	4	19.00	18.86	19.02	20.50
		8	7	18.97	18.77	19.15	20.50
		15	0	18.97	18.89	19.15	20.50
	64QAM	1	0	19.13	19.29	19.47	20.50
		1	7	18.91	19.11	19.17	20.50
		1	14	18.92	18.70	19.10	20.50
		8	0	19.11	19.11	19.01	20.50
		8	4	19.11	19.13	18.93	20.50
		8	7	18.83	18.75	18.81	20.50
		15	0	19.06	19.04	19.10	20.50

		1	0	17.43	17.49	17.35	18.50
		1	7	17.38	17.28	17.60	18.50
		1	14	17.18	16.86	17.14	18.50
	256QAM	8	0	17.55	17.57	17.51	18.50
		8	4	17.36	17.58	17.38	18.50
		8	7	17.24	17.22	17.30	18.50
		15	0	17.67	17.45	17.43	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	19.03	19.12	18.74	20.50
		1	13	19.19	18.91	18.76	20.50
		1	24	19.24	18.75	19.05	20.50
		12	0	19.27	18.87	18.88	20.50
		12	6	19.28	18.81	18.77	20.50
		12	13	19.21	18.64	18.70	20.50
		25	0	19.22	18.85	18.63	20.50
	16QAM	1	0	19.06	19.26	19.06	20.50
		1	13	19.39	19.05	19.41	20.50
		1	24	18.62	18.62	18.60	20.50
		12	0	18.90	18.98	19.10	20.50
		12	6	18.68	18.92	19.02	20.50
		12	13	18.97	18.89	18.97	20.50
		25	0	19.01	18.79	19.13	20.50
	64QAM	1	0	19.09	19.25	19.19	20.50
		1	13	18.97	19.21	19.05	20.50
		1	24	18.72	18.62	18.96	20.50
		12	0	19.05	18.93	18.87	20.50
		12	6	18.75	18.79	18.67	20.50
		12	13	18.65	18.59	18.73	20.50
		25	0	18.84	18.80	18.84	20.50
	256QAM	1	0	17.51	17.51	17.23	18.50
		1	13	17.46	17.48	17.56	18.50
		1	24	17.02	17.00	16.92	18.50
		12	0	17.37	17.43	17.57	18.50
		12	6	17.28	17.22	17.26	18.50
		12	13	17.18	17.26	17.26	18.50
		25	0	17.49	17.35	17.39	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	19.17	19.00	19.00	20.50
		1	25	19.45	19.01	18.84	20.50
		1	49	19.36	18.85	19.03	20.50
		25	0	19.25	19.21	19.00	20.50

		25	13	19.22	18.89	18.79	20.50
		25	25	19.19	18.72	19.02	20.50
		50	0	19.22	19.09	18.91	20.50
	16QAM	1	0	19.40	19.08	19.26	20.50
		1	25	19.51	19.01	19.23	20.50
		1	49	18.54	18.66	18.66	20.50
		25	0	19.12	19.08	18.92	20.50
		25	13	19.04	18.98	19.16	20.50
		25	25	18.89	18.87	19.27	20.50
		50	0	18.83	18.99	19.07	20.50
	64QAM	1	0	19.21	19.25	19.41	20.50
		1	25	18.99	18.97	19.03	20.50
		1	49	18.60	18.60	18.82	20.50
		25	0	19.05	18.93	18.85	20.50
		25	13	18.91	18.99	18.97	20.50
		25	25	19.07	18.87	18.77	20.50
		50	0	19.22	18.82	18.90	20.50
	256QAM	1	0	17.47	17.55	17.55	18.50
		1	25	17.36	17.32	17.42	18.50
		1	49	17.04	16.96	17.24	18.50
		25	0	17.45	17.49	17.53	18.50
		25	13	17.46	17.48	17.62	18.50
		25	25	17.20	17.48	17.40	18.50
		50	0	17.61	17.27	17.61	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	19.25	19.36	18.86	20.50
		1	38	19.45	19.07	18.94	20.50
		1	74	19.38	18.63	18.95	20.50
		36	0	19.23	19.07	18.96	20.50
		36	18	19.46	18.95	18.99	20.50
		36	39	19.17	18.72	18.88	20.50
		75	0	19.30	19.05	18.71	20.50
	16QAM	1	0	19.20	19.40	19.34	20.50
		1	38	19.45	19.15	19.37	20.50
		1	74	18.56	18.62	18.84	20.50
		36	0	18.90	19.00	19.12	20.50
		36	18	18.94	18.84	18.88	20.50
		36	39	18.91	18.97	19.21	20.50
		75	0	19.11	18.85	19.03	20.50
	64QAM	1	0	19.27	19.37	19.49	20.50
		1	38	19.05	19.03	19.15	20.50
		1	74	18.82	18.64	18.86	20.50

		36	0	18.99	18.97	19.09	20.50
		36	18	19.01	18.95	18.81	20.50
		36	39	18.93	18.79	18.89	20.50
		75	0	18.98	18.80	19.02	20.50
	256QAM	1	0	17.31	17.65	17.53	18.50
		1	38	17.36	17.32	17.48	18.50
		1	74	17.08	17.14	17.00	18.50
		36	0	17.61	17.61	17.55	18.50
		36	18	17.48	17.40	17.44	18.50
		36	39	17.40	17.34	17.34	18.50
		75	0	17.73	17.41	17.65	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	19.23	19.18	18.82	20.50
		1	50	19.39	19.09	18.90	20.50
		1	99	19.24	18.65	18.95	20.50
		50	0	19.33	19.07	18.82	20.50
		50	25	19.55	18.99	18.85	20.50
		50	50	19.29	18.82	18.86	20.50
		100	0	19.32	18.95	18.83	20.50
	16QAM	1	0	19.20	19.24	19.26	20.50
		1	50	19.29	19.13	19.35	20.50
		1	99	18.58	18.70	18.74	20.50
		50	0	18.96	19.04	19.04	20.50
		50	25	18.88	18.96	18.94	20.50
		50	50	18.89	18.79	19.05	20.50
		100	0	18.97	18.93	19.05	20.50
	64QAM	1	0	19.17	19.25	19.31	20.50
		1	50	19.01	19.13	19.07	20.50
		1	99	18.78	18.70	18.94	20.50
		50	0	18.95	19.05	18.95	20.50
		50	25	18.95	18.97	18.85	20.50
		50	50	18.85	18.79	18.75	20.50
		100	0	19.02	18.92	18.94	20.50
	256QAM	1	0	17.41	17.51	17.39	18.50
		1	50	17.42	17.38	17.56	18.50
		1	99	17.04	16.96	17.02	18.50
		50	0	17.51	17.51	17.49	18.50
		50	25	17.46	17.42	17.40	18.50
		50	50	17.32	17.26	17.38	18.50
		100	0	17.55	17.41	17.47	18.50

LTE B5							
Receiver on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	21.19	21.30	21.10	22.00
		1	2	20.96	21.12	21.12	22.00
		1	5	21.31	21.28	21.25	22.00
		3	0	21.13	21.33	21.09	22.00
		3	2	21.09	21.29	21.19	22.00
		3	3	21.23	21.23	21.19	22.00
		6	0	21.11	21.22	21.30	22.00
	16QAM	1	0	21.42	21.48	21.42	22.00
		1	2	21.40	21.48	21.41	22.00
		1	5	21.60	21.45	21.42	22.00
		3	0	21.22	21.14	21.07	22.00
		3	2	21.12	21.08	21.26	22.00
		3	3	21.29	21.12	21.13	22.00
		6	0	21.32	21.21	21.05	22.00
	64QAM	1	0	21.38	21.51	21.43	22.00
		1	2	21.28	21.46	21.38	22.00
		1	5	21.49	21.29	21.16	22.00
		3	0	21.29	21.11	21.07	22.00
		3	2	21.04	21.04	21.09	22.00
		3	3	21.11	21.13	21.21	22.00
		6	0	21.29	21.22	21.12	22.00
	256QAM	1	0	21.18	21.03	21.27	22.00
		1	2	20.90	21.20	20.84	22.00
		1	5	21.13	21.51	20.98	22.00
		3	0	20.83	20.49	20.83	22.00
		3	2	20.72	20.68	20.87	22.00
		3	3	20.73	20.75	20.55	22.00
		6	0	20.31	20.22	20.10	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	21.01	21.06	21.18	22.00
		1	7	21.34	20.98	21.12	22.00
		1	14	21.55	20.96	21.09	22.00
		8	0	21.13	20.87	20.97	22.00
		8	4	21.15	21.11	21.31	22.00
		8	7	21.19	21.29	21.31	22.00
		15	0	21.03	21.30	21.08	22.00
	16QAM	1	0	21.16	21.34	21.50	22.00

		1	7	21.34	21.48	21.29	22.00
		1	14	21.28	21.15	21.48	22.00
		8	0	21.02	21.16	21.37	22.00
		8	4	20.94	20.98	21.02	22.00
		8	7	21.27	21.24	21.11	22.00
		15	0	21.04	20.99	21.01	22.00
	64QAM	1	0	21.20	21.45	21.27	22.00
		1	7	21.34	21.52	21.48	22.00
		1	14	21.17	21.31	21.26	22.00
		8	0	21.35	21.15	21.07	22.00
		8	4	21.30	21.14	21.31	22.00
		8	7	21.53	21.21	20.81	22.00
		15	0	20.97	20.94	21.46	22.00
	256QAM	1	0	21.28	21.35	20.93	22.00
		1	7	21.10	21.16	20.84	22.00
		1	14	21.27	21.39	21.04	22.00
		8	0	20.01	19.97	19.91	21.00
		8	4	20.08	19.92	20.17	21.00
		8	7	19.69	20.13	19.75	21.00
		15	0	20.15	19.98	20.22	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	20.89	21.20	21.16	22.00
		1	13	21.00	21.00	21.06	22.00
		1	24	21.07	21.18	21.27	22.00
		12	0	21.17	21.13	21.07	22.00
		12	6	21.39	21.39	21.03	22.00
		12	13	21.07	21.09	21.33	22.00
		25	0	21.19	21.20	21.26	22.00
	16QAM	1	0	21.30	21.42	21.32	22.00
		1	13	21.46	21.24	21.13	22.00
		1	24	21.60	21.29	21.26	22.00
		12	0	21.36	21.16	21.37	22.00
		12	6	21.00	20.98	21.10	22.00
		12	13	21.35	21.20	21.35	22.00
		25	0	21.02	21.07	21.19	22.00
	64QAM	1	0	21.44	21.37	21.43	22.00
		1	13	21.40	21.12	21.48	22.00
		1	24	21.37	21.33	21.16	22.00
		12	0	21.23	21.17	21.19	22.00
		12	6	21.10	21.02	21.09	22.00
		12	13	21.37	21.21	21.31	22.00
		25	0	20.99	21.24	21.00	22.00

		1	0	21.20	21.27	21.11	22.00
		1	13	20.96	21.06	21.16	22.00
		1	24	20.95	21.45	21.24	22.00
	256QAM	12	0	20.07	19.69	20.09	21.00
		12	6	20.10	19.98	20.03	21.00
		12	13	19.91	19.87	19.83	21.00
		25	0	20.27	20.06	19.96	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	21.01	21.26	21.26	22.00
		1	25	21.22	21.28	21.02	22.00
		1	49	21.41	21.10	21.23	22.00
		25	0	21.17	21.10	21.29	22.00
		25	13	21.16	21.27	21.15	22.00
		25	25	21.33	21.11	21.09	22.00
		50	0	21.35	21.24	21.20	22.00
	16QAM	1	0	21.18	21.40	21.38	22.00
		1	25	21.28	21.34	21.37	22.00
		1	49	21.38	21.31	21.30	22.00
		25	0	21.26	21.18	21.23	22.00
		25	13	21.12	21.08	21.18	22.00
		25	25	21.35	21.38	21.05	22.00
		50	0	21.14	21.33	21.15	22.00
	64QAM	1	0	21.16	21.49	21.25	22.00
		1	25	21.48	21.26	21.18	22.00
		1	49	21.29	21.43	21.38	22.00
		25	0	21.25	21.03	21.25	22.00
		25	13	21.18	21.02	21.01	22.00
		25	25	21.35	21.05	21.29	22.00
		50	0	21.27	21.04	21.12	22.00
	256QAM	1	0	21.12	21.17	21.07	22.00
		1	25	21.02	21.10	21.00	22.00
		1	49	21.07	21.35	21.06	22.00
		25	0	20.09	19.79	20.03	21.00
		25	13	20.02	19.94	20.01	21.00
		25	25	19.87	19.97	19.85	21.00
		50	0	20.09	20.04	20.04	21.00

LTE B7							
Receiver on--Main Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	17.12	16.61	16.28	17.50
		1	13	17.07	16.52	16.34	17.50
		1	24	17.02	16.43	16.42	17.50
		12	0	17.22	16.61	16.30	17.50
		12	6	17.13	16.52	16.34	17.50
		12	13	17.07	16.50	16.35	17.50
		25	0	17.18	16.57	16.39	17.50
	16QAM	1	0	17.44	17.05	16.55	17.50
		1	13	17.42	16.88	16.82	17.50
		1	24	17.39	16.91	16.95	17.50
		12	0	17.23	16.61	16.36	17.50
		12	6	17.14	16.55	16.35	17.50
		12	13	17.10	16.50	16.41	17.50
		25	0	17.14	16.53	16.35	17.50
	64QAM	1	0	17.32	16.79	16.54	17.50
		1	13	17.32	16.73	16.52	17.50
		1	24	17.19	16.78	16.73	17.50
		12	0	17.26	16.67	16.37	17.50
		12	6	17.14	16.60	16.41	17.50
		12	13	17.10	16.55	16.45	17.50
		25	0	17.12	16.51	16.38	17.50
	256QAM	1	0	16.73	17.08	17.03	17.50
		1	13	17.30	17.23	17.12	17.50
		1	24	17.40	17.12	17.32	17.50
		12	0	17.03	17.39	16.80	17.50
		12	6	17.12	17.13	16.91	17.50
		12	13	17.32	17.03	17.10	17.50
		25	0	17.24	17.13	16.94	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	15.97	17.32	16.83	17.50
		1	25	16.16	17.17	16.82	17.50
		1	49	16.59	16.99	17.10	17.50
		25	0	15.99	17.24	16.81	17.50
		25	13	16.16	17.10	16.89	17.50
		25	25	16.38	17.01	16.98	17.50
		50	0	16.18	17.15	16.90	17.50
	16QAM	1	0	16.43	17.32	17.37	17.50

		1	25	16.46	17.10	17.19	17.50
		1	49	16.96	17.33	17.20	17.50
		25	0	15.96	17.21	16.78	17.50
		25	13	16.12	17.07	16.85	17.50
		25	25	16.35	16.97	16.94	17.50
		50	0	16.16	17.12	16.89	17.50
	64QAM	1	0	16.34	17.00	17.02	17.50
		1	25	16.34	17.36	16.97	17.50
		1	49	16.84	17.26	17.15	17.50
		25	0	15.97	17.22	16.80	17.50
		25	13	16.14	17.10	16.85	17.50
		25	25	16.35	17.02	16.96	17.50
		50	0	16.17	17.13	16.87	17.50
	256QAM	1	0	16.73	16.86	16.99	17.50
		1	25	17.32	17.11	17.10	17.50
		1	49	17.38	17.10	17.30	17.50
		25	0	16.89	17.11	16.60	17.50
		25	13	17.14	17.07	16.65	17.50
		25	25	17.26	17.11	16.98	17.50
		50	0	17.02	16.95	16.82	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	16.58	17.38	16.79	17.50
		1	38	17.01	17.21	16.85	17.50
		1	74	17.11	16.98	17.08	17.50
		36	0	16.67	17.20	16.74	17.50
		36	18	16.94	17.13	16.83	17.50
		36	39	17.21	16.96	16.95	17.50
		75	0	16.95	17.14	16.88	17.50
	16QAM	1	0	16.82	16.86	17.07	17.50
		1	38	16.90	17.10	17.14	17.50
		1	74	16.88	17.30	16.85	17.50
		36	0	16.71	17.21	16.72	17.50
		36	18	16.92	17.12	16.83	17.50
		36	39	17.23	16.96	16.96	17.50
		75	0	16.94	17.15	16.85	17.50
	64QAM	1	0	16.61	16.70	17.03	17.50
		1	38	17.24	17.38	16.98	17.50
		1	74	16.90	17.21	17.35	17.50
		36	0	16.72	17.23	16.78	17.50
		36	18	16.97	17.17	16.83	17.50
		36	39	17.23	17.02	16.99	17.50
		75	0	16.90	17.11	16.83	17.50

	256QAM	1	0	16.71	16.92	16.89	17.50
		1	38	17.24	17.15	17.16	17.50
		1	74	16.89	16.90	17.10	17.50
		36	0	17.05	17.19	16.88	17.50
		36	18	17.00	17.37	16.81	17.50
		36	39	17.02	17.11	16.76	17.50
		75	0	17.08	17.07	16.98	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	16.57	17.20	16.70	17.50
		1	50	17.22	17.21	16.83	17.50
		1	99	17.26	16.90	17.23	17.50
		50	0	16.83	17.33	16.76	17.50
		50	25	17.15	17.21	16.85	17.50
		50	50	17.20	17.02	16.98	17.50
		100	0	17.12	17.17	16.89	17.50
	16QAM	1	0	17.04	17.00	16.99	17.50
		1	50	16.86	16.90	17.38	17.50
		1	99	16.95	17.02	17.11	17.50
		50	0	16.82	17.27	16.74	17.50
		50	25	17.15	17.15	16.83	17.50
		50	50	17.40	17.01	16.97	17.50
		100	0	17.10	17.14	16.86	17.50
	64QAM	1	0	16.83	17.05	16.99	17.50
		1	50	17.36	17.00	17.02	17.50
		1	99	16.77	16.96	17.26	17.50
		50	0	16.81	17.29	16.72	17.50
		50	25	17.12	17.17	16.83	17.50
		50	50	17.40	17.01	16.94	17.50
		100	0	17.08	17.13	16.86	17.50
	256QAM	1	0	16.85	17.22	17.01	17.50
		1	50	17.40	17.21	17.20	17.50
		1	99	16.78	17.36	17.18	17.50
		50	0	16.89	17.37	16.74	17.50
		50	25	17.10	17.05	16.73	17.50
		50	50	16.95	17.09	16.82	17.50
		100	0	17.12	17.17	16.78	17.50

LTE B7							
Receiver off--Main Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	18.52	19.31	18.74	19.50
		1	13	18.52	18.90	18.89	19.50
		1	24	18.97	18.82	19.29	19.50
		12	0	18.67	18.98	18.75	19.50
		12	6	18.53	19.18	18.79	19.50
		12	13	19.06	18.89	19.03	19.50
		25	0	18.79	19.08	18.80	19.50
	16QAM	1	0	18.96	19.46	19.09	19.50
		1	13	19.06	19.23	19.11	19.50
		1	24	19.20	19.33	18.99	19.50
		12	0	18.73	19.23	18.82	19.50
		12	6	18.79	19.15	18.77	19.50
		12	13	18.82	19.06	18.88	19.50
		25	0	18.90	19.05	18.97	19.50
	64QAM	1	0	18.63	18.80	18.80	19.50
		1	13	18.77	19.27	19.07	19.50
		1	24	19.19	18.98	19.04	19.50
		12	0	18.74	19.00	18.92	19.50
		12	6	18.74	19.16	19.04	19.50
		12	13	19.01	18.88	19.00	19.50
		25	0	18.81	18.87	18.85	19.50
	256QAM	1	0	18.52	18.77	18.81	19.50
		1	13	19.32	19.06	18.96	19.50
		1	24	19.11	19.22	19.18	19.50
		12	0	18.93	19.40	18.77	19.50
		12	6	19.15	19.02	18.64	19.50
		12	13	19.13	19.02	19.00	19.50
		25	0	18.98	19.03	18.89	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	18.54	19.19	18.82	19.50
		1	25	18.62	19.06	18.83	19.50
		1	49	19.11	18.92	19.07	19.50
		25	0	18.57	19.12	18.79	19.50
		25	13	18.69	19.02	18.83	19.50
		25	25	18.90	18.95	18.97	19.50
		50	0	18.71	19.06	18.88	19.50
	16QAM	1	0	18.90	19.20	19.19	19.50

		1	25	19.08	19.33	19.13	19.50
		1	49	19.06	19.23	19.30	19.50
		25	0	18.55	19.11	18.76	19.50
		25	13	18.69	19.01	18.81	19.50
		25	25	18.88	18.90	18.92	19.50
		50	0	18.72	19.05	18.85	19.50
	64QAM	1	0	18.65	19.35	18.94	19.50
		1	25	18.77	19.29	19.01	19.50
		1	49	19.17	19.08	19.22	19.50
		25	0	18.58	19.10	18.76	19.50
		25	13	18.70	19.02	18.82	19.50
		25	25	18.89	18.94	18.94	19.50
		50	0	18.67	19.05	18.83	19.50
	256QAM	1	0	18.46	19.36	18.77	19.50
		1	25	19.26	19.25	19.00	19.50
		1	49	19.06	19.04	19.24	19.50
		25	0	18.87	19.34	18.91	19.50
		25	13	18.99	18.98	18.76	19.50
		25	25	19.13	18.96	18.66	19.50
		50	0	18.82	18.89	18.61	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	18.54	19.21	18.70	19.50
		1	38	18.94	19.04	18.78	19.50
		1	74	19.29	18.87	19.04	19.50
		36	0	18.65	19.10	18.72	19.50
		36	18	18.89	19.05	18.82	19.50
		36	39	19.11	18.89	18.95	19.50
		75	0	18.90	19.03	18.83	19.50
	16QAM	1	0	18.77	19.47	19.04	19.50
		1	38	19.33	19.42	19.14	19.50
		1	74	18.90	19.24	19.38	19.50
		36	0	18.67	19.14	18.72	19.50
		36	18	18.86	19.03	18.80	19.50
		36	39	19.10	18.89	18.94	19.50
		75	0	18.89	19.04	18.82	19.50
	64QAM	1	0	18.76	19.44	18.82	19.50
		1	38	19.17	19.24	18.90	19.50
		1	74	19.05	19.17	19.17	19.50
		36	0	18.69	19.15	18.74	19.50
		36	18	18.92	19.07	18.81	19.50
		36	39	19.14	18.92	18.96	19.50
		75	0	18.90	19.03	18.81	19.50

		1	0	18.62	19.03	18.95	19.50
		1	38	19.28	19.39	18.98	19.50
		1	74	19.01	19.20	19.22	19.50
	256QAM	36	0	18.95	19.12	18.79	19.50
		36	18	19.05	18.88	18.68	19.50
		36	39	19.19	18.98	18.94	19.50
		75	0	18.78	18.83	18.79	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	18.52	19.26	18.67	19.50
		1	50	19.14	19.21	18.77	19.50
		1	99	19.31	18.90	19.12	19.50
		50	0	18.79	19.22	18.73	19.50
		50	25	19.07	19.13	18.80	19.50
		50	50	19.30	18.95	18.96	19.50
		100	0	19.05	19.08	18.83	19.50
	16QAM	1	0	18.83	19.00	18.95	19.50
		1	50	19.42	19.10	19.23	19.50
		1	99	19.11	19.06	18.92	19.50
		50	0	18.74	19.22	18.69	19.50
		50	25	19.06	19.11	18.81	19.50
		50	50	19.27	18.94	18.95	19.50
		100	0	19.02	19.04	18.83	19.50
	64QAM	1	0	18.74	19.06	18.89	19.50
		1	50	19.28	19.45	18.96	19.50
		1	99	19.11	19.12	19.24	19.50
		50	0	18.77	19.22	18.71	19.50
		50	25	19.07	19.08	18.80	19.50
		50	50	19.27	18.92	18.94	19.50
		100	0	19.02	19.05	18.83	19.50
	256QAM	1	0	18.70	18.86	18.79	19.50
		1	50	19.34	19.06	18.98	19.50
		1	99	19.11	19.28	19.26	19.50
		50	0	18.95	19.30	18.97	19.50
		50	25	19.35	18.92	18.58	19.50
		50	50	19.27	19.08	18.92	19.50
		100	0	19.04	18.93	18.77	19.50

LTE B7							
Hotspot on--Main Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	17.28	17.95	17.55	18.50
		1	13	17.51	17.85	17.54	18.50
		1	24	17.69	17.80	17.67	18.50
		12	0	17.90	17.96	17.55	18.50
		12	6	17.88	17.86	17.57	18.50
		12	13	17.60	17.84	17.61	18.50
		25	0	17.54	17.94	17.64	18.50
	16QAM	1	0	17.69	18.32	17.89	18.50
		1	13	17.80	18.30	17.93	18.50
		1	24	18.07	18.19	18.01	18.50
		12	0	17.42	18.01	17.57	18.50
		12	6	17.52	17.87	17.57	18.50
		12	13	17.62	17.84	17.64	18.50
		25	0	17.50	17.89	17.57	18.50
	64QAM	1	0	17.55	18.22	17.72	18.50
		1	13	17.75	18.10	17.72	18.50
		1	24	17.95	18.05	18.00	18.50
		12	0	17.44	18.00	17.57	18.50
		12	6	17.55	17.94	17.62	18.50
		12	13	17.63	17.87	17.68	18.50
		25	0	17.52	17.91	17.61	18.50
	256QAM	1	0	17.53	18.35	17.50	18.50
		1	13	18.16	17.96	17.66	18.50
		1	24	17.76	17.79	17.98	18.50
		12	0	17.79	18.00	17.47	18.50
		12	6	18.06	17.79	17.33	18.50
		12	13	18.09	17.83	17.46	18.50
		25	0	18.02	17.80	17.57	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	17.29	18.07	17.45	18.50
		1	25	17.72	17.89	17.55	18.50
		1	49	17.97	17.72	17.70	18.50
		25	0	17.44	17.97	17.46	18.50
		25	13	17.68	17.87	17.53	18.50
		25	25	17.82	17.78	17.63	18.50
		50	0	17.66	17.89	17.55	18.50
	16QAM	1	0	17.66	18.42	17.84	18.50

		1	25	18.12	18.35	17.96	18.50
		1	49	18.32	18.10	18.11	18.50
		25	0	17.42	17.98	17.43	18.50
		25	13	17.64	17.82	17.51	18.50
		25	25	17.80	17.77	17.62	18.50
		50	0	17.64	17.87	17.54	18.50
	64QAM	1	0	17.47	18.37	17.57	18.50
		1	25	17.88	18.11	17.75	18.50
		1	49	18.21	17.97	17.82	18.50
		25	0	17.44	17.97	17.43	18.50
		25	13	17.64	17.87	17.48	18.50
		25	25	17.87	17.78	17.62	18.50
		50	0	17.63	17.87	17.53	18.50
	256QAM	1	0	17.65	18.37	17.58	18.50
		1	25	18.42	18.04	17.92	18.50
		1	49	17.88	17.81	17.98	18.50
		25	0	17.61	18.00	17.47	18.50
		25	13	18.06	17.93	17.49	18.50
		25	25	18.17	17.79	17.60	18.50
		50	0	18.12	17.80	17.41	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	17.35	18.12	17.30	18.50
		1	38	17.89	17.94	17.54	18.50
		1	74	18.32	17.63	17.73	18.50
		36	0	17.59	18.01	17.37	18.50
		36	18	17.86	17.91	17.51	18.50
		36	39	18.07	17.71	17.60	18.50
		75	0	17.84	17.91	17.53	18.50
	16QAM	1	0	17.72	18.50	17.73	18.50
		1	38	18.25	18.32	17.89	18.50
		1	74	18.06	18.11	18.14	18.50
		36	0	17.61	18.01	17.36	18.50
		36	18	17.87	17.91	17.50	18.50
		36	39	18.09	17.75	17.61	18.50
		75	0	17.87	17.92	17.54	18.50
	64QAM	1	0	17.60	18.01	17.57	18.50
		1	38	18.23	18.26	17.76	18.50
		1	74	18.22	17.92	17.91	18.50
		36	0	17.62	18.04	17.39	18.50
		36	18	17.87	17.93	17.51	18.50
		36	39	18.11	17.77	17.64	18.50
		75	0	17.85	17.88	17.51	18.50

	256QAM	1	0	17.77	18.06	17.70	18.50
		1	38	18.09	17.98	17.72	18.50
		1	74	17.88	18.03	18.06	18.50
		36	0	17.75	18.38	17.50	18.50
		36	18	17.98	17.75	17.65	18.50
		36	39	18.41	17.97	17.76	18.50
		75	0	17.98	17.92	17.71	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	17.32	18.10	17.30	18.50
		1	50	18.02	18.00	17.51	18.50
		1	99	18.34	17.57	17.82	18.50
		50	0	17.72	18.13	17.37	18.50
		50	25	18.05	17.97	17.52	18.50
		50	50	18.28	17.76	17.64	18.50
		100	0	17.98	17.92	17.51	18.50
	16QAM	1	0	17.69	18.45	17.62	18.50
		1	50	18.02	17.95	17.97	18.50
		1	99	17.90	17.89	18.17	18.50
		50	0	17.67	18.10	17.36	18.50
		50	25	18.00	17.96	17.48	18.50
		50	50	18.25	17.73	17.63	18.50
		100	0	17.98	17.89	17.46	18.50
	64QAM	1	0	17.55	18.39	17.48	18.50
		1	50	18.30	18.14	17.80	18.50
		1	99	17.90	17.71	17.88	18.50
		50	0	17.69	18.10	17.37	18.50
		50	25	18.02	17.95	17.47	18.50
		50	50	18.27	17.73	17.64	18.50
		100	0	17.98	17.88	17.47	18.50
	256QAM	1	0	17.67	17.90	17.52	18.50
		1	50	18.03	17.82	17.72	18.50
		1	99	18.00	17.85	17.94	18.50
		50	0	17.77	18.22	17.62	18.50
		50	25	18.10	17.87	17.51	18.50
		50	50	18.35	17.83	17.76	18.50
		100	0	17.92	17.80	17.55	18.50

LTE B13							
Receiver on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	21.13	20.79	21.05	22.00
		1	13	20.93	20.87	21.09	22.00
		1	24	21.01	21.31	21.05	22.00
		12	0	21.30	20.98	21.08	22.00
		12	6	21.00	21.24	21.10	22.00
		12	13	20.88	21.00	20.96	22.00
		25	0	21.05	21.39	21.11	22.00
	16QAM	1	0	21.25	21.11	21.39	22.00
		1	13	21.13	21.25	21.15	22.00
		1	24	21.00	21.34	21.18	22.00
		12	0	21.25	21.13	21.17	22.00
		12	6	21.21	20.93	21.13	22.00
		12	13	20.99	21.23	21.19	22.00
		25	0	20.80	21.18	21.10	22.00
	64QAM	1	0	21.20	21.30	21.20	22.00
		1	13	21.03	21.13	21.27	22.00
		1	24	21.16	21.30	21.30	22.00
		12	0	21.18	21.06	20.96	22.00
		12	6	20.91	21.17	21.09	22.00
		12	13	21.34	21.10	20.98	22.00
		25	0	21.25	21.25	21.15	22.00
	256QAM	1	0	21.18	21.22	20.94	22.00
		1	13	21.03	21.07	20.91	22.00
		1	24	21.16	21.32	21.28	22.00
		12	0	19.70	19.56	19.64	21.00
		12	6	19.81	19.97	19.99	21.00
		12	13	19.72	19.78	19.72	21.00
		25	0	20.03	19.87	20.03	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	21.01	/	22.00
		1	25	/	20.91	/	22.00
		1	49	/	21.03	/	22.00
		25	0	/	21.10	/	22.00
		25	13	/	21.20	/	22.00
		25	25	/	21.22	/	22.00
		50	0	/	21.03	/	22.00
	16QAM	1	0	/	21.33	/	22.00

		1	25	/	21.13	/	22.00
		1	49	/	21.46	/	22.00
		25	0	/	20.99	/	22.00
		25	13	/	21.05	/	22.00
		25	25	/	21.05	/	22.00
		50	0	/	21.36	/	22.00
	64QAM	1	0	/	21.50	/	22.00
		1	25	/	21.17	/	22.00
		1	49	/	21.20	/	22.00
		25	0	/	21.18	/	22.00
		25	13	/	20.95	/	22.00
		25	25	/	21.24	/	22.00
		50	0	/	20.85	/	22.00
	256QAM	1	0	/	20.98	/	22.00
		1	25	/	21.11	/	22.00
		1	49	/	21.38	/	22.00
		25	0	/	19.86	/	21.00
		25	13	/	19.77	/	21.00
		25	25	/	20.02	/	21.00
		50	0	/	20.03	/	21.00

LTE B66							
Normal Power&Receiver on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	22.62	22.68	23.03	23.50
		1	2	22.72	23.03	22.84	23.50
		1	5	22.56	22.78	23.26	23.50
		3	0	22.34	22.74	22.93	23.50
		3	2	22.44	22.49	22.72	23.50
		3	3	22.37	22.93	22.84	23.50
		6	0	21.57	21.99	22.16	22.50
	16QAM	1	0	21.55	21.47	21.69	22.50
		1	2	21.90	21.76	21.94	22.50
		1	5	22.08	22.00	21.98	22.50
		3	0	21.56	21.66	21.52	22.50
		3	2	21.95	21.83	21.61	22.50
		3	3	21.66	21.72	21.92	22.50
		6	0	20.63	20.61	21.09	21.50
	64QAM	1	0	20.81	20.67	20.61	21.50
		1	2	20.79	21.15	21.21	21.50
		1	5	20.93	21.17	21.19	21.50

		3	0	20.49	20.63	20.69	21.50
		3	2	20.27	20.69	20.61	21.50
		3	3	20.50	20.68	20.64	21.50
		6	0	20.03	19.73	19.91	20.50
	256QAM	1	0	16.86	17.28	17.26	18.50
		1	2	17.59	17.73	17.77	18.50
		1	5	17.65	17.49	17.63	18.50
		3	0	17.64	17.32	17.86	18.50
		3	2	17.40	17.68	17.66	18.50
		3	3	17.63	18.05	17.75	18.50
		6	0	17.44	17.84	17.78	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	22.58	22.58	22.81	23.50
		1	7	22.68	22.83	23.14	23.50
		1	14	22.58	22.82	23.02	23.50
		8	0	21.48	21.80	21.91	22.50
		8	4	21.46	21.95	21.96	22.50
		8	7	21.67	21.83	21.94	22.50
		15	0	21.67	21.71	21.96	22.50
	16QAM	1	0	21.45	21.53	21.59	22.50
		1	7	21.70	21.90	21.98	22.50
		1	14	22.02	22.06	22.04	22.50
		8	0	20.62	20.72	20.58	21.50
		8	4	20.83	20.89	20.91	21.50
		8	7	20.94	20.76	21.10	21.50
		15	0	20.85	20.81	20.95	21.50
	64QAM	1	0	20.55	20.75	20.61	21.50
		1	7	20.87	21.07	21.03	21.50
		1	14	21.01	21.17	21.29	21.50
		8	0	19.61	19.75	19.83	20.50
		8	4	19.61	19.93	19.67	20.50
		8	7	19.90	20.00	19.80	20.50
		15	0	20.01	19.67	20.03	20.50
	256QAM	1	0	17.20	17.52	17.36	18.50
		1	7	17.61	17.77	17.73	18.50
		1	14	17.55	17.75	17.79	18.50
		8	0	17.60	17.60	17.62	18.50
		8	4	17.32	17.74	17.62	18.50
		8	7	17.41	17.85	17.71	18.50
		15	0	17.58	17.60	17.76	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	

5MHz	QPSK	1	0	22.38	22.54	22.91	23.50
		1	13	22.46	22.83	22.96	23.50
		1	24	22.56	22.80	23.14	23.50
		12	0	21.54	21.62	21.81	22.50
		12	6	21.38	21.59	22.02	22.50
		12	13	21.71	21.87	22.00	22.50
		25	0	21.37	21.69	21.86	22.50
	16QAM	1	0	21.49	21.45	21.43	22.50
		1	13	21.78	21.98	21.88	22.50
		1	24	21.98	21.90	21.98	22.50
		12	0	20.38	20.74	20.66	21.50
		12	6	20.85	20.83	20.91	21.50
		12	13	20.82	20.76	20.88	21.50
		25	0	20.55	20.55	20.71	21.50
	64QAM	1	0	20.51	20.43	20.57	21.50
		1	13	20.79	20.99	21.03	21.50
		1	24	21.03	20.87	21.11	21.50
		12	0	19.51	19.57	19.63	20.50
		12	6	19.53	19.81	19.79	20.50
		12	13	19.64	19.72	19.92	20.50
		25	0	19.95	19.53	19.87	20.50
	256QAM	1	0	17.04	17.46	17.16	18.50
		1	13	17.71	17.71	17.85	18.50
		1	24	17.55	17.55	17.59	18.50
		12	0	17.32	17.56	17.56	18.50
		12	6	17.24	17.56	17.68	18.50
		12	13	17.33	17.61	17.81	18.50
		25	0	17.58	17.52	17.64	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.42	22.76	22.95	23.50
		1	25	22.54	22.87	23.06	23.50
		1	49	22.74	22.88	23.24	23.50
		25	0	21.36	21.70	21.77	22.50
		25	13	21.68	21.63	22.10	22.50
		25	25	21.47	21.93	22.00	22.50
		50	0	21.55	21.63	22.10	22.50
	16QAM	1	0	21.25	21.67	21.63	22.50
		1	25	21.58	22.08	21.92	22.50
		1	49	22.06	21.86	22.22	22.50
		25	0	20.58	20.84	20.60	21.50
		25	13	21.09	20.87	21.03	21.50
		25	25	20.94	20.86	20.86	21.50

	64QAM	50	0	20.63	20.71	20.95	21.50
		1	0	20.69	20.67	20.71	21.50
		1	25	20.87	20.81	20.89	21.50
		1	49	21.13	21.03	21.23	21.50
		25	0	19.37	19.47	19.51	20.50
		25	13	19.47	19.89	19.57	20.50
		25	25	19.68	19.90	20.04	20.50
		50	0	19.89	19.73	19.97	20.50
	256QAM	1	0	17.06	17.56	17.54	18.50
		1	25	17.59	17.51	17.93	18.50
		1	49	17.61	17.61	17.55	18.50
		25	0	17.42	17.74	17.62	18.50
		25	13	17.28	17.92	17.66	18.50
		25	25	17.65	17.85	17.63	18.50
		50	0	17.44	17.86	17.58	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	22.58	22.66	23.07	23.50
		1	38	22.54	22.87	22.90	23.50
		1	74	22.64	22.86	22.98	23.50
		36	0	21.40	21.70	21.81	22.50
		36	18	21.64	21.77	22.08	22.50
		36	39	21.65	21.89	22.02	22.50
		75	0	21.71	21.67	21.90	22.50
	16QAM	1	0	21.33	21.77	21.51	22.50
		1	38	21.56	21.98	22.02	22.50
		1	74	21.96	21.92	22.04	22.50
		36	0	20.66	20.70	20.56	21.50
		36	18	20.89	20.75	21.05	21.50
		36	39	20.88	20.96	20.88	21.50
		75	0	20.85	20.87	20.73	21.50
	64QAM	1	0	20.49	20.73	20.81	21.50
		1	38	20.61	20.89	21.13	21.50
		1	74	21.13	20.97	21.21	21.50
		36	0	19.43	19.67	19.85	20.50
		36	18	19.57	19.93	19.77	20.50
		36	39	19.74	19.86	20.06	20.50
		75	0	19.95	19.67	19.85	20.50
	256QAM	1	0	17.02	17.36	17.22	18.50
		1	38	17.83	17.79	17.87	18.50
		1	74	17.47	17.69	17.81	18.50
		36	0	17.52	17.50	17.60	18.50
		36	18	17.48	17.72	17.66	18.50

		36	39	17.49	17.71	17.89	18.50
		75	0	17.60	17.62	17.60	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.44	22.54	22.89	23.50
		1	50	22.54	22.81	23.00	23.50
		1	99	22.60	22.92	23.04	23.50
		50	0	21.46	21.66	21.93	22.50
		50	25	21.56	21.79	22.00	22.50
		50	50	21.61	21.85	22.00	22.50
		100	0	21.53	21.77	21.96	22.50
	16QAM	1	0	21.39	21.63	21.61	22.50
		1	50	21.68	21.88	21.86	22.50
		1	99	21.94	22.00	22.04	22.50
		50	0	20.50	20.66	20.56	21.50
		50	25	20.91	20.77	20.93	21.50
		50	50	20.94	20.84	20.96	21.50
		100	0	20.75	20.75	20.85	21.50
	64QAM	1	0	20.61	20.63	20.65	21.50
		1	50	20.73	20.93	21.01	21.50
		1	99	21.05	21.01	21.15	21.50
		50	0	19.47	19.65	19.67	20.50
		50	25	19.53	19.77	19.71	20.50
		50	50	19.76	19.84	19.88	20.50
		100	0	19.85	19.73	19.89	20.50
	256QAM	1	0	17.12	17.36	17.34	18.50
		1	50	17.65	17.63	17.79	18.50
		1	99	17.45	17.73	17.65	18.50
		50	0	17.44	17.60	17.64	18.50
		50	25	17.34	17.72	17.62	18.50
		50	50	17.51	17.79	17.73	18.50
		100	0	17.56	17.70	17.64	18.50

LTE B66							
Receiver off--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	20.93	21.66	21.57	22.50
		1	2	21.17	21.37	21.43	22.50
		1	5	21.14	21.34	21.44	22.50
		3	0	21.74	21.87	22.16	22.50
		3	2	22.05	22.27	22.49	22.50
		3	3	22.12	22.26	22.41	22.50

		6	0	21.04	21.21	21.38	22.50
		1	0	20.61	21.15	21.27	22.50
		1	2	21.37	21.53	21.37	22.50
		1	5	21.36	21.52	21.82	22.50
		3	0	21.47	21.59	21.83	22.50
		3	2	21.70	21.82	21.84	22.50
		3	3	21.59	21.93	21.81	22.50
		6	0	20.28	20.64	20.90	21.50
		1	0	20.37	20.47	20.51	21.50
		1	2	20.77	21.09	20.77	21.50
		1	5	20.69	20.89	20.99	21.50
		3	0	20.15	20.73	20.59	21.50
		3	2	20.45	20.61	20.47	21.50
		3	3	20.53	20.71	20.85	21.50
		6	0	19.43	19.81	20.01	20.50
		1	0	17.18	17.32	17.56	18.50
		1	2	17.49	17.75	17.79	18.50
		1	5	17.29	17.73	17.95	18.50
		3	0	17.29	17.67	17.65	18.50
		3	2	17.24	17.86	17.90	18.50
		3	3	17.43	17.67	17.47	18.50
		6	0	17.15	17.49	17.81	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	20.95	21.40	21.45	22.50
		1	7	21.09	21.25	21.59	22.50
		1	14	21.04	21.46	21.50	22.50
		8	0	21.18	21.31	21.54	22.50
		8	4	21.05	21.27	21.61	22.50
		8	7	21.18	21.28	21.63	22.50
		15	0	21.12	21.21	21.54	22.50
		1	0	20.85	21.23	21.41	22.50
	16QAM	1	7	21.45	21.31	21.49	22.50
		1	14	21.38	21.38	21.60	22.50
		8	0	20.57	20.59	20.81	21.50
		8	4	20.56	20.70	20.92	21.50
		8	7	20.53	20.85	20.81	21.50
		15	0	20.36	20.82	20.76	21.50
		1	0	20.59	20.55	20.49	21.50
	64QAM	1	7	20.69	21.01	20.89	21.50
		1	14	20.95	20.91	20.93	21.50
		8	0	19.41	19.79	19.75	20.50
		8	4	19.61	19.67	19.73	20.50

	256QAM	8	7	19.35	19.91	19.87	20.50
		15	0	19.55	19.79	19.85	20.50
		1	0	17.06	17.30	17.20	18.50
		1	7	17.33	17.69	17.57	18.50
		1	14	17.43	17.79	17.45	18.50
		8	0	17.09	17.71	17.43	18.50
		8	4	17.34	17.60	17.90	18.50
		8	7	17.33	17.87	17.85	18.50
		15	0	17.29	17.77	17.69	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	20.75	21.32	21.47	22.50
		1	13	21.05	21.21	21.53	22.50
		1	24	20.86	21.42	21.58	22.50
		12	0	21.14	21.09	21.50	22.50
		12	6	21.21	21.33	21.33	22.50
		12	13	21.12	21.34	21.55	22.50
		25	0	21.14	21.17	21.48	22.50
	16QAM	1	0	20.61	21.19	21.25	22.50
		1	13	21.33	21.47	21.15	22.50
		1	24	21.10	21.56	21.48	22.50
		12	0	20.27	20.45	20.65	21.50
		12	6	20.44	20.72	20.88	21.50
		12	13	20.55	20.85	20.63	21.50
		25	0	20.48	20.62	20.66	21.50
	64QAM	1	0	20.61	20.63	20.63	21.50
		1	13	20.49	20.93	20.69	21.50
		1	24	20.71	20.81	20.81	21.50
		12	0	19.09	19.75	19.77	20.50
		12	6	19.59	19.73	19.81	20.50
		12	13	19.47	19.81	19.77	20.50
		25	0	19.43	19.75	19.91	20.50
	256QAM	1	0	17.14	17.52	17.50	18.50
		1	13	17.49	17.53	17.81	18.50
		1	24	17.27	17.75	17.73	18.50
		12	0	17.29	17.51	17.47	18.50
		12	6	17.56	17.80	17.86	18.50
		12	13	17.47	17.83	17.85	18.50
		25	0	17.51	17.85	17.67	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.01	21.38	21.45	22.50
		1	25	21.27	21.25	21.69	22.50

		1	49	20.90	21.50	21.38	22.50
		25	0	21.04	21.33	21.42	22.50
		25	13	21.29	21.47	21.71	22.50
		25	25	20.86	21.56	21.59	22.50
		50	0	21.04	21.09	21.36	22.50
	16QAM	1	0	20.99	21.23	21.15	22.50
		1	25	21.41	21.63	21.47	22.50
		1	49	21.40	21.50	21.46	22.50
		25	0	20.29	20.79	20.77	21.50
		25	13	20.66	20.62	20.78	21.50
		25	25	20.49	20.67	20.99	21.50
		50	0	20.50	20.80	20.68	21.50
	64QAM	1	0	20.37	20.49	20.51	21.50
		1	25	20.81	21.01	20.67	21.50
		1	49	20.63	21.19	21.21	21.50
		25	0	19.15	19.65	19.77	20.50
		25	13	19.61	19.67	19.87	20.50
		25	25	19.33	19.73	19.77	20.50
		50	0	19.23	19.61	20.03	20.50
	256QAM	1	0	17.10	17.54	17.30	18.50
		1	25	17.45	17.51	17.71	18.50
		1	49	17.45	17.85	17.55	18.50
		25	0	17.43	17.83	17.61	18.50
		25	13	17.64	17.62	17.90	18.50
		25	25	17.49	17.71	17.83	18.50
		50	0	17.45	17.77	17.77	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	20.95	21.40	21.27	22.50
		1	38	21.21	21.43	21.51	22.50
		1	74	20.94	21.40	21.50	22.50
		36	0	21.00	21.09	21.58	22.50
		36	18	21.31	21.29	21.49	22.50
		36	39	21.16	21.34	21.47	22.50
		75	0	21.02	21.39	21.58	22.50
	16QAM	1	0	20.79	21.31	21.25	22.50
		1	38	21.39	21.37	21.49	22.50
		1	74	21.22	21.38	21.66	22.50
		36	0	20.47	20.57	20.81	21.50
		36	18	20.74	20.72	21.08	21.50
		36	39	20.41	20.99	20.77	21.50
		75	0	20.38	20.68	20.86	21.50
	64QAM	1	0	20.55	20.57	20.71	21.50

		1	38	20.49	20.89	20.85	21.50
		1	74	20.79	21.19	20.97	21.50
		36	0	19.25	19.77	19.99	20.50
		36	18	19.75	19.71	19.65	20.50
		36	39	19.33	19.79	19.95	20.50
		75	0	19.51	19.81	19.97	20.50
	256QAM	1	0	17.12	17.38	17.38	18.50
		1	38	17.37	17.79	17.91	18.50
		1	74	17.37	17.73	17.59	18.50
		36	0	17.35	17.77	17.43	18.50
		36	18	17.52	17.70	18.00	18.50
		36	39	17.39	17.85	17.81	18.50
		75	0	17.31	17.81	17.71	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	20.95	21.50	21.39	22.50
		1	50	21.15	21.33	21.51	22.50
		1	99	20.96	21.42	21.54	22.50
		50	0	21.06	21.17	21.44	22.50
		50	25	21.13	21.29	21.49	22.50
		50	50	21.04	21.36	21.49	22.50
		100	0	21.04	21.27	21.46	22.50
	16QAM	1	0	20.77	21.13	21.27	22.50
		1	50	21.29	21.41	21.33	22.50
		1	99	21.24	21.48	21.58	22.50
		50	0	20.41	20.65	20.77	21.50
		50	25	20.62	20.78	20.96	21.50
		50	50	20.53	20.85	20.83	21.50
		100	0	20.44	20.76	20.86	21.50
	64QAM	1	0	20.51	20.63	20.57	21.50
		1	50	20.59	20.93	20.83	21.50
		1	99	20.81	21.01	20.99	21.50
		50	0	19.27	19.65	19.83	20.50
		50	25	19.57	19.77	19.75	20.50
		50	50	19.45	19.83	19.91	20.50
		100	0	19.39	19.73	19.81	20.50
	256QAM	1	0	17.06	17.36	17.40	18.50
		1	50	17.45	17.63	17.73	18.50
		1	99	17.35	17.73	17.65	18.50
		50	0	17.27	17.61	17.53	18.50
		50	25	17.48	17.74	17.82	18.50
		50	50	17.49	17.81	17.75	18.50
		100	0	17.43	17.71	17.63	18.50

LTE B66							
Hotspot on--Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	19.00	19.06	19.40	20.50
		1	2	19.18	19.24	19.63	20.50
		1	5	19.06	19.43	19.68	20.50
		3	0	19.05	19.24	19.44	20.50
		3	2	19.16	19.29	19.60	20.50
		3	3	19.23	19.46	19.43	20.50
		6	0	19.04	19.35	19.50	20.50
	16QAM	1	0	18.83	19.08	19.32	20.50
		1	2	19.13	19.38	19.56	20.50
		1	5	19.58	19.53	19.65	20.50
		3	0	18.66	19.13	19.21	20.50
		3	2	19.29	19.26	19.62	20.50
		3	3	19.32	19.33	19.49	20.50
		6	0	19.11	19.18	19.18	20.50
	64QAM	1	0	18.80	19.29	19.17	20.50
		1	2	19.08	19.39	19.45	20.50
		1	5	19.47	19.40	19.62	20.50
		3	0	18.77	19.08	19.14	20.50
		3	2	18.75	19.38	19.16	20.50
		3	3	19.21	19.26	19.44	20.50
		6	0	19.23	19.30	19.52	20.50
	256QAM	1	0	17.22	17.27	17.37	18.50
		1	2	17.25	17.34	17.34	18.50
		1	5	17.51	17.66	17.94	18.50
		3	0	17.39	17.82	17.68	18.50
		3	2	17.42	17.75	17.73	18.50
		3	3	17.78	17.63	17.71	18.50
		6	0	17.86	17.83	17.75	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.94	19.02	19.14	20.50
		1	7	18.92	19.30	19.29	20.50
		1	14	18.82	19.39	19.66	20.50
		8	0	19.05	18.84	19.36	20.50
		8	4	19.22	19.23	19.68	20.50
		8	7	18.89	19.34	19.65	20.50
		15	0	19.38	19.05	19.38	20.50
	16QAM	1	0	19.01	19.12	19.10	20.50

		1	7	19.05	19.44	19.80	20.50
		1	14	19.40	19.41	19.69	20.50
		8	0	18.82	19.25	19.25	20.50
		8	4	19.35	19.02	19.34	20.50
		8	7	19.38	19.41	19.75	20.50
		15	0	18.95	19.02	19.16	20.50
	64QAM	1	0	19.04	19.09	19.15	20.50
		1	7	18.64	19.19	19.51	20.50
		1	14	19.61	19.40	19.78	20.50
		8	0	18.71	19.24	18.90	20.50
		8	4	18.73	19.28	19.30	20.50
		8	7	18.83	19.34	19.12	20.50
		15	0	19.03	19.30	19.32	20.50
	256QAM	1	0	17.24	17.31	17.51	18.50
		1	7	17.37	17.60	17.42	18.50
		1	14	17.55	17.70	17.64	18.50
		8	0	17.37	17.50	17.48	18.50
		8	4	17.74	17.63	17.81	18.50
		8	7	17.80	17.79	18.09	18.50
		15	0	17.80	17.65	17.97	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	18.80	19.10	19.32	20.50
		1	13	18.98	19.26	19.41	20.50
		1	24	19.14	19.25	19.50	20.50
		12	0	18.95	19.24	19.48	20.50
		12	6	18.90	19.11	19.56	20.50
		12	13	19.03	19.44	19.43	20.50
		25	0	19.10	19.13	19.38	20.50
	16QAM	1	0	18.77	18.92	19.02	20.50
		1	13	19.15	19.42	19.52	20.50
		1	24	19.54	19.27	19.79	20.50
		12	0	18.78	19.05	19.19	20.50
		12	6	19.17	19.30	19.48	20.50
		12	13	19.24	19.25	19.63	20.50
		25	0	19.07	19.30	19.20	20.50
	64QAM	1	0	18.70	19.11	19.15	20.50
		1	13	18.76	19.27	19.47	20.50
		1	24	19.51	19.32	19.54	20.50
		12	0	18.95	19.02	18.96	20.50
		12	6	18.81	19.16	19.14	20.50
		12	13	19.11	19.22	19.22	20.50
		25	0	19.35	19.12	19.34	20.50

	256QAM	1	0	17.14	17.39	17.17	18.50
		1	13	17.07	17.48	17.28	18.50
		1	24	17.39	17.74	17.66	18.50
		12	0	17.25	17.42	17.38	18.50
		12	6	17.48	17.71	17.71	18.50
		12	13	17.90	17.67	17.83	18.50
		25	0	17.58	17.55	17.85	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	18.94	19.18	19.38	20.50
		1	25	19.20	19.34	19.45	20.50
		1	49	19.28	19.55	19.42	20.50
		25	0	19.07	19.14	19.30	20.50
		25	13	18.96	19.35	19.50	20.50
		25	25	19.13	19.32	19.51	20.50
		50	0	19.00	19.19	19.54	20.50
	16QAM	1	0	18.75	19.18	19.26	20.50
		1	25	19.39	19.52	19.60	20.50
		1	49	19.62	19.49	19.63	20.50
		25	0	18.88	19.03	19.07	20.50
		25	13	19.15	19.32	19.66	20.50
		25	25	19.48	19.27	19.51	20.50
		50	0	19.13	19.44	19.40	20.50
	64QAM	1	0	19.00	19.11	19.11	20.50
		1	25	18.84	19.63	19.41	20.50
		1	49	19.51	19.58	19.54	20.50
		25	0	18.77	19.26	19.18	20.50
		25	13	18.89	19.38	19.26	20.50
		25	25	19.11	19.26	19.24	20.50
		50	0	19.33	19.24	19.44	20.50
	256QAM	1	0	17.04	17.37	17.45	18.50
		1	25	17.09	17.72	17.30	18.50
		1	49	17.63	17.72	17.60	18.50
		25	0	17.53	17.76	17.54	18.50
		25	13	17.64	17.61	17.83	18.50
		25	25	17.96	17.81	18.09	18.50
		50	0	17.80	17.73	17.93	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	19.04	18.92	19.38	20.50
		1	38	18.98	19.28	19.39	20.50
		1	74	18.94	19.37	19.54	20.50
		36	0	19.09	19.14	19.64	20.50

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		50	0	18.85	19.14	19.00	20.50
		50	25	18.79	19.26	19.18	20.50
		50	50	19.07	19.34	19.28	20.50
		100	0	19.29	19.22	19.44	20.50
	256QAM	1	0	17.10	17.35	17.35	18.50
		1	50	17.27	17.62	17.44	18.50
		1	99	17.45	17.74	17.70	18.50
		50	0	17.39	17.60	17.50	18.50
		50	25	17.58	17.73	17.67	18.50
		50	50	17.82	17.79	18.01	18.50
		100	0	17.72	17.71	17.83	18.50

9.6 WLAN Mode

Wi-Fi 2.4GHz Normal Power&Receiver off--Ant7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11b (1M)	1/2412	18.50	17.63
	6/2437	18.50	18.02
	11/2462	18.50	17.92
802.11g (6M)	1/2412	18.50	17.72
	6/2437	18.50	17.66
	11/2462	18.50	17.94
802.11n-HT20 (MCS0)	1/2412	18.50	17.90
	6/2437	18.50	17.58
	11/2462	18.50	17.89
802.11n-HT40 (MCS0)	3/2422	15.50	14.31
	6/2437	15.50	14.44
	9/2452	15.50	14.95

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Receiver on--Ant7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11b (1M)	1/2412	18.50	17.63
	6/2437	18.50	18.02
	11/2462	18.50	17.92
802.11g (6M)	1/2412	17.50	16.11
	6/2437	17.50	16.13
	11/2462	17.50	16.51
802.11n-HT20 (MCS0)	1/2412	17.50	16.44
	6/2437	17.50	15.97
	11/2462	17.50	16.40
802.11n-HT40 (MCS0)	3/2422	15.50	14.31
	6/2437	15.50	14.44
	9/2452	15.50	14.95

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz	Channel	Maximum Output Power (dBm)
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Hotspot on-Ant7	/Frequency(MHz)	Tune-up	Meas.
Mode			
802.11b (1M)	1/2412	14.50	13.33
	6/2437	14.50	13.34
	11/2462	14.50	13.46
802.11g (6M)	1/2412	13.50	12.38
	6/2437	13.50	12.33
	11/2462	13.50	12.01
802.11n-HT20 (MCS0)	1/2412	13.50	12.00
	6/2437	13.50	12.22
	11/2462	13.50	11.95
802.11n-HT40 (MCS0)	3/2422	11.50	10.48
	6/2437	11.50	10.61
	9/2452	11.50	10.67

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz WWAN+WLAN Receiver on--Ant7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11b (1M)	1/2412	9.50	8.64
	6/2437	9.50	8.68
	11/2462	9.50	8.21
802.11g (6M)	1/2412	8.50	7.52
	6/2437	8.50	7.85
	11/2462	8.50	7.37
802.11n-HT20 (MCS0)	1/2412	8.50	7.34
	6/2437	8.50	7.77
	11/2462	8.50	7.34
802.11n-HT40 (MCS0)	3/2422	7.50	6.35
	6/2437	7.50	6.48
	9/2452	7.50	6.42

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz WWAN+WLAN Receiver off+Hotspot off--Ant7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11b	1/2412	10.50	9.50

(1M)	6/2437	10.50	9.52
	11/2462	10.50	9.05
802.11g (6M)	1/2412	9.50	8.45
	6/2437	9.50	8.82
	11/2462	9.50	8.28
802.11n-HT20 (MCS0)	1/2412	9.50	8.15
	6/2437	9.50	8.63
	11/2462	9.50	8.14
802.11n-HT40 (MCS0)	3/2422	8.50	7.15
	6/2437	8.50	7.26
	9/2452	8.50	7.18

Note: Initial test configuration is 802.11b mode.

Wi-Fi 5GHz (U-NII-1) Hotspot on-Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	14.50	12.63
	40/5200	14.50	13.18
	44/5220	14.50	13.25
	48/5240	14.50	12.99
802.11n-HT20 (MCS0)	36/5180	12.50	11.73
	40/5200	12.50	11.95
	44/5220	12.50	12.11
	48/5240	12.50	11.48
802.11n-HT40 (MCS0)	38/5190	12.50	11.25
	46/5230	12.50	11.35
802.11ac-VHT20 (MCS0)	36/5180	12.50	11.23
	40/5200	12.50	11.63
	44/5220	12.50	11.65
	48/5240	12.50	11.39
802.11ac-VHT40 (MCS0)	38/5190	12.50	11.26
	46/5230	12.50	11.44
802.11ac-VHT80 (MCS0)	42/5210	12.00	11.10

Wi-Fi 5GHz (U-NII-2A) Hotspot on-Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a	52/5260	14.50	12.60

(6M)	56/5280	14.50	13.32
	60/5300	14.50	12.83
	64/5320	14.50	12.84
802.11n-HT20 (MCS0)	52/5260	12.50	11.93
	56/5280	12.50	11.95
	60/5300	12.50	11.33
	64/5320	12.50	11.36
802.11n-HT40 (MCS0)	54/5270	12.50	11.38
	62/5310	12.50	11.99
802.11ac-VHT20 (MCS0)	52/5260	12.50	11.55
	56/5280	12.50	11.78
	60/5300	12.50	11.23
	64/5320	12.50	11.50
802.11ac-VHT40 (MCS0)	54/5270	12.50	11.31
	62/5310	12.50	11.45
802.11ac-VHT80 (MCS0)	58/5290	12.00	10.90
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-2C) Hotspot on-Ant7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	14.50	12.83
	116/5580	14.50	13.16
	120/5600	14.50	13.02
	132/5660	14.50	13.10
	140/5700	14.50	13.16
802.11n-HT20 (MCS0)	100/5500	12.50	11.05
	116/5580	12.50	11.34
	132/5660	12.50	10.99
	140/5700	12.50	11.37
802.11n-HT40 (MCS0)	102/5510	12.50	11.81
	110/5550	12.50	11.43
	118/5590	12.50	11.64
	134/5670	12.50	11.86
802.11ac-VHT20 (MCS0)	100/5500	12.50	11.52
	116/5580	12.50	11.69
	132/5660	12.50	11.59
	140/5700	12.50	11.65
802.11ac-VHT40	102/5510	12.50	11.47

(MCS0)	110/5550	12.50	11.16
	118/5590	12.50	11.15
	134/5670	12.50	11.22
802.11ac-VHT80 (MCS0)	106/5530	12.00	11.22
	122/5610	12.00	10.89

Note. Initial test configuration is 802.11a mode.

Wi-Fi 5GHz (U-NII-3) Hotspot on-Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	14.50	13.43
	157/5785	14.50	13.39
	165/5825	14.50	13.04
802.11n-HT20 (MCS0)	149/5745	12.50	11.93
	157/5785	12.50	11.43
	165/5825	12.50	11.27
802.11n-HT40 (MCS0)	151/5755	12.50	12.46
	159/5795	12.50	12.09
802.11ac-VHT20 (MCS0)	149/5745	12.50	11.81
	157/5785	12.50	12.11
	165/5825	12.50	12.24
802.11ac-VHT40 (MCS0)	151/5755	12.50	12.11
	159/5795	12.50	12.25
802.11ac-VHT80 (MCS0)	155/5775	12.00	11.93

Note. Initial test configuration is 802.11a mode.

Wi-Fi 5GHz (U-NII-1) WWAN+WLAN Receiver on--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	10.00	9.06
	40/5200	10.00	9.09
	44/5220	10.00	9.18
	48/5240	10.00	9.08
802.11n-HT20 (MCS0)	36/5180	9.00	7.97
	40/5200	9.00	7.72
	44/5220	9.00	7.55
	48/5240	9.00	7.82
802.11n-HT40	38/5190	9.00	7.64

(MCS0)	46/5230	9.00	7.61
802.11ac-VHT20 (MCS0)	36/5180	9.00	7.33
	40/5200	9.00	7.30
	44/5220	9.00	7.23
	48/5240	9.00	7.73
802.11ac-VHT40 (MCS0)	38/5190	9.00	7.31
	46/5230	9.00	7.24
802.11ac-VHT80 (MCS0)	42/5210	8.00	7.55

Wi-Fi 5GHz (U-NII-2A) WWAN+WLAN Receiver on--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	10.00	8.61
	56/5280	10.00	8.96
	60/5300	10.00	9.08
	64/5320	10.00	9.10
802.11n-HT20 (MCS0)	52/5260	9.00	7.23
	56/5280	9.00	7.29
	60/5300	9.00	7.73
	64/5320	9.00	7.64
802.11n-HT40 (MCS0)	54/5270	9.00	7.35
	62/5310	9.00	7.15
802.11ac-VHT20 (MCS0)	52/5260	9.00	7.40
	56/5280	9.00	7.08
	60/5300	9.00	7.18
	64/5320	9.00	7.40
802.11ac-VHT40 (MCS0)	54/5270	9.00	7.40
	62/5310	9.00	7.55
802.11ac-VHT80 (MCS0)	58/5290	8.00	6.93

Note. Initial test configuration is 802.11a mode.

Wi-Fi 5GHz (U-NII-2C) WWAN+WLAN Receiver on--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	10.00	9.27
	116/5580	10.00	9.23
	120/5600	10.00	9.24

	132/5660	10.00	9.02
	140/5700	10.00	9.14
802.11n-HT20 (MCS0)	100/5500	9.00	7.47
	116/5580	9.00	7.46
	132/5660	9.00	7.88
	140/5700	9.00	7.95
802.11n-HT40 (MCS0)	102/5510	9.00	7.27
	110/5550	9.00	7.27
	118/5590	9.00	7.70
	134/5670	9.00	7.81
802.11ac-VHT20 (MCS0)	100/5500	9.00	7.34
	116/5580	9.00	7.31
	132/5660	9.00	7.71
	140/5700	9.00	7.50
802.11ac-VHT40 (MCS0)	102/5510	9.00	7.48
	110/5550	9.00	7.69
	118/5590	9.00	7.30
	134/5670	9.00	7.30
802.11ac-VHT80 (MCS0)	106/5530	8.00	7.04
	122/5610	8.00	7.27
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-3) WWAN+WLAN Receiver on--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	10.00	9.14
	157/5785	10.00	9.26
	165/5825	10.00	9.21
802.11n-HT20 (MCS0)	149/5745	9.00	8.23
	157/5785	9.00	8.08
	165/5825	9.00	7.70
802.11n-HT40 (MCS0)	151/5755	9.00	8.48
	159/5795	9.00	8.07
802.11ac-VHT20 (MCS0)	149/5745	9.00	8.13
	157/5785	9.00	7.73
	165/5825	9.00	8.05
802.11ac-VHT40 (MCS0)	151/5755	9.00	8.57
	159/5795	9.00	8.09
802.11ac-VHT80	155/5775	8.00	7.48

(MCS0)			
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-1) WWAN+WLAN Receiver off+Hotspot off--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	11.00	9.98
	40/5200	11.00	9.95
	44/5220	11.00	10.10
	48/5240	11.00	10.14
802.11n-HT20 (MCS0)	36/5180	10.00	8.81
	40/5200	10.00	8.82
	44/5220	10.00	8.94
	48/5240	10.00	9.08
802.11n-HT40 (MCS0)	38/5190	10.00	8.48
	46/5230	10.00	8.61
802.11ac-VHT20 (MCS0)	36/5180	9.00	8.21
	40/5200	9.00	8.26
	44/5220	9.00	8.05
	48/5240	9.00	8.63
802.11ac-VHT40 (MCS0)	38/5190	10.00	8.39
	46/5230	10.00	8.24
802.11ac-VHT80 (MCS0)	42/5210	9.00	8.59

Wi-Fi 5GHz (U-NII-2A) WWAN+WLAN Receiver off+Hotspot off--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	11.00	9.79
	56/5280	11.00	9.82
	60/5300	11.00	9.98
	64/5320	11.00	9.82
802.11n-HT20 (MCS0)	52/5260	10.00	8.31
	56/5280	10.00	8.29
	60/5300	10.00	8.47
	64/5320	10.00	8.60
802.11n-HT40	54/5270	10.00	8.35

(MCS0)	62/5310	10.00	8.23
802.11ac-VHT20 (MCS0)	52/5260	9.00	8.46
	56/5280	9.00	8.06
	60/5300	9.00	8.16
	64/5320	9.00	8.42
802.11ac-VHT40 (MCS0)	54/5270	10.00	8.34
	62/5310	10.00	8.51
802.11ac-VHT80 (MCS0)	58/5290	9.00	7.99
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-2C) WWAN+WLAN Receiver off+Hotspot off--Ant7 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.00	10.11
	116/5580	11.00	10.13
	120/5600	11.00	10.08
	132/5660	11.00	10.12
	140/5700	11.00	10.06
802.11n-HT20 (MCS0)	100/5500	10.00	8.37
	116/5580	10.00	8.38
	132/5660	10.00	8.80
	140/5700	10.00	8.79
802.11n-HT40 (MCS0)	102/5510	10.00	8.19
	110/5550	10.00	8.15
	118/5590	10.00	8.70
	134/5670	10.00	8.67
802.11ac-VHT20 (MCS0)	100/5500	9.00	8.42
	116/5580	9.00	8.29
	132/5660	9.00	8.71
	140/5700	9.00	8.46
802.11ac-VHT40 (MCS0)	102/5510	10.00	8.38
	110/5550	10.00	8.53
	118/5590	10.00	8.32
	134/5670	10.00	8.38
802.11ac-VHT80 (MCS0)	106/5530	9.00	8.14
	122/5610	9.00	8.19
Note. Initial test configuration is 802.11a mode.			

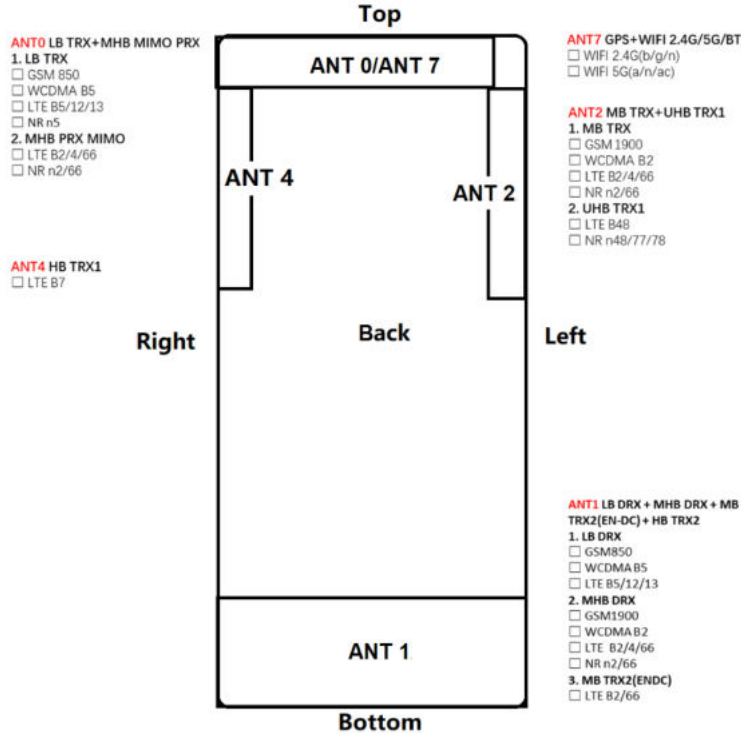
Wi-Fi 5GHz (U-NII-3) WWAN+WLAN Receiver off+Hotspot off--Ant7	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	149/5745	11.00	10.47
	157/5785	11.00	10.30
	165/5825	11.00	10.17
802.11n-HT20 (MCS0)	149/5745	10.00	9.35
	157/5785	10.00	9.18
	165/5825	10.00	8.70
802.11n-HT40 (MCS0)	151/5755	10.00	9.38
	159/5795	10.00	9.19
802.11ac-VHT20 (MCS0)	149/5745	9.00	8.95
	157/5785	9.00	8.75
	165/5825	9.00	8.89
802.11ac-VHT40 (MCS0)	151/5755	10.00	9.55
	159/5795	10.00	8.99
802.11ac-VHT80 (MCS0)	155/5775	9.00	8.54
Note. Initial test configuration is 802.11a mode.			

9.7 Bluetooth Mode

Bluetooth	Conducted Power(dBm)					
	Channel/Frequency(MHz)					
	Ch 0/2402	Tune-up Limit	Ch 39/2441	Tune-up Limit	Ch 78/2480	Tune-up Limit
GFSK	7.54	8.50	8.06	9.00	4.43	5.50
$\pi/4$ DQPSK	4.17	5.50	4.45	5.50	0.78	2.00
8DPSK	4.33	5.50	4.65	5.50	0.91	2.00
BLE	Ch 0/2402	Tune-up Limit	Ch 19/2440	Tune-up Limit	Ch 39/2480	Tune-up Limit
GFSK(1M)	-0.51	1.00	0.56	1.00	-2.61	-1.00
GFSK(2M)	-2.31	-1.00	-1.23	0.00	-4.50	-3.00

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations



Overall (Length x Width): 167 mm x 77 mm

Overall Diagonal: 177 mm/Display Diagonal: 173.5mm

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 4	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
ANT7	<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	Yes	Yes	Yes	N/A
ANT 1	Yes	Yes	Yes	Yes	N/A	Yes
ANT 2	Yes	Yes	Yes	N/A	Yes	N/A
ANT 4	Yes	Yes	N/A	Yes	Yes	N/A
ANT7	Yes	Yes	Yes	Yes	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 177mm. Per KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, product specific 10-g SAR must be tested as a phablet to determine SAR compliance. For Phablet, Since hotspot mode 1-g *reported* SAR <1.2W/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:
- a) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - b) ≤ 0.6 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.
 - c) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
4. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

10.2 Measured SAR Results

Note:

1. The value with blue color is the maximum SAR Value of each test band.
2. For GSM, when multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
3. For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.
4. For LTE, QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).
5. 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.

Head SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
GSM 850	ANT0	Left Cheek	0	GSM	Standalone	Receiver on	N/A	N/A	190/836.6	32.50	32.07	0.602	0.046	1.10	0.665	/
		Left Tilt	0	GSM		Receiver on	N/A	N/A	190/836.6	32.50	32.07	0.615	0.074	1.10	0.679	/
		Right Cheek	0	GSM		Receiver on	N/A	N/A	190/836.6	32.50	32.07	0.701	0.110	1.10	0.774	20
		Right Tilt	0	GSM		Receiver on	N/A	N/A	190/836.6	32.50	32.07	0.689	0.070	1.10	0.761	/
		Right Tilt Battery2	0	GSM		Receiver on	N/A	N/A	190/836.6	32.50	32.07	0.634	0.049	1.10	0.700	/
GSM 1900	ANT2	Left Cheek	0	GSM	Standalone	Receiver on	N/A	N/A	661/1880	27.80	26.34	0.458	0.025	1.40	0.641	21
		Left Tilt	0	GSM		Receiver on	N/A	N/A	661/1880	27.80	26.34	0.192	0.017	1.40	0.269	/
		Right Cheek	0	GSM		Receiver on	N/A	N/A	661/1880	27.80	26.34	0.202	0.018	1.40	0.283	/
		Right Tilt	0	GSM		Receiver on	N/A	N/A	661/1880	27.80	26.34	0.209	0.010	1.40	0.293	/
		Left Cheek Battery2	0	GSM		Receiver on	N/A	N/A	661/1880	27.80	26.34	0.427	0.033	1.40	0.598	/
WCDMA II	ANT2	Left Cheek	0	RMC 12.2K	Standalone	Receiver on	N/A	N/A	9400/1880	20.00	18.18	0.523	-0.100	1.52	0.795	/
		Left Tilt	0	RMC 12.2K		Receiver on	N/A	N/A	9400/1880	20.00	18.18	0.181	0.038	1.52	0.275	/
		Right Cheek	0	RMC 12.2K		Receiver on	N/A	N/A	9400/1880	20.00	18.18	0.236	0.011	1.52	0.359	/
		Right Tilt	0	RMC 12.2K		Receiver on	N/A	N/A	9400/1880	20.00	18.18	0.231	0.090	1.52	0.351	/
		Left Cheek Battery2	0	RMC 12.2K		Receiver on	N/A	N/A	9400/1880	20.00	18.18	0.580	-0.100	1.52	0.882	22

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WCDMA V	ANT0	Left Cheek	0	RMC 12.2K	Standa lone	Receiver on	N/A	N/A	4183/836.6	23.50	22.56	0.477	0.039	1.24	0.592	/
		Left Tilt	0	RMC 12.2K		Receiver on	N/A	N/A	4183/836.6	23.50	22.56	0.385	-0.027	1.24	0.478	/
		Right Cheek	0	RMC 12.2K		Receiver on	N/A	N/A	4183/836.6	23.50	22.56	0.506	0.078	1.24	0.628	/
		Right Tilt	0	RMC 12.2K		Receiver on	N/A	N/A	4183/836.6	23.50	22.56	0.435	0.040	1.24	0.540	/
		Right Cheek Battery2	0	RMC 12.2K		Receiver on	N/A	N/A	4183/836.6	23.50	22.56	0.585	-0.010	1.24	0.726	23
LTE 2	ANT2	Left Cheek	0	QPSK	Standa lone & ENDC	Receiver on	1	50	18900/1880	19.50	18.36	0.532	0.170	1.30	0.692	/
			0	QPSK		Receiver on	50%	50	18900/1880	19.50	18.33	0.506	0.022	1.31	0.662	/
		Left Tilt	0	QPSK		Receiver on	1	50	18900/1880	19.50	18.36	0.216	0.064	1.30	0.281	/
			0	QPSK		Receiver on	50%	50	18900/1880	19.50	18.33	0.213	0.085	1.31	0.279	/
		Right Cheek	0	QPSK		Receiver on	1	50	18900/1880	19.50	18.36	0.230	0.021	1.30	0.299	/
			0	QPSK		Receiver on	50%	50	18900/1880	19.50	18.33	0.236	-0.048	1.31	0.309	/
		Right Tilt	0	QPSK		Receiver on	1	50	18900/1880	19.50	18.36	0.261	0.073	1.30	0.339	/
			0	QPSK		Receiver on	50%	50	18900/1880	19.50	18.33	0.249	0.018	1.31	0.326	/
	ANT1	Left Cheek Battery2	0	QPSK		Receiver on	1	50	18900/1880	19.50	18.36	0.555	0.130	1.30	0.722	24
		Left Cheek	0	QPSK	ENDC	Receiver on	1	50	18700/1860	23.50	22.86	0.090	0.091	1.16	0.104	/
			0	QPSK		Receiver on	50%	25	18700/1860	22.50	21.85	0.051	-0.038	1.16	0.059	/
		Left Tilt	0	QPSK		Receiver on	1	50	18700/1860	23.50	22.86	0.056	0.065	1.16	0.065	/
			0	QPSK		Receiver on	50%	25	18700/1860	22.50	21.85	0.043	0.140	1.16	0.050	/
		Right Cheek	0	QPSK		Receiver on	1	50	18700/1860	23.50	22.86	0.193	0.030	1.16	0.224	/
			0	QPSK		Receiver on	50%	25	18700/1860	22.50	21.85	0.152	0.049	1.16	0.177	/
		Right Tilt	0	QPSK		Receiver on	1	50	18700/1860	23.50	22.86	0.072	0.013	1.16	0.083	/
			0	QPSK		Receiver on	50%	25	18700/1860	22.50	21.85	0.056	0.065	1.16	0.065	/
LTE 5	ANT0	Left Cheek	0	QPSK	Standa lone	Receiver on	1	49	20450/829	25.00	24.53	0.714	0.048	1.11	0.796	/
			0	QPSK		Receiver on	50%	25	20450/829	24.00	23.51	0.539	0.090	1.12	0.603	/
		Left Cheek	0	QPSK	ENDC	Receiver on	1	49	20450/829	22.00	21.41	0.323	-0.040	1.15	0.370	/
			0	QPSK		Receiver on	50%	25	20450/829	22.00	21.33	0.321	0.032	1.17	0.375	/
		Left Tilt	0	QPSK	Standa lone & ENDC	Receiver on	1	49	20450/829	25.00	24.53	0.647	-0.160	1.11	0.721	/
			0	QPSK		Receiver on	50%	25	20450/829	24.00	23.51	0.486	0.025	1.12	0.544	/
		Right Cheek	0	QPSK		Receiver on	1	49	20450/829	25.00	24.53	0.744	0.038	1.11	0.829	/
			0	QPSK		Receiver on	1	49	20525/836.5	25.00	24.46	0.770	0.010	1.13	0.872	/
			0	QPSK		Receiver on	1	49	20600/844	25.00	24.43	0.817	0.016	1.14	0.932	/
			0	QPSK		Receiver on	50%	25	20450/829	24.00	23.51	0.540	0.080	1.12	0.604	/
		Right Cheek Repeat	0	QPSK		Receiver on	100%	0	20450/829	24.00	23.49	0.524	0.050	1.12	0.589	/
			0	QPSK		Receiver on	1	49	20600/844	25.00	24.43	0.786	0.023	1.14	0.896	/
		Right Tilt	0	QPSK		Receiver on	1	49	20450/829	25.00	24.53	0.653	-0.049	1.11	0.728	/
			0	QPSK		Receiver on	50%	25	20450/829	24.00	23.51	0.476	0.048	1.12	0.533	/
		Right Cheek	0	QPSK		Receiver on	1	49	20600/844	25.00	24.43	0.915	-0.010	1.14	1.043	25

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		Battery2																	
LTE 7	ANT4	Left Cheek	0	QPSK	Standa lone	Receiver on	1	99	20850/2510	20.50	20.17	0.349	0.033	1.08	0.377	/			
			0	QPSK		Receiver on	50%	50	20850/2510	20.50	20.07	0.286	0.170	1.10	0.316	/			
		Left Tilt	0	QPSK		Receiver on	1	99	20850/2510	20.50	20.17	0.312	0.020	1.08	0.337	/			
			0	QPSK		Receiver on	50%	50	20850/2510	20.50	20.07	0.246	-0.053	1.10	0.272	/			
		Right Cheek	0	QPSK		Receiver on	1	99	20850/2510	20.50	20.17	0.865	0.025	1.08	0.933	/			
			0	QPSK		Receiver on	1	0	21100/2535	20.50	20.06	0.839	0.100	1.11	0.928	/			
			0	QPSK		Receiver on	1	99	21350/2560	20.50	19.99	0.851	0.028	1.12	0.957	/			
			0	QPSK		Receiver on	50%	50	20850/2510	20.50	20.07	0.817	0.010	1.10	0.902	/			
			0	QPSK		Receiver on	50%	50	21100/2535	20.50	20.03	0.824	-0.090	1.11	0.918	/			
			0	QPSK		Receiver on	50%	50	21350/2560	20.50	19.79	0.802	0.033	1.18	0.944	/			
			0	QPSK		Receiver on	100%	0	20850/2510	20.50	20.01	0.867	-0.130	1.12	0.971	26			
			0	QPSK		Receiver on	100%	0	21100/2535	20.50	19.88	0.814	0.027	1.15	0.939	/			
			0	QPSK		Receiver on	100%	0	21350/2560	20.50	19.70	0.805	0.041	1.20	0.968	/			
			0	QPSK		Receiver on	1	0	21100/2535	20.50	20.06	0.823	0.010	1.11	0.911	/			
			0	QPSK		Receiver on	1	99	21350/2560	20.50	19.99	0.809	0.024	1.12	0.910	/			
			Right Cheek Repeat	0		QPSK	Receiver on	100%	0	20850/2510	20.50	20.01	0.842	0.020	1.12	0.943	/		
			Right Tilt	0		QPSK	Receiver on	1	99	20850/2510	20.50	20.17	0.438	0.068	1.08	0.473	/		
				0		QPSK	Receiver on	50%	50	20850/2510	20.50	20.07	0.415	-0.130	1.10	0.458	/		
		Right Cheek Battery2	0	QPSK		Receiver on	100%	0	20850/2510	20.50	20.01	0.854	0.049	1.12	0.956	/			
		LTE 12	ANT0	Left Cheek		0	QPSK	Standa lone	Receiver on	1	99	20850/2510	17.50	17.26	0.126	-0.043	1.06	0.133	/
						0	QPSK		Receiver on	50%	0	21100/2535	17.50	17.33	0.099	0.020	1.04	0.103	/
				Left Tilt		0	QPSK		Receiver on	1	99	20850/2510	17.50	17.26	0.108	0.080	1.06	0.114	/
						0	QPSK		Receiver on	50%	0	21100/2535	17.50	17.33	0.092	0.038	1.04	0.096	/
				Right Cheek		0	QPSK		Receiver on	1	99	20850/2510	17.50	17.26	0.319	0.035	1.06	0.337	/
						0	QPSK		Receiver on	50%	0	21100/2535	17.50	17.33	0.288	0.057	1.04	0.299	/
				Right Tilt		0	QPSK		Receiver on	1	99	20850/2510	17.50	17.26	0.173	0.034	1.06	0.183	/
						0	QPSK		Receiver on	50%	0	21100/2535	17.50	17.33	0.161	0.021	1.04	0.167	/
LTE 13	ANT0			Left Cheek	0	QPSK	Standa lone		Receiver on	1	0	23060/704	24.00	23.05	0.328	0.031	1.24	0.408	/
					0	QPSK			Receiver on	50%	0	23060/704	23.00	22.05	0.272	0.081	1.24	0.339	/
		Left Tilt	0	QPSK	Receiver on	1		0	23060/704	24.00	23.05	0.338	0.010	1.24	0.421	/			
			0	QPSK	Receiver on	50%		0	23060/704	23.00	22.05	0.275	0.078	1.24	0.342	/			
		Right Cheek	0	QPSK	Receiver on	1		0	23060/704	24.00	23.05	0.426	0.050	1.24	0.530	/			
			0	QPSK	Receiver on	50%		0	23060/704	23.00	22.05	0.383	0.041	1.24	0.477	/			
		Right Tilt	0	QPSK	Receiver on	1		0	23060/704	24.00	23.05	0.362	0.055	1.24	0.451	/			
			0	QPSK	Receiver on	50%		0	23060/704	23.00	22.05	0.284	0.060	1.24	0.353	/			
		Right Cheek Battery2	0	QPSK	Receiver on	1		0	23060/704	24.00	23.05	0.510	0.020	1.24	0.635	27			

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			0	QPSK	Standa lone & ENDC	Receiver on	50%	25	23230/782	22.00	21.22	0.312	0.021	1.20	0.373	/
		Left Tilt	0	QPSK		Receiver on	1	49	23230/782	25.00	24.36	0.704	0.025	1.16	0.816	/
			0	QPSK		Receiver on	50%	25	23230/782	24.00	23.37	0.515	0.070	1.16	0.595	/
		Right Cheek	0	QPSK		Receiver on	1	49	23230/782	25.00	24.36	0.785	0.022	1.16	0.910	/
			0	QPSK		Receiver on	50%	25	23230/782	24.00	23.37	0.615	0.130	1.16	0.711	/
		Right Tilt	0	QPSK		Receiver on	1	49	23230/782	25.00	24.36	0.648	0.010	1.16	0.751	/
			0	QPSK		Receiver on	50%	25	23230/782	24.00	23.37	0.522	0.038	1.16	0.603	/
		Left Cheek Battery2	0	QPSK		Receiver on	1	49	23230/782	25.00	24.36	0.869	0.070	1.16	1.007	28
LTE 48	ANT2	Left Cheek	0	QPSK	Standa lone & ENDC	Receiver on	1	99	56340/3660	20.50	19.34	0.324	-0.028	1.31	0.423	/
			0	QPSK		Receiver on	50%	0	56490/3675	20.50	19.34	0.321	0.060	1.31	0.419	/
		Left Tilt	0	QPSK		Receiver on	1	99	56340/3660	20.50	19.34	0.185	0.011	1.31	0.242	/
			0	QPSK		Receiver on	50%	0	56490/3675	20.50	19.34	0.188	0.025	1.31	0.246	/
		Right Cheek	0	QPSK		Receiver on	1	99	56340/3660	20.50	19.34	0.066	-0.036	1.31	0.086	/
			0	QPSK		Receiver on	50%	0	56490/3675	20.50	19.34	0.065	0.010	1.31	0.085	/
		Right Tilt	0	QPSK		Receiver on	1	99	56340/3660	20.50	19.34	0.070	0.080	1.31	0.091	/
			0	QPSK		Receiver on	50%	0	56490/3675	20.50	19.34	0.066	0.064	1.31	0.086	/
		Left Cheek Battery2	0	QPSK		Receiver on	1	99	56340/3660	20.50	19.34	0.331	0.130	1.31	0.432	29
LTE 66	ANT2	Left Cheek	0	QPSK	Standa lone & ENDC	Receiver on	1	0	132322/1745	20.50	19.62	0.518	0.088	1.22	0.634	30
			0	QPSK		Receiver on	50%	0	132322/1745	20.50	19.63	0.517	0.013	1.22	0.632	/
		Left Tilt	0	QPSK		Receiver on	1	0	132322/1745	20.50	19.62	0.210	0.057	1.22	0.257	/
			0	QPSK		Receiver on	50%	0	132322/1745	20.50	19.63	0.208	0.014	1.22	0.254	/
		Right Cheek	0	QPSK		Receiver on	1	0	132322/1745	20.50	19.62	0.254	0.044	1.22	0.311	/
			0	QPSK		Receiver on	50%	0	132322/1745	20.50	19.63	0.248	-0.015	1.22	0.303	/
		Right Tilt	0	QPSK		Receiver on	1	0	132322/1745	20.50	19.62	0.278	0.038	1.22	0.340	/
			0	QPSK		Receiver on	50%	0	132322/1745	20.50	19.63	0.273	0.050	1.22	0.334	/
		Left Cheek Battery2	0	QPSK		Receiver on	1	0	132322/1745	20.50	19.62	0.510	0.020	1.22	0.625	/
	ANT1	Left Cheek	0	QPSK	ENDC	Receiver on	1	99	132572/1770	23.50	23.04	0.050	0.027	1.11	0.056	/
			0	QPSK		Receiver on	50%	25	132572/1770	23.50	22.00	0.032	0.090	1.41	0.045	/
		Left Tilt	0	QPSK		Receiver on	1	99	132572/1770	23.50	23.04	0.043	0.014	1.11	0.048	/
			0	QPSK		Receiver on	50%	25	132572/1770	23.50	22.00	0.026	0.010	1.41	0.037	/
		Right Cheek	0	QPSK		Receiver on	1	99	132572/1770	23.50	23.04	0.077	0.084	1.11	0.086	/
			0	QPSK		Receiver on	50%	25	132572/1770	23.50	22.00	0.054	0.013	1.41	0.076	/
		Right Tilt	0	QPSK		Receiver on	1	99	132572/1770	23.50	23.04	0.047	-0.070	1.11	0.052	/
			0	QPSK		Receiver on	50%	25	132572/1770	23.50	22.00	0.030	0.060	1.41	0.042	/

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
n2	ANT2	Left Cheek	0	SA	DFT-s-OFDM QPSK	Receiver on	1	1	374000/1870	20.00	18.64	0.820	0.014	1.37	1.122	31
			0			Receiver on	1	1	376000/1880	20.00	18.61	0.790	0.013	1.38	1.088	/
			0			Receiver on	1	1	378000/1890	20.00	18.46	0.757	0.040	1.43	1.079	/
			0			Receiver on	50%	54	378000/1890	20.00	18.78	0.677	0.070	1.32	0.897	/
			0			Receiver on	50%	54	374000/1870	20.00	18.71	0.793	0.035	1.35	1.067	/
			0			Receiver on	50%	54	376000/1880	20.00	18.72	0.737	-0.040	1.34	0.990	/
			0			Receiver on	100%	0	374000/1870	20.00	18.68	0.732	0.030	1.36	0.992	/
			0			Receiver on	100%	0	376000/1880	20.00	18.67	0.696	0.070	1.36	0.945	/
			0			Receiver on	100%	0	378000/1890	20.00	18.66	0.644	0.058	1.36	0.877	/
			0			Receiver on	1	1	374000/1870	20.00	18.64	0.456	0.030	1.37	0.624	/
		Left Tilt	0		DFT-s-OFDM QPSK	Receiver on	50%	54	378000/1890	20.00	18.78	0.363	0.022	1.32	0.481	/
			0			Receiver on	1	1	374000/1870	20.00	18.64	0.311	0.038	1.37	0.425	/
		Right Cheek	0	SA	DFT-s-OFDM QPSK	Receiver on	50%	54	378000/1890	20.00	18.78	0.308	-0.029	1.32	0.408	/
			0			Receiver on	1	1	374000/1870	20.00	18.64	0.784	0.070	1.37	1.072	/
		Left Cheek Batter y2	0	SA&NSA	CP-OFDM QPSK	Receiver on	1	1	374000/1870	20.00	18.64	0.784	0.070	1.37	1.072	/
		Left Cheek	0			Receiver on	1	1	376000/1880	20.00	18.70	0.759	0.011	1.35	1.024	/
		Right Tilt	0	SA&NSA	CP-OFDM QPSK	Receiver on	1	1	374000/1870	20.00	18.64	0.320	0.030	1.37	0.438	/
			0			Receiver on	50%	54	378000/1890	20.00	18.78	0.302	0.026	1.32	0.400	/
		Left Cheek	0	NSA	DFT-s-OFDM QPSK	Receiver on	1	1	376000/1880	17.50	16.47	0.518	0.060	1.27	0.657	/
			0			Receiver on	50%	54	376000/1880	17.50	16.44	0.501	0.020	1.28	0.639	/
		Left Tilt	0			Receiver on	1	1	376000/1880	17.50	16.47	0.318	-0.070	1.27	0.403	/
			0			Receiver on	50%	54	376000/1880	17.50	16.44	0.283	0.033	1.28	0.361	/
		Right Cheek	0			Receiver on	1	1	376000/1880	17.50	16.47	0.245	0.016	1.27	0.311	/
			0			Receiver on	50%	54	376000/1880	17.50	16.44	0.234	0.020	1.28	0.299	/
		Right Tilt	0		DFT-s-OFDM QPSK	Receiver on	1	214	378000/1890	23.50	22.35	0.122	0.037	1.30	0.159	/
			0			Receiver on	50%	54	374000/1870	23.50	22.40	0.112	-0.092	1.29	0.144	/
			0			Receiver on	1	214	378000/1890	23.50	22.35	0.062	-0.040	1.30	0.081	/
			0			Receiver on	50%	54	374000/1870	23.50	22.40	0.056	0.038	1.29	0.072	/
			0			Receiver on	1	214	378000/1890	23.50	22.35	0.193	-0.040	1.30	0.252	/
			0			Receiver on	50%	54	374000/1870	23.50	22.40	0.176	0.120	1.29	0.227	/
			0			Receiver on	1	214	378000/1890	23.50	22.35	0.109	0.068	1.30	0.142	/
			0			Receiver on	50%	54	374000/1870	23.50	22.40	0.061	0.027	1.29	0.079	/
n5	ANT0	Left Cheek	0	SA&NSA	DFT-s-OFDM QPSK	Receiver on	1	1	167800/839	23.50	22.40	0.452	0.025	1.29	0.582	/
			0			Receiver on	50%	25	166800/834	23.50	22.83	0.484	0.011	1.17	0.565	/
		Left Tilt	0			Receiver on	1	1	167800/839	23.50	22.40	0.452	-0.040	1.29	0.582	/
			0			Receiver on	50%	25	166800/834	23.50	22.83	0.493	0.010	1.17	0.575	/
		Right Cheek	0			Receiver on	1	1	167800/839	23.50	22.40	0.545	0.012	1.29	0.702	/
			0			Receiver on	50%	25	166800/834	23.50	22.83	0.586	0.019	1.17	0.684	/
		Right Tilt	0			Receiver on	1	1	167800/839	23.50	22.40	0.545	0.012	1.29	0.702	/
			0			Receiver on	50%	25	166800/834	23.50	22.83	0.586	0.019	1.17	0.684	/

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		Right Tilt	0			Receiver on	1	1	167800/839	23.50	22.40	0.545	0.031	1.29	0.702	/				
			0			Receiver on	50%	25	166800/834	23.50	22.83	0.605	0.010	1.17	0.706	/				
		Right Tilt Battery2	0			Receiver on	50%	25	166800/834	23.50	22.83	0.683	0.110	1.17	0.797	32				
n48	ANT2	Left Cheek	0	SA	DFT-s-OFDM QPSK	Receiver on	1	1	643332/3649.98	21.00	19.78	0.679	0.030	1.32	0.899	/				
			0			Receiver on	1	1	640000/3600	21.00	19.28	0.665	0.010	1.49	0.988	/				
			0			Receiver on	1	1	641666/3624.99	21.00	19.66	0.690	-0.046	1.36	0.939	/				
			0			Receiver on	50%	67	640000/3600	21.00	19.78	0.752	0.030	1.32	0.996	/				
			0			Receiver on	50%	67	641666/3624.99	21.00	19.47	0.683	0.017	1.42	0.971	/				
			0			Receiver on	50%	67	643332/3649.98	21.00	19.22	0.657	0.040	1.51	0.990	/				
			0			Receiver on	100%	0	640000/3600	21.00	19.61	0.680	0.190	1.38	0.937	/				
			0			Receiver on	100%	0	641666/3624.99	21.00	19.49	0.687	0.050	1.42	0.973	/				
			0			Receiver on	100%	0	643332/3649.98	21.00	19.39	0.673	-0.180	1.45	0.975	/				
			0			Receiver on	1	1	643332/3649.98	21.00	19.78	0.480	0.050	1.32	0.636	/				
		Left Tilt	0			Receiver on	50%	67	640000/3600	21.00	19.78	0.469	0.015	1.32	0.621	/				
			0			Receiver on	1	1	643332/3649.98	21.00	19.78	0.167	0.080	1.32	0.221	/				
		Right Cheek	0			Receiver on	50%	67	640000/3600	21.00	19.78	0.169	0.013	1.32	0.224	/				
			0			Receiver on	1	1	643332/3649.98	21.00	19.78	0.147	0.040	1.32	0.195	/				
		Right Tilt	0			Receiver on	50%	67	640000/3600	21.00	19.78	0.158	0.059	1.32	0.209	/				
			0			Receiver on	50%	67	640000/3600	21.00	19.78	0.796	0.110	1.32	1.054	33				
		Left Cheek Battery2	0			Receiver on	50%	67	640000/3600	21.00	19.78	0.796	0.110	1.32	1.054	33				
			0			Receiver on	50%	67	640000/3600	21.00	19.78	0.796	0.110	1.32	1.054	33				
		n66	ANT2			Left Cheek	0	SA	DFT-s-OFDM QPSK	Receiver on	1	1	352000/1760	21.00	19.93	0.615	0.180	1.28	0.787	/
							0			Receiver on	50%	54	349000/1745	21.00	20.09	0.657	0.050	1.23	0.810	/
0	Receiver on			50%	54		346000/1730			21.00	19.97	0.649	0.060	1.27	0.823	/				
0	Receiver on			50%	54		352000/1760			21.00	19.78	0.684	0.030	1.32	0.906	34				
0	Receiver on			100%	0		349000/1745			21.00	19.93	0.653	-0.170	1.28	0.835	/				
0	Receiver on			100%	0		346000/1730			21.00	19.89	0.647	0.048	1.29	0.835	/				
0	Receiver on			100%	0		352000/1760			21.00	19.74	0.655	0.061	1.34	0.875	/				
0	Receiver on			1	1		352000/1760			17.50	16.59	0.430	0.064	1.23	0.530	/				
Left Cheek	0			NSA	Receiver on	50%	54	346000/1730		17.50	16.53	0.441	-0.071	1.25	0.551	/				
	0				Receiver on	1	1	352000/1760		21.00	19.93	0.324	0.070	1.28	0.415	/				
Left Tilt	0			SA&NSA	Receiver on	50%	54	349000/1745		21.00	20.09	0.346	0.045	1.23	0.427	/				
	0				Receiver on	1	1	352000/1760		21.00	19.93	0.214	0.070	1.28	0.274	/				
Right Cheek	0				Receiver on	50%	54	349000/1745		21.00	20.09	0.219	0.035	1.23	0.270	/				
	0				Receiver on	1	1	352000/1760		21.00	19.93	0.226	0.030	1.28	0.289	/				
Right Tilt	0				Receiver on	50%	54	349000/1745		21.00	20.09	0.232	0.060	1.23	0.286	/				
	0				Receiver on	50%	54	349000/1745		21.00	20.09	0.232	0.060	1.23	0.286	/				
Left Cheek Battery2	0				SA	Receiver on	50%	54		352000/1760	21.00	19.78	0.655	0.049	1.32	0.867	/			
	0					Receiver on	50%	54		352000/1760	21.00	19.78	0.655	0.049	1.32	0.867	/			
ANT1	Left Cheek		0	NSA	DFT-s-OFDM QPSK	Receiver on	1	214	346000/1730	23.50	22.70	0.028	-0.040	1.20	0.034	/				
			0			Receiver on	50%	54	349000/1745	23.50	22.81	0.027	0.003	1.17	0.032	/				
	Left Tilt		0			Receiver on	1	214	346000/1730	23.50	22.70	0.016	0.080	1.20	0.019	/				
			0			Receiver on	50%	54	349000/1745	23.50	22.81	0.015	0.024	1.17	0.018	/				
	Right Cheek		0			Receiver on	1	214	346000/1730	23.50	22.70	0.046	0.018	1.20	0.055	/				
			0			Receiver on	1	214	346000/1730	23.50	22.70	0.046	0.018	1.20	0.055	/				

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		Right Tilt	0			Receiver on	50%	54	349000/1745	23.50	22.81	0.045	0.012	1.17	0.053	/
			0			Receiver on	1	214	346000/1730	23.50	22.70	0.032	0.027	1.20	0.038	/
			0			Receiver on	50%	54	349000/1745	23.50	22.81	0.033	0.024	1.17	0.039	/
n77 PC2	ANT2	Left Cheek	0	SA&NSA	DFT-s-OFDM QPSK	Receiver on	1	271	633332/3500	18.00	17.09	0.469	0.150	1.23	0.578	/
			0			Receiver on	50%	67	633332/3500	18.00	16.90	0.474	0.077	1.29	0.611	/
		Left Tilt	0			Receiver on	1	271	633332/3500	18.00	17.09	0.327	0.046	1.23	0.403	/
			0			Receiver on	50%	67	633332/3500	18.00	16.90	0.324	0.049	1.29	0.417	/
		Right Cheek	0			Receiver on	1	271	633332/3500	18.00	17.09	0.117	0.090	1.23	0.144	/
			0			Receiver on	50%	67	633332/3500	18.00	16.90	0.112	-0.053	1.29	0.144	/
		Right Tilt	0			Receiver on	1	271	633332/3500	18.00	17.09	0.089	0.029	1.23	0.110	/
			0			Receiver on	50%	67	633332/3500	18.00	16.90	0.095	0.120	1.29	0.122	/
		Left Cheek	0			Receiver on	1	271	662000/3930	18.00	17.11	0.625	0.010	1.23	0.767	/
			0			Receiver on	50%	67	662000/3930	18.00	17.29	0.673	-0.038	1.18	0.793	35
		Left Cheek Battery2	0			Receiver on	50%	67	662000/3930	18.00	17.29	0.512	0.053	1.18	0.603	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
2.4G	ANT7	Left Cheek	0	11b	Standalone	100.0%	Receiver on	6/2437	18.50	18.02	0.702	0.190	1.12	0.784	/
		Left Tilt	0	11b		100.0%	Receiver on	6/2437	18.50	18.02	0.509	0.040	1.12	0.568	/
		Right Cheek	0	11b		100.0%	Receiver on	6/2437	18.50	18.02	0.304	0.047	1.12	0.340	/
		Right Tilt	0	11b		100.0%	Receiver on	6/2437	18.50	18.02	0.254	-0.064	1.12	0.284	/
		Left Cheek Battery2	0	11b		100.0%	Receiver on	6/2437	18.50	18.02	0.734	0.090	1.12	0.820	36
		Left Cheek	0	11b	Simultaneous Transmission	100.0%	Receiver on	6/2437	9.50	8.68	0.062	0.180	1.21	0.075	/
		Left Tilt	0	11b		100.0%	Receiver on	6/2437	9.50	8.68	0.068	0.070	1.21	0.082	/
		Right Cheek	0	11b		100.0%	Receiver on	6/2437	9.50	8.68	0.032	0.048	1.21	0.039	/
		Right Tilt	0	11b		100.0%	Receiver on	6/2437	9.50	8.68	0.025	0.031	1.21	0.030	/
U-NII-2A	ANT7	Left Cheek	0	11a	Standalone	100.0%	Receiver on	60/5300	13.50	13.08	0.304	0.012	1.10	0.335	/
		Left Tilt	0	11a		100.0%	Receiver on	60/5300	13.50	13.08	0.502	0.010	1.10	0.553	/
		Right Cheek	0	11a		100.0%	Receiver on	60/5300	13.50	13.08	0.271	0.050	1.10	0.299	/
		Right Tilt	0	11a		100.0%	Receiver on	60/5300	13.50	13.08	0.376	0.025	1.10	0.414	/
		Left Tilt Battery2	0	11a		100.0%	Receiver on	60/5300	13.50	13.08	0.567	0.020	1.10	0.625	/
		Left Cheek	0	11a	Simultaneous Transmission	100.0%	Receiver on	64/5320	10.00	9.10	0.051	-0.070	1.23	0.063	/
		Left Tilt	0	11a		100.0%	Receiver on	64/5320	10.00	9.10	0.099	0.079	1.23	0.122	/
		Right Cheek	0	11a		100.0%	Receiver on	64/5320	10.00	9.10	0.080	0.062	1.23	0.098	/
U-NII-2C	ANT7	Left Cheek	0	11a	Standalone	100.0%	Receiver on	116/5580	13.50	13.18	0.475	0.080	1.08	0.511	/
		Left Tilt	0	11a		100.0%	Receiver on	116/5580	13.50	13.18	0.576	0.070	1.08	0.620	/
		Right Cheek	0	11a		100.0%	Receiver on	116/5580	13.50	13.18	0.416	0.063	1.08	0.448	/
		Right Tilt	0	11a		100.0%	Receiver on	116/5580	13.50	13.18	0.492	0.017	1.08	0.530	/
		Left Tilt Battery2	0	11a		100.0%	Receiver on	116/5580	13.50	13.18	0.649	0.170	1.08	0.699	37

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		Left Cheek	0	11a	Simultaneous Transmission	100.0%	Receiver on	100/5500	10.00	9.27	0.047	0.027	1.18	0.056	/
		Left Tilt	0	11a		100.0%	Receiver on	100/5500	10.00	9.27	0.093	0.080	1.18	0.110	/
		Right Cheek	0	11a		100.0%	Receiver on	100/5500	10.00	9.27	0.090	0.020	1.18	0.106	/
		Right Tilt	0	11a		100.0%	Receiver on	100/5500	10.00	9.27	0.104	0.050	1.18	0.123	/
U-NII-3	ANT7	Left Cheek	0	11a	Standalone	100.0%	Receiver on	149/5745	13.50	13.25	0.383	0.120	1.06	0.406	/
		Left Tilt	0	11a		100.0%	Receiver on	149/5745	13.50	13.25	0.448	0.029	1.06	0.475	/
		Right Cheek	0	11a		100.0%	Receiver on	149/5745	13.50	13.25	0.289	0.087	1.06	0.306	/
		Right Tilt	0	11a		100.0%	Receiver on	149/5745	13.50	13.25	0.354	0.081	1.06	0.375	/
		Left Tilt Battery2	0	11a		100.0%	Receiver on	149/5745	13.50	13.25	0.415	0.190	1.06	0.440	/
		Left Cheek	0	11a	Simultaneous Transmission	100.0%	Receiver on	157/5785	10.00	9.26	0.023	0.041	1.19	0.027	/
		Left Tilt	0	11a		100.0%	Receiver on	157/5785	10.00	9.26	0.060	-0.150	1.19	0.071	/
		Right Cheek	0	11a		100.0%	Receiver on	157/5785	10.00	9.26	0.063	0.035	1.19	0.075	/
		Right Tilt	0	11a		100.0%	Receiver on	157/5785	10.00	9.26	0.069	-0.022	1.19	0.082	/
Bluetooth	ANT7	Left Cheek	0	DH5	Standalone& Simultaneous Transmission	76.8%	Normal Power	39/2441	9.50	8.06	0.076	0.140	1.81	0.138	/
		Left Tilt	0	DH5		76.8%	Normal Power	39/2441	9.50	8.06	0.065	0.016	1.81	0.118	/
		Right Cheek	0	DH5		76.8%	Normal Power	39/2441	9.50	8.06	0.037	0.029	1.81	0.067	/
		Right Tilt	0	DH5		76.8%	Normal Power	39/2441	9.50	8.06	0.029	0.040	1.81	0.053	/
		Left Cheek Battery2	0	DH5		76.8%	Normal Power	39/2441	9.50	8.06	0.084	-0.063	1.81	0.153	38

Body-worn SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
GSM 850	ANT0	Back Side	15	GSM	Standalone	Receiver off	N/A	N/A	190/836.6	32.50	32.07	0.185	0.037	1.10	0.204	/
		Front Side	15	GSM		Receiver off	N/A	N/A	190/836.6	32.50	32.07	0.137	0.014	1.10	0.151	/
		Back Side Battery2	15	GSM		Receiver off	N/A	N/A	190/836.6	32.50	32.07	0.201	-0.034	1.10	0.222	39
GSM 1900	ANT2	Back Side	15	GSM	Standalone	Receiver off	N/A	N/A	661/1880	30.00	28.48	0.126	0.035	1.42	0.179	40
		Front Side	15	GSM		Receiver off	N/A	N/A	661/1880	30.00	28.48	0.095	-0.030	1.42	0.135	/
		Back Side Battery2	15	GSM		Receiver off	N/A	N/A	661/1880	30.00	28.48	0.121	0.026	1.42	0.172	/
WCDMA II	ANT2	Back Side	15	RMC	Standalone	Receiver off	N/A	N/A	9400/1880	23.00	21.22	0.324	0.023	1.51	0.488	41
		Front Side	15	RMC		Receiver off	N/A	N/A	9400/1880	23.00	21.22	0.255	0.070	1.51	0.384	/
		Back Side Battery2	15	GSM		Receiver off	N/A	N/A	9400/1880	23.00	21.22	0.275	0.019	1.51	0.414	/
LTE 2	ANT2	Back Side	15	QPSK	Standalone & ENDC	Receiver off	1	99	18900/1880	23.50	22.40	0.331	0.030	1.29	0.426	/
			15	QPSK		Receiver off	50%	25	18900/1880	23.50	22.39	0.355	0.026	1.29	0.458	42
		Front Side	15	QPSK		Receiver off	1	99	18900/1880	23.50	22.40	0.244	-0.060	1.29	0.314	/
			15	QPSK		Receiver off	50%	25	18900/1880	23.50	22.39	0.263	0.160	1.29	0.340	/
	ANT1	Back Side	15	QPSK	ENDC	Receiver off	1	50	18700/1860	22.50	21.37	0.284	0.180	1.30	0.368	/
			15	QPSK		Receiver off	50%	25	18700/1860	22.50	21.34	0.287	-0.025	1.31	0.375	/
		Front Side	15	QPSK		Receiver off	1	50	18700/1860	22.50	21.37	0.178	0.080	1.30	0.231	/
			15	QPSK		Receiver off	50%	25	18700/1860	22.50	21.34	0.202	0.021	1.31	0.264	/
LTE 7	ANT4	Back Side	15	QPSK	Standalone	Receiver off	1	99	20850/2510	21.50	21.18	0.517	0.025	1.08	0.557	/
			15	QPSK		Receiver off	50%	50	20850/2510	21.50	21.07	0.604	-0.040	1.10	0.667	43
		Front Side	15	QPSK		Receiver off	1	99	20850/2510	21.50	21.18	0.304	-0.090	1.08	0.327	/
			15	QPSK		Receiver off	50%	50	20850/2510	21.50	21.07	0.358	0.022	1.10	0.395	/
		Back Side Battery2	15	QPSK	ENDC	Receiver off	50%	50	20850/2510	21.50	21.07	0.601	0.019	1.10	0.664	/
			15	QPSK		Receiver off	1	99	20850/2510	19.50	19.31	0.416	0.050	1.04	0.435	/
		Back Side	15	QPSK		Receiver off	50%	50	20850/2510	19.50	19.30	0.432	0.040	1.05	0.452	44
			15	QPSK		Receiver off	1	99	20850/2510	19.50	19.31	0.164	0.010	1.04	0.171	/
LTE 48	ANT2	Back Side	15	QPSK	Standalone & ENDC	Receiver off	1	50	56340/3660	23.50	22.27	0.218	0.109	1.33	0.289	/
			15	QPSK		Receiver off	50%	0	56490/3675	23.50	22.34	0.208	0.023	1.31	0.272	/
		Front Side	15	QPSK		Receiver off	1	50	56340/3660	23.50	22.27	0.065	0.100	1.33	0.086	/
			15	QPSK		Receiver off	50%	0	56490/3675	23.50	22.34	0.069	0.028	1.31	0.090	/
		Back Side Battery2	15	QPSK		Receiver off	1	50	56340/3660	23.50	22.27	0.313	0.077	1.33	0.415	45
			15	QPSK		Receiver off	1	50	56340/3660	23.50	22.27	0.313	0.077	1.33	0.415	45

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		Back Side	15	QPSK		Receiver off	1	99	56340/3660	23.50	22.32	0.225	-0.027	1.31	0.295	/
							1	0	56538/3679.8							
LTE 66	ANT2	Back Side	15	QPSK	Standa lone & ENDC	Receiver off	1	0	132322/1745	23.50	22.66	0.296	0.150	1.21	0.359	/
			15	QPSK		Receiver off	50%	0	132322/1745	23.50	22.65	0.299	0.190	1.22	0.364	46
		Front Side	15	QPSK		Receiver off	1	0	132322/1745	23.50	22.66	0.200	0.011	1.21	0.243	/
			15	QPSK		Receiver off	50%	0	132322/1745	23.50	22.65	0.195	0.170	1.22	0.237	/
		Back Side Battery2	15	QPSK		Receiver off	50%	0	132322/1745	23.50	22.65	0.244	0.190	1.22	0.297	/
	ANT1	Back Side	15	QPSK	ENDC	Receiver off	1	99	132572/1770	22.50	21.54	0.111	0.065	1.25	0.138	/
			15	QPSK		Receiver off	50%	25	132572/1770	22.50	21.49	0.095	0.018	1.26	0.120	/
		Front Side	15	QPSK		Receiver off	1	99	132572/1770	22.50	21.54	0.064	0.080	1.25	0.080	/
			15	QPSK		Receiver off	50%	25	132572/1770	22.50	21.49	0.054	0.130	1.26	0.068	/

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
n2	ANT2	Back Side	15	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	1	374000/1870	24.00	22.61	0.478	0.070	1.38	0.658	/
			15			Receiver off	50%	54	378000/1890	24.00	22.75	0.537	0.024	1.33	0.716	47
		Front Side	15			Receiver off	1	1	374000/1870	24.00	22.61	0.325	-0.016	1.38	0.448	/
			15			Receiver off	50%	54	378000/1890	24.00	22.75	0.381	0.027	1.33	0.508	/
	ANT1	Back Side	15	NSA	DFT-s-OFDM QPSK	Receiver off	1	214	378000/1890	22.50	21.04	0.243	0.021	1.40	0.340	/
			15			Receiver off	50%	54	374000/1870	22.50	21.11	0.257	-0.052	1.38	0.354	/
		Front Side	15			Receiver off	1	214	378000/1890	22.50	21.04	0.165	0.020	1.40	0.231	/
			15			Receiver off	50%	54	374000/1870	22.50	21.11	0.169	0.019	1.38	0.233	/
	ANT2	Back Side Battery2	15	SA&NSA		Receiver off	50%	54	378000/1890	24.00	22.75	0.468	0.041	1.33	0.624	/
n48	ANT2	Back Side	15	SA	DFT-s-OFDM QPSK	Receiver off	1	1	643332/3649.98	23.00	21.97	0.588	0.130	1.27	0.745	48
			15			Receiver off	50%	67	640000/3600	23.00	21.90	0.577	0.016	1.29	0.743	/
		Front Side	15			Receiver off	1	1	643332/3649.98	23.00	21.97	0.233	0.075	1.27	0.295	/
			15			Receiver off	50%	67	640000/3600	23.00	21.90	0.209	0.029	1.29	0.269	/
		Back Side Battery2	15			Receiver off	1	1	643332/3649.98	23.00	21.97	0.509	-0.120	1.27	0.645	/
		Back Side	15	SA	CP-OFDM M QPSK	Receiver off	1	1	643332/3649.98	22.50	21.38	0.239	0.045	1.29	0.309	/
n66	ANT2	Back Side	15	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	1	352000/1760	24.00	22.89	0.355	0.098	1.29	0.458	/
			15			Receiver off	50%	54	349000/1745	24.00	23.08	0.358	0.014	1.24	0.442	49
		Front Side	15			Receiver off	1	1	352000/1760	24.00	22.11	0.263	0.026	1.55	0.406	/
			15			Receiver off	50%	54	349000/1745	24.00	22.00	0.234	-0.019	1.58	0.371	/
		Back Side Battery2	15			Receiver off	50%	54	349000/1745	24.00	23.08	0.277	0.140	1.24	0.342	/
	ANT1	Back Side	15	NSA	DFT-s-OFDM QPSK	Receiver off	1	214	346000/1730	22.50	22.11	0.078	0.120	1.09	0.085	/
			15			Receiver off	50%	54	346000/1730	22.50	22.00	0.117	-0.036	1.12	0.131	/
		Front Side	15			Receiver off	1	214	346000/1730	22.50	22.11	0.048	-0.090	1.09	0.053	/
			15			Receiver off	50%	54	346000/1730	22.50	22.00	0.043	0.010	1.12	0.048	/

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n77 PC2	ANT2	Back Side	15	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	271	633332/3500	20.00	19.07	0.333	0.091	1.24	0.413	/
			15			Receiver off	50%	67	633332/3500	20.00	18.77	0.331	0.029	1.33	0.439	/
		Front Side	15			Receiver off	1	271	633332/3500	20.00	19.07	0.149	0.072	1.24	0.185	/
			15			Receiver off	50%	67	633332/3500	20.00	18.77	0.116	0.040	1.33	0.154	/
		Back Side	15			Receiver off	1	271	662000/3930	20.00	19.11	0.414	-0.080	1.23	0.508	50
			15			Receiver off	50%	67	662000/3930	20.00	19.11	0.407	-0.028	1.23	0.500	/
		Back Side Battery2	15			Receiver off	1	271	662000/3930	20.00	19.11	0.234	0.021	1.23	0.287	/
			15			Receiver off	1	271	662000/3930	20.00	19.11	0.234	0.021	1.23	0.287	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
2.4G	ANT7	Back Side	15	11b	Standalone& Simultaneous Transmission	100.0%	Receiver off	6/2437	18.50	18.02	0.088	0.026	1.12	0.098	/
		Front Side	15	11b		100.0%	Receiver off	6/2437	18.50	18.02	0.058	0.018	1.12	0.065	/
		Back Side Battery2	15	11b		100.0%	Receiver off	6/2437	18.50	18.02	0.114	0.050	1.12	0.127	51
U-NII-2A	ANT7	Back Side	15	11a	Standalone	100.0%	Receiver off	60/5300	18.00	16.95	0.398	0.100	1.27	0.507	/
		Back Side Battery2	15	11a	Standalone	100.0%	Receiver off	60/5300	18.00	16.95	0.481	0.038	1.27	0.613	/
		Back Side	15	11a	Standalone& Simultaneous Transmission	100.0%	Receiver off	60/5300	11.00	9.98	0.082	0.124	1.26	0.104	/
		Front Side	15	11a		100.0%	Receiver off	60/5300	18.00	16.95	0.117	0.016	1.27	0.149	/
U-NII-2C	ANT7	Back Side	15	11a	Standalone	100.0%	Receiver off	116/5580	18.00	17.39	0.521	0.024	1.15	0.600	/
		Back Side Battery2	15	11a		100.0%	Receiver off	116/5580	18.00	17.39	0.597	-0.042	1.15	0.687	52
		Back Side	15	11a	Standalone& Simultaneous Transmission	100.0%	Receiver off	116/5580	11.00	10.13	0.087	0.099	1.22	0.106	/
		Front Side	15	11a		100.0%	Receiver off	116/5580	18.00	17.39	0.201	0.024	1.15	0.231	/
U-NII-3	ANT7	Back Side	15	11a	Standalone	100.0%	Receiver off	149/5745	18.00	17.39	0.283	0.010	1.15	0.326	/
		Back Side Battery2	15	11a		100.0%	Receiver off	149/5745	18.00	17.39	0.298	0.077	1.15	0.343	/
		Back Side	15	11a	Standalone& Simultaneous Transmission	100.0%	Receiver off	149/5745	11.00	10.47	0.076	0.010	1.13	0.086	/
		Front Side	15	11a		100.0%	Receiver off	149/5745	18.00	17.39	0.183	0.039	1.15	0.211	/

Hotspot SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
GSM850	ANT0	Back Side	10	3TX Slots	Standa lone	Hotspot on	N/A	N/A	190/836.6	30.50	30.31	0.562	-0.030	1.04	0.587	53
		Front Side	10	3TX Slots		Hotspot on	N/A	N/A	190/836.6	30.50	30.31	0.344	0.068	1.04	0.359	/
		Left Edge	10	3TX Slots		Hotspot on	N/A	N/A	190/836.6	30.50	30.31	0.232	0.018	1.04	0.242	/
		Right Edge	10	3TX Slots		Hotspot on	N/A	N/A	190/836.6	30.50	30.31	0.128	0.024	1.04	0.134	/
		Top Edge	10	3TX Slots		Hotspot on	N/A	N/A	190/836.6	30.50	30.31	0.545	-0.030	1.04	0.569	/
		Bottom Edge	10	3TX Slots		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10	3TX Slots		Hotspot on	N/A	N/A	190/836.6	30.50	30.31	0.551	0.026	1.04	0.576	/
GSM1900	ANT2	Back Side	10	4TX Slots	Standa lone	Hotspot on	N/A	N/A	661/1880	26.50	25.04	0.568	0.010	1.40	0.795	/
		Front Side	10	4TX Slots		Hotspot on	N/A	N/A	661/1880	26.50	25.04	0.345	0.030	1.40	0.483	/
		Left Edge	10	4TX Slots		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	4TX Slots		Hotspot on	N/A	N/A	661/1880	26.50	25.04	0.345	0.013	1.40	0.483	/
		Top Edge	10	4TX Slots		Hotspot on	N/A	N/A	661/1880	26.50	25.04	0.324	0.016	1.40	0.453	/
		Bottom Edge	10	4TX Slots		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10	4TX Slots		Hotspot on	N/A	N/A	661/1880	26.50	25.04	0.584	0.140	1.40	0.817	54
WCDMA II	ANT2	Back Side	10	RMC	Standa lone	Hotspot on	N/A	N/A	9400/1880	23.00	21.22	0.479	0.140	1.51	0.722	55
		Front Side	10	RMC		Hotspot on	N/A	N/A	9400/1880	23.00	21.22	0.297	0.020	1.51	0.447	/
		Left Edge	10	RMC		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	RMC		Hotspot on	N/A	N/A	9400/1880	23.00	21.22	0.310	0.090	1.51	0.467	/
		Top Edge	10	RMC		Hotspot on	N/A	N/A	9400/1880	23.00	21.22	0.275	0.050	1.51	0.414	/
		Bottom Edge	10	RMC		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10	RMC		Hotspot on	N/A	N/A	9400/1880	23.00	21.22	0.466	0.011	1.51	0.702	/
WCDMA V	ANT0	Back Side	10	RMC	Standa lone	Hotspot on	N/A	N/A	4183/836.6	23.50	22.56	0.328	0.013	1.24	0.407	/
		Front Side	10	RMC		Hotspot on	N/A	N/A	4183/836.6	23.50	22.56	0.212	0.021	1.24	0.263	/
		Left Edge	10	RMC		Hotspot on	N/A	N/A	4183/836.6	23.50	22.56	0.135	0.025	1.24	0.168	/
		Right Edge	10	RMC		Hotspot on	N/A	N/A	4183/836.6	23.50	22.56	0.076	0.022	1.24	0.094	/
		Top Edge	10	RMC		Hotspot on	N/A	N/A	4183/836.6	23.50	22.56	0.349	-0.130	1.24	0.433	56
		Bottom Edge	10	RMC		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge Battery2	10	RMC		Hotspot on	N/A	N/A	4183/836.6	23.50	22.56	0.305	0.015	1.24	0.379	/
LTE 2	ANT2	Back Side	10	QPSK	Standa lone & ENDC	Hotspot on	1	0	18700/1860	22.50	21.35	0.464	0.150	1.30	0.605	/
			10	QPSK		Hotspot on	50%	0	19100/1900	22.50	21.33	0.474	0.033	1.31	0.621	/
		Front Side	10	QPSK		Hotspot on	1	0	18700/1860	22.50	21.35	0.315	0.030	1.30	0.410	/
			10	QPSK		Hotspot on	50%	0	19100/1900	22.50	21.33	0.269	0.014	1.31	0.352	/
		Left Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	QPSK		Hotspot on	1	0	18700/1860	22.50	21.35	0.361	0.060	1.30	0.470	/

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LTE 5	ANT1	Top Edge	10	QPSK	ENDC	Hotspot on	50%	0	19100/1900	22.50	21.33	0.313	0.033	1.31	0.410	/
			10	QPSK		Hotspot on	1	0	18700/1860	22.50	21.35	0.298	0.021	1.30	0.388	/
			10	QPSK		Hotspot on	50%	0	19100/1900	22.50	21.33	0.297	-0.070	1.31	0.389	/
		Bottom Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side	10	QPSK		Hotspot on	1	50	18700/1860	20.50	19.39	0.378	0.120	1.29	0.488	/
			10	QPSK		Hotspot on	50%	25	18700/1860	20.50	19.55	0.407	0.068	1.24	0.507	/
		Front Side	10	QPSK		Hotspot on	1	50	18700/1860	20.50	19.39	0.238	-0.140	1.29	0.307	/
			10	QPSK		Hotspot on	50%	25	18700/1860	20.50	19.55	0.185	0.014	1.24	0.230	/
		Left Edge	10	QPSK		Hotspot on	1	50	18700/1860	20.50	19.39	0.001	0.050	1.29	0.001	/
			10	QPSK		Hotspot on	50%	25	18700/1860	20.50	19.55	0.001	-0.100	1.24	0.001	/
		Right Edge	10	QPSK		Hotspot on	1	50	18700/1860	20.50	19.39	0.159	0.012	1.29	0.205	/
			10	QPSK		Hotspot on	50%	25	18700/1860	20.50	19.55	0.156	0.070	1.24	0.194	/
		Top Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK		Hotspot on	1	50	18700/1860	20.50	19.39	0.548	0.048	1.29	0.708	/
			10	QPSK		Hotspot on	50%	25	18700/1860	20.50	19.55	0.602	-0.050	1.24	0.749	57
		Bottom Edge Battery2	10	QPSK		Hotspot on	50%	25	18700/1860	20.50	19.55	0.485	-0.100	1.24	0.604	/
LTE 5	ANT0	Back Side	10	QPSK	Standalone & ENDC	Hotspot on	1	49	20450/829	25.00	24.53	0.442	0.140	1.11	0.493	/
			10	QPSK		Hotspot on	50%	25	20450/829	24.00	23.51	0.326	0.039	1.12	0.365	/
		Front Side	10	QPSK		Hotspot on	1	49	20450/829	25.00	24.53	0.277	-0.040	1.11	0.309	/
			10	QPSK		Hotspot on	50%	25	20450/829	24.00	23.51	0.215	0.038	1.12	0.241	/
		Left Edge	10	QPSK		Hotspot on	1	49	20450/829	25.00	24.53	0.189	0.022	1.11	0.211	/
			10	QPSK		Hotspot on	50%	25	20450/829	24.00	23.51	0.144	0.070	1.12	0.161	/
		Right Edge	10	QPSK		Hotspot on	1	49	20450/829	25.00	24.53	0.108	0.130	1.11	0.120	/
			10	QPSK		Hotspot on	50%	25	20450/829	24.00	23.51	0.079	0.028	1.12	0.088	/
		Top Edge	10	QPSK		Hotspot on	1	49	20450/829	25.00	24.53	0.470	-0.028	1.11	0.524	58
			10	QPSK		Hotspot on	50%	25	20450/829	24.00	23.51	0.352	0.011	1.12	0.394	/
		Bottom Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge Battery2	10	QPSK		Hotspot on	1	49	20450/829	25.00	24.53	0.424	0.035	1.11	0.472	/
LTE 7	ANT4	Back Side	10	QPSK	Standalone	Hotspot on	1	99	20850/2510	20.50	20.17	0.905	0.012	1.08	0.976	/
			10	QPSK		Hotspot on	1	0	21100/2535	20.50	20.06	0.774	0.027	1.11	0.857	/
			10	QPSK		Hotspot on	1	99	21350/2560	20.50	19.99	0.592	-0.060	1.12	0.666	/
			10	QPSK		Hotspot on	50%	50	20850/2510	20.50	20.07	0.999	0.010	1.10	1.103	/
			10	QPSK		Hotspot on	50%	50	21100/2535	20.50	20.03	0.734	0.030	1.11	0.818	/
			10	QPSK		Hotspot on	50%	50	21350/2560	20.50	19.79	0.608	0.021	1.18	0.716	/
			10	QPSK		Hotspot on	100%	0	20850/2510	20.50	20.01	1.130	-0.048	1.12	1.265	59
			10	QPSK		Hotspot on	100%	0	21100/2535	20.50	19.88	0.785	-0.039	1.15	0.905	/
			10	QPSK		Hotspot on	100%	0	21350/2560	20.50	19.70	0.625	0.040	1.20	0.751	/
		Back Side	10	QPSK		Hotspot on	100%	0	20850/2510	20.50	20.01	1.070	0.012	1.12	1.198	/

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		Repeat														
		Front Side	10	QPSK		Hotspot on	1	99	20850/2510	20.50	20.17	0.353	0.019	1.08	0.381	/
			10	QPSK		Hotspot on	50%	50	20850/2510	20.50	20.07	0.385	0.050	1.10	0.425	/
		Left Edge	10	QPSK		Hotspot on	1	99	20850/2510	20.50	20.17	0.437	0.017	1.08	0.471	/
			10	QPSK		Hotspot on	50%	50	20850/2510	20.50	20.07	0.447	-0.049	1.10	0.494	/
		Right Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK		Hotspot on	1	99	20850/2510	20.50	20.17	0.201	-0.040	1.08	0.217	/
			10	QPSK		Hotspot on	50%	50	20850/2510	20.50	20.07	0.164	0.030	1.10	0.181	/
		Bottom Edge	10	QPSK		Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK		Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10	QPSK		Hotspot on	100%	0	20850/2510	20.50	20.01	0.992	0.160	1.12	1.110	/
		Back Side	10	QPSK	ENDC	Hotspot on	1	99	20850/2510	18.50	18.34	0.583	0.017	1.04	0.605	/
			10	QPSK		Hotspot on	50%	50	20850/2510	18.50	18.28	0.594	0.150	1.05	0.625	/
		Front Side	10	QPSK		Hotspot on	1	99	20850/2510	18.50	18.34	0.248	-0.180	1.04	0.257	/
			10	QPSK		Hotspot on	50%	50	20850/2510	18.50	18.28	0.243	0.046	1.05	0.256	/
		Left Edge	10	QPSK		Hotspot on	1	99	20850/2510	18.50	18.34	0.284	0.023	1.04	0.295	/
			10	QPSK		Hotspot on	50%	50	20850/2510	18.50	18.28	0.271	0.069	1.05	0.285	/
		Top Edge	10	QPSK		Hotspot on	1	99	20850/2510	18.50	18.34	0.090	0.048	1.04	0.093	/
			10	QPSK		Hotspot on	50%	50	20850/2510	18.50	18.28	0.075	0.027	1.05	0.079	/
LTE 12	ANT0	Back Side	10	QPSK	Standa lone	Hotspot on	1	0	23060/704	24.00	23.05	0.236	0.100	1.24	0.294	/
			10	QPSK		Hotspot on	50%	0	23060/704	23.00	22.05	0.178	0.071	1.24	0.222	/
		Front Side	10	QPSK		Hotspot on	1	0	23060/704	24.00	23.05	0.144	0.080	1.24	0.179	/
			10	QPSK		Hotspot on	50%	0	23060/704	23.00	22.05	0.120	0.096	1.24	0.149	/
		Left Edge	10	QPSK		Hotspot on	1	0	23060/704	24.00	23.05	0.146	0.060	1.24	0.182	/
			10	QPSK		Hotspot on	50%	0	23060/704	23.00	22.05	0.113	0.013	1.24	0.141	/
		Right Edge	10	QPSK		Hotspot on	1	0	23060/704	24.00	23.05	0.059	-0.015	1.24	0.073	/
			10	QPSK		Hotspot on	50%	0	23060/704	23.00	22.05	0.043	0.010	1.24	0.054	/
		Top Edge	10	QPSK		Hotspot on	1	0	23060/704	24.00	23.05	0.187	0.021	1.24	0.233	/
			10	QPSK		Hotspot on	50%	0	23060/704	23.00	22.05	0.147	0.037	1.24	0.183	/
		Bottom Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE 13	ANT0	Back Side	10	QPSK	Standa lone & ENDC	Hotspot on	1	49	23230/782	25.00	24.36	0.408	0.041	1.16	0.473	/
			10	QPSK		Hotspot on	50%	25	23230/782	24.00	23.37	0.324	0.033	1.16	0.375	/
		Front Side	10	QPSK		Hotspot on	1	49	23230/782	25.00	24.36	0.266	0.029	1.16	0.308	/
			10	QPSK		Hotspot on	50%	25	23230/782	24.00	23.37	0.203	-0.087	1.16	0.235	/
		Left Edge	10	QPSK		Hotspot on	1	49	23230/782	25.00	24.36	0.237	0.032	1.16	0.275	/
			10	QPSK		Hotspot on	50%	25	23230/782	24.00	23.37	0.178	0.010	1.16	0.206	/
		Right Edge	10	QPSK		Hotspot on	1	49	23230/782	25.00	24.36	0.096	0.026	1.16	0.111	/
			10	QPSK		Hotspot on	50%	25	23230/782	24.00	23.37	0.077	0.049	1.16	0.089	/

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		Top Edge	10	QPSK		Hotspot on	1	49	23230/782	25.00	24.36	0.458	-0.024	1.16	0.531	61	
			10	QPSK		Hotspot on	50%	25	23230/782	24.00	23.37	0.349	0.025	1.16	0.403	/	
		Bottom Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		Top Edge Battery2	10	QPSK		Hotspot on	1	49	23230/782	25.00	24.36	0.444	-0.012	1.16	0.514	/	
LTE 48	ANT2	Back Side	10	QPSK	Standard & ENDC	Hotspot on	1	99	56340/3660	22.50	21.35	0.355	0.020	1.30	0.463	/	
			10	QPSK		Hotspot on	50%	50	56340/3660	22.50	21.30	0.371	0.126	1.32	0.489	/	
		Front Side	10	QPSK		Hotspot on	1	99	56340/3660	22.50	21.35	0.117	0.035	1.30	0.152	/	
			10	QPSK		Hotspot on	50%	50	56340/3660	22.50	21.30	0.105	0.018	1.32	0.138	/	
		Left Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	
		Right Edge	10	QPSK		Hotspot on	1	99	56340/3660	22.50	21.35	0.299	-0.010	1.30	0.390	/	
			10	QPSK		Hotspot on	50%	50	56340/3660	22.50	21.30	0.309	0.020	1.32	0.407	/	
		Top Edge	10	QPSK		Hotspot on	1	99	56340/3660	22.50	21.35	0.080	0.026	1.30	0.104	/	
			10	QPSK		Hotspot on	50%	50	56340/3660	22.50	21.30	0.068	0.011	1.32	0.090	/	
		Bottom Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		Back Side Battery2	10	QPSK		Hotspot on	50%	50	56340/3660	22.50	21.30	0.471	0.020	1.32	0.621	62	
		Back Side	10	QPSK		Hotspot on	1	99	56340/3660	22.50	21.29	0.295	0.010	1.32	0.390	/	
						Hotspot on	1	0	56538/3679.8							/	
LTE 66	ANT2	Back Side	10	QPSK	Standard & ENDC	Hotspot on	1	0	132322/1745	22.50	21.74	0.326	0.027	1.19	0.388	/	
			10	QPSK		Hotspot on	50%	50	132072/1720	22.50	21.76	0.364	0.023	1.19	0.432	63	
		Front Side	10	QPSK		Hotspot on	1	0	132322/1745	22.50	21.74	0.195	0.027	1.19	0.232	/	
			10	QPSK		Hotspot on	50%	50	132072/1720	22.50	21.76	0.226	0.011	1.19	0.268	/	
		Left Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	
		Right Edge	10	QPSK		Hotspot on	1	0	132322/1745	22.50	21.74	0.208	0.026	1.19	0.248	/	
			10	QPSK		Hotspot on	50%	50	132072/1720	22.50	21.76	0.231	0.070	1.19	0.274	/	
		Top Edge	10	QPSK		Hotspot on	1	0	132322/1745	22.50	21.74	0.143	0.060	1.19	0.170	/	
			10	QPSK		Hotspot on	50%	50	132072/1720	22.50	21.76	0.156	-0.046	1.19	0.185	/	
		Bottom Edge	10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
	Back Side Battery2	10	QPSK	Hotspot on		50%	50	132072/1720	22.50	21.76	0.353	0.017	1.19	0.419	/		
	ANT1	Back Side	10	QPSK	ENDC	Hotspot on	1	99	132572/1770	20.50	19.54	0.214	0.028	1.25	0.267	/	
			10	QPSK		Hotspot on	50%	25	132572/1770	20.50	19.48	0.180	0.030	1.26	0.228	/	
Front Side		10	QPSK	Hotspot on		1	99	132572/1770	20.50	19.54	0.091	0.032	1.25	0.114	/		
		10	QPSK	Hotspot on		50%	25	132572/1770	20.50	19.48	0.100	-0.050	1.26	0.126	/		
Left Edge		10	QPSK	Hotspot on		1	99	132572/1770	20.50	19.54	0.001	0.025	1.25	0.001	/		
		10	QPSK	Hotspot on		50%	25	132572/1770	20.50	19.48	0.001	0.014	1.26	0.001	/		
Right Edge		10	QPSK	Hotspot on		1	99	132572/1770	20.50	19.54	0.058	0.016	1.25	0.072	/		

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		Top Edge	10	QPSK		Hotspot on	50%	25	132572/1770	20.50	19.48	0.058	0.020	1.26	0.073	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK		Hotspot on	1	99	132572/1770	20.50	19.54	0.174	0.048	1.25	0.217	/
			10	QPSK		Hotspot on	50%	25	132572/1770	20.50	19.48	0.228	-0.060	1.26	0.288	/

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
n2	ANT2	Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	214	376000/1880	21.50	20.62	0.453	0.025	1.22	0.555	/
			10			Hotspot on	50%	54	378000/1890	21.50	20.79	0.472	-0.036	1.18	0.556	/
		Front Side	10			Hotspot on	1	214	376000/1880	21.50	20.62	0.235	0.019	1.22	0.288	/
			10			Hotspot on	50%	54	378000/1890	21.50	20.79	0.263	0.120	1.18	0.310	/
		Left Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10			Hotspot on	1	214	376000/1880	21.50	20.62	0.285	0.050	1.22	0.349	/
			10			Hotspot on	50%	54	378000/1890	21.50	20.79	0.306	0.070	1.18	0.360	/
		Top Edge	10			Hotspot on	1	214	376000/1880	21.50	20.62	0.232	-0.015	1.22	0.284	/
			10			Hotspot on	50%	54	378000/1890	21.50	20.79	0.277	0.059	1.18	0.326	/
		Bottom Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10			Hotspot on	50%	54	378000/1890	21.50	20.79	0.510	0.020	1.18	0.601	64
	ANT1	Back Side	10	NSA	DFT-s-OFDM QPSK	Hotspot on	1	214	378000/1890	20.50	19.08	0.399	0.040	1.39	0.553	/
			10			Hotspot on	50%	54	376000/1880	20.50	19.05	0.428	0.031	1.40	0.598	/
		Front Side	10			Hotspot on	1	214	378000/1890	20.50	19.08	0.177	0.028	1.39	0.245	/
			10			Hotspot on	50%	54	376000/1880	20.50	19.05	0.250	0.060	1.40	0.349	/
		Left Edge	10			Hotspot on	1	214	378000/1890	20.50	19.08	0.001	0.010	1.39	0.001	/
			10			Hotspot on	50%	54	376000/1880	20.50	19.05	0.001	0.023	1.40	0.001	/
		Right Edge	10			Hotspot on	1	214	378000/1890	20.50	19.08	0.137	0.060	1.39	0.190	/
			10			Hotspot on	50%	54	376000/1880	20.50	19.05	0.193	0.048	1.40	0.269	/
		Top Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10			Hotspot on	1	214	378000/1890	20.50	19.08	0.325	0.022	1.39	0.451	/
			10			Hotspot on	50%	54	376000/1880	20.50	19.05	0.385	0.070	1.40	0.538	/
n5	ANT0	Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	104	167300/836.5	24.50	22.83	0.355	0.180	1.47	0.521	/
			10			Hotspot on	50%	25	167300/836.5	24.50	22.94	0.293	0.091	1.43	0.420	/
		Front Side	10			Hotspot on	1	104	167300/836.5	24.50	22.83	0.247	0.028	1.47	0.363	/
			10			Hotspot on	50%	25	167300/836.5	24.50	22.94	0.208	0.015	1.43	0.298	/
		Left Edge	10			Hotspot on	1	104	167300/836.5	24.50	22.83	0.191	0.024	1.47	0.281	/
			10			Hotspot on	50%	25	167300/836.5	24.50	22.94	0.163	0.040	1.43	0.233	/
		Right Edge	10			Hotspot on	1	104	167300/836.5	24.50	22.83	0.080	0.060	1.47	0.118	/
			10			Hotspot on	50%	25	167300/836.5	24.50	22.94	0.073	-0.023	1.43	0.105	/

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		Top Edge	10			Hotspot on	1	104	167300/836.5	24.50	22.83	0.348	0.019	1.47	0.511	/
			10			Hotspot on	50%	25	167300/836.5	24.50	22.94	0.291	0.025	1.43	0.417	/
		Bottom Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10			Hotspot on	1	104	167300/836.5	24.50	22.83	0.376	0.020	1.47	0.552	65
n48	ANT2	Back Side	10	SA	DFT-s-OFDM QPSK	Hotspot on	1	1	643332/3649.98	22.00	20.82	0.605	0.034	1.31	0.794	/
			10			Hotspot on	50%	67	640000/3600	22.00	20.90	0.618	0.052	1.29	0.796	66
		Front Side	10			Hotspot on	1	1	643332/3649.98	22.00	20.82	0.192	-0.031	1.31	0.252	/
			10			Hotspot on	50%	67	640000/3600	22.00	20.90	0.217	0.022	1.29	0.280	/
		Left Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10			Hotspot on	1	N/A	643332/3649.98	22.00	20.82	0.572	0.014	1.31	0.751	/
			10			Hotspot on	50%	N/A	640000/3600	22.00	20.90	0.563	0.035	1.29	0.725	/
		Top Edge	10			Hotspot on	1	1	643332/3649.98	22.00	20.82	0.109	0.050	1.31	0.143	/
			10			Hotspot on	50%	67	640000/3600	22.00	20.90	0.106	0.029	1.29	0.137	/
		Bottom Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10			Hotspot on	50%	67	640000/3600	22.00	20.90	0.601	0.100	1.29	0.774	/
		Back Side	10		CP-OFDM QPSK	Hotspot on	1	1	643332/3649.98	22.00	20.92	0.322	0.027	1.28	0.413	/
n66	ANT2	Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	1	352000/1760	22.00	20.96	0.382	0.020	1.27	0.485	/
			10			Hotspot on	50%	54	349000/1745	22.00	21.10	0.398	0.070	1.23	0.490	67
		Front Side	10			Hotspot on	1	1	352000/1760	22.00	20.96	0.224	0.032	1.27	0.285	/
			10			Hotspot on	50%	54	349000/1745	22.00	21.10	0.250	0.150	1.23	0.308	/
		Left Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10			Hotspot on	1	1	352000/1760	22.00	20.96	0.247	-0.060	1.27	0.314	/
			10			Hotspot on	50%	54	349000/1745	22.00	21.10	0.216	0.030	1.23	0.266	/
		Top Edge	10			Hotspot on	1	1	352000/1760	22.00	20.96	0.201	0.010	1.27	0.255	/
			10			Hotspot on	50%	54	349000/1745	22.00	21.10	0.205	0.051	1.23	0.252	/
		Bottom Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side Battery2	10			Hotspot on	50%	54	349000/1745	22.00	21.10	0.331	0.110	1.23	0.407	/
	ANT1	Back Side	10	NSA	DFT-s-OFDM QPSK	Hotspot on	1	214	346000/1730	21.50	21.04	0.245	0.039	1.11	0.272	/
			10			Hotspot on	50%	54	349000/1745	21.50	21.03	0.349	-0.047	1.11	0.389	/
		Front Side	10			Hotspot on	1	214	346000/1730	21.50	21.04	0.129	-0.010	1.11	0.143	/
			10			Hotspot on	50%	54	349000/1745	21.50	21.03	0.119	-0.049	1.11	0.133	/
		Left Edge	10			Hotspot on	1	214	346000/1730	21.50	21.04	0.001	0.016	1.11	0.001	/
			10			Hotspot on	50%	54	349000/1745	21.50	21.03	0.001	0.050	1.11	0.001	/
		Right Edge	10			Hotspot on	1	214	346000/1730	21.50	21.04	0.062	-0.080	1.11	0.069	/

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		Top Edge	10			Hotspot on	50%	54	349000/1745	21.50	21.03	0.068	-0.016	1.11	0.076	/
			10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10			Hotspot on	1	214	346000/1730	21.50	21.04	0.304	-0.010	1.11	0.338	/
			10			Hotspot on	50%	54	349000/1745	21.50	21.03	0.304	0.015	1.11	0.339	/
n77 PC2	ANT2	Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	271	662000/3930	19.00	18.18	0.543	0.015	1.21	0.656	/
			10			Hotspot on	50%	67	662000/3930	19.00	18.39	0.572	0.020	1.15	0.658	68
		Front Side	10			Hotspot on	1	271	662000/3930	19.00	18.18	0.172	0.029	1.21	0.208	/
			10			Hotspot on	50%	67	662000/3930	19.00	18.39	0.198	0.035	1.15	0.228	/
		Left Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10			Hotspot on	1	271	662000/3930	19.00	18.18	0.412	0.040	1.21	0.498	/
			10			Hotspot on	50%	67	662000/3930	19.00	18.39	0.429	0.160	1.15	0.494	/
		Top Edge	10			Hotspot on	1	271	662000/3930	19.00	18.18	0.137	0.030	1.21	0.165	/
			10			Hotspot on	50%	67	662000/3930	19.00	18.39	0.142	0.011	1.15	0.163	/
		Bottom Edge	10			Hotspot on	1	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10			Hotspot on	50%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side	10			Hotspot on	1	271	633332/3500	19.00	18.08	0.525	0.012	1.24	0.649	/
			10			Hotspot on	50%	67	633332/3500	19.00	18.23	0.531	0.060	1.19	0.634	/
		Back Side Battery2	10			Hotspot on	50%	67	662000/3930	19.00	18.39	0.456	0.125	1.15	0.525	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/Kg)	Plot No.
2.4G	ANT7	Back Side	10	11b	Standalone& Simulataneous Transmission	100.0%	Receiver off	11/2462	14.50	13.46	0.059	0.097	1.27	0.075	69
		Front Side	10	11b		100.0%	Receiver off	11/2462	14.50	13.46	0.039	0.010	1.27	0.050	/
		Left Edge	10	11b		100.0%	Receiver off	11/2462	14.50	13.46	0.001	0.021	1.27	0.001	/
		Right Edge	10	11b		100.0%	Receiver off	11/2462	14.50	13.46	0.036	-0.025	1.27	0.046	/
		Top Edge	10	11b		100.0%	Receiver off	11/2462	14.50	13.46	0.025	0.020	1.27	0.032	/
		Bottom Edge	10	11b		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		U-NII-2A	ANT7	Back Side		10	11a	Standalone& Simulataneous Transmission	100.0%	Receiver off	56/5280	14.50	13.32	0.205	0.036
Front Side	10	11a		100.0%	Receiver off	56/5280	14.50		13.32	0.055	0.021	1.31	0.072	/	
Left Edge	10	11a		100.0%	Receiver off	56/5280	14.50		13.32	0.033	-0.013	1.31	0.043	/	
Right Edge	10	11a		100.0%	Receiver off	56/5280	14.50		13.32	0.112	0.040	1.31	0.147	/	
Top Edge	10	11a		100.0%	Receiver off	56/5280	14.50		13.32	0.165	0.068	1.31	0.217	/	
Bottom Edge	10	11a		100.0%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	/	
Back Side Battery2	10	11a		100.0%	Receiver off	56/5280	14.50		13.32	0.158	0.012	1.31	0.207	/	
U-NII-2C	ANT7	Back Side	10	11a	Standalone& Simulataneous Transmission	100.0%	Receiver off	116/5580	14.50	13.16	0.197	0.100	1.36	0.268	/
		Front Side	10	11a		100.0%	Receiver off	116/5580	14.50	13.16	0.064	0.039	1.36	0.087	/
		Left Edge	10	11a		100.0%	Receiver off	116/5580	14.50	13.16	0.035	0.018	1.36	0.048	/
		Right Edge	10	11a		100.0%	Receiver off	116/5580	14.50	13.16	0.081	0.020	1.36	0.110	/

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		Top Edge	10	11a		100.0%	Receiver off	116/5580	14.50	13.16	0.148	0.036	1.36	0.201	/
		Bottom Edge	10	11a		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side Battery2	10	11a		100.0%	Receiver off	116/5580	14.50	13.16	0.148	0.021	1.36	0.201	/
U-NII-3	ANT7	Back Side	10	11a	Standalone& Simultaneous Transmission	100.0%	Receiver off	149/5745	14.50	13.43	0.193	0.100	1.28	0.247	/
		Front Side	10	11a		100.0%	Receiver off	149/5745	14.50	13.43	0.066	0.038	1.28	0.084	/
		Left Edge	10	11a		100.0%	Receiver off	149/5745	14.50	13.43	0.052	0.024	1.28	0.067	/
		Right Edge	10	11a		100.0%	Receiver off	149/5745	14.50	13.43	0.092	0.015	1.28	0.118	/
		Top Edge	10	11a		100.0%	Receiver off	149/5745	14.50	13.43	0.178	0.060	1.28	0.228	/
		Bottom Edge	10	11a		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side Battery2	10	11a		100.0%	Receiver off	149/5745	14.50	13.43	0.185	0.027	1.28	0.237	/
Bluetooth	ANT7	Back Side	10	DH5	Standalone& Simultaneous Transmission	76.8%	Full Power	39/2441	9.50	8.06	0.017	-0.070	1.81	0.030	/
		Front Side	10	DH5		76.8%	Full Power	39/2441	9.50	8.06	0.013	-0.199	1.81	0.023	/
		Left Edge	10	DH5		76.8%	Full Power	39/2441	9.50	8.06	0.001	0.020	1.81	0.002	/
		Right Edge	10	DH5		76.8%	Full Power	39/2441	9.50	8.06	0.020	0.046	1.81	0.036	71
		Top Edge	10	DH5		76.8%	Full Power	39/2441	9.50	8.06	0.009	0.031	1.81	0.017	/
		Bottom Edge	10	DH5		76.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge Battery2	10	DH5		76.8%	Full Power	39/2441	9.50	8.06	0.014	0.022	1.81	0.025	/

Product-specific 10g SAR Evaluation

Band	Antenna	Test Position	Mode	Type	Duty Cycle	Power Reduction	RB	Offset	Channel Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Scaling Factor	Report SAR1g (W/Kg)	Imm SAR
GSM850	ANT0	Back Side	3TX Slots	Standalone	N/A	Receiver off	N/A	N/A	190/836.6	30.50	30.50	0.587	1.00	0.587	NO
		Front Side	3TX Slots		N/A	Receiver off	N/A	N/A	190/836.6	30.50	30.50	0.359	1.00	0.359	NO
		Left Edge	3TX Slots		N/A	Receiver off	N/A	N/A	190/836.6	30.50	30.50	0.242	1.00	0.242	NO
		Right Edge	3TX Slots		N/A	Receiver off	N/A	N/A	190/836.6	30.50	30.50	0.134	1.00	0.134	NO
		Top Edge	3TX Slots		N/A	Receiver off	N/A	N/A	190/836.6	30.50	30.50	0.569	1.00	0.569	NO
		Bottom Edge	3TX Slots		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	3TX Slots		N/A	Receiver off	N/A	N/A	190/836.6	30.50	30.50	0.576	1.00	0.576	NO
GSM1900	ANT2	Back Side	4TX Slots	Standalone	N/A	Receiver off	N/A	N/A	661/1880	26.50	26.50	0.795	1.00	0.795	NO
		Front Side	4TX Slots		N/A	Receiver off	N/A	N/A	661/1880	26.50	26.50	0.483	1.00	0.483	NO
		Left Edge	4TX Slots		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge	4TX Slots		N/A	Receiver off	N/A	N/A	661/1880	26.50	26.50	0.483	1.00	0.483	NO
		Top Edge	4TX Slots		N/A	Receiver off	N/A	N/A	661/1880	26.50	26.50	0.453	1.00	0.453	NO
		Bottom Edge	4TX Slots		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	4TX Slots		N/A	Receiver off	N/A	N/A	661/1880	26.50	26.50	0.817	1.00	0.817	NO
WCDMA II	ANT2	Back Side	RMC	Standalone	N/A	Receiver off	N/A	N/A	9400/1880	23.00	23.00	0.722	1.00	0.722	NO
		Front Side	RMC		N/A	Receiver off	N/A	N/A	9400/1880	23.00	23.00	0.447	1.00	0.447	NO
		Left Edge	RMC		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge	RMC		N/A	Receiver off	N/A	N/A	9400/1880	23.00	23.00	0.467	1.00	0.467	NO
		Top Edge	RMC		N/A	Receiver off	N/A	N/A	9400/1880	23.00	23.00	0.414	1.00	0.414	NO

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		Bottom Edge	RMC		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	RMC		N/A	Receiver off	N/A	N/A	9400/1880	23.00	23.00	0.702	1.00	0.702	NO
WCDMA V	ANT0	Back Side	RMC	Standalone	N/A	Receiver off	N/A	N/A	4183/836.6	23.50	23.50	0.407	1.00	0.407	NO
		Front Side	RMC		N/A	Receiver off	N/A	N/A	4183/836.6	23.50	23.50	0.263	1.00	0.263	NO
		Left Edge	RMC		N/A	Receiver off	N/A	N/A	4183/836.6	23.50	23.50	0.168	1.00	0.168	NO
		Right Edge	RMC		N/A	Receiver off	N/A	N/A	4183/836.6	23.50	23.50	0.094	1.00	0.094	NO
		Top Edge	RMC		N/A	Receiver off	N/A	N/A	4183/836.6	23.50	23.50	0.433	1.00	0.433	NO
		Bottom Edge	RMC		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	RMC		N/A	Receiver off	N/A	N/A	4183/836.6	23.50	23.50	0.379	1.00	0.379	NO
LTE 2	ANT2	Back Side	QPSK	Standalone & ENDC	N/A	Receiver off	1	0	18700/1860	23.50	22.50	0.605	1.26	0.761	NO
			QPSK		N/A	Receiver off	50%	0	19100/1900	23.50	22.50	0.621	1.26	0.781	NO
		Front Side	QPSK		N/A	Receiver off	1	0	18700/1860	23.50	22.50	0.410	1.26	0.517	NO
			QPSK		N/A	Receiver off	50%	0	19100/1900	23.50	22.50	0.352	1.26	0.443	NO
		Left Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge	QPSK		N/A	Receiver off	1	0	18700/1860	23.50	22.50	0.470	1.26	0.592	NO
			QPSK		N/A	Receiver off	50%	0	19100/1900	23.50	22.50	0.410	1.26	0.516	NO
		Top Edge	QPSK		N/A	Receiver off	1	0	18700/1860	23.50	22.50	0.388	1.26	0.489	NO
			QPSK		N/A	Receiver off	50%	0	19100/1900	23.50	22.50	0.389	1.26	0.490	NO
		Bottom Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ANT1	Back Side	QPSK	ENDC	N/A	Receiver off	1	50	18700/1860	22.50	20.50	0.488	1.58	0.774	NO
			QPSK		N/A	Receiver off	50%	25	18700/1860	22.50	20.50	0.529	1.58	0.839	NO
		Front Side	QPSK		N/A	Receiver off	1	50	18700/1860	22.50	20.50	0.307	1.58	0.487	NO
			QPSK		N/A	Receiver off	50%	25	18700/1860	22.50	20.50	0.241	1.58	0.381	NO
		Left Edge	QPSK		N/A	Receiver off	1	50	18700/1860	22.50	20.50	0.001	1.58	0.002	NO
			QPSK		N/A	Receiver off	50%	25	18700/1860	22.50	20.50	0.001	1.58	0.002	NO
		Right Edge	QPSK		N/A	Receiver off	1	50	18700/1860	22.50	20.50	0.205	1.58	0.325	NO
			QPSK		N/A	Receiver off	50%	25	18700/1860	22.50	20.50	0.203	1.58	0.321	NO
		Top Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK		N/A	Receiver off	1	50	18700/1860	22.50	20.50	0.708	1.58	1.121	NO
			QPSK		N/A	Receiver off	50%	25	18700/1860	22.50	20.50	0.749	1.58	1.187	NO
		Bottom Edge	QPSK		N/A	Receiver off	50%	25	18700/1860	22.50	20.50	0.631	1.58	0.999	NO
LTE 5	ANT0	Back Side	QPSK	Standalone & ENDC	N/A	Receiver off	1	49	20450/829	25.00	25.00	0.493	1.00	0.493	NO
			QPSK		N/A	Receiver off	50%	25	20450/829	24.00	24.00	0.365	1.00	0.365	NO
		Front Side	QPSK		N/A	Receiver off	1	49	20450/829	25.00	25.00	0.309	1.00	0.309	NO
			QPSK		N/A	Receiver off	50%	25	20450/829	24.00	24.00	0.241	1.00	0.241	NO
		Left Edge	QPSK		N/A	Receiver off	1	49	20450/829	25.00	25.00	0.211	1.00	0.211	NO
			QPSK		N/A	Receiver off	50%	25	20450/829	24.00	24.00	0.161	1.00	0.161	NO
		Right Edge	QPSK		N/A	Receiver off	1	49	20450/829	25.00	25.00	0.120	1.00	0.120	NO
			QPSK		N/A	Receiver off	50%	25	20450/829	24.00	24.00	0.088	1.00	0.088	NO
		Top Edge	QPSK		N/A	Receiver off	1	49	20450/829	25.00	25.00	0.524	1.00	0.524	NO
			QPSK												

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			QPSK		N/A	Receiver off	50%	25	20450/829	24.00	24.00	0.394	1.00	0.394	NO
		Bottom Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK		N/A	Receiver off	1	49	20450/829	25.00	25.00	0.472	1.00	0.472	NO
LTE 7	ANT4	Back Side	QPSK	Standalone	N/A	Receiver off	1	99	20850/2510	21.50	20.50	0.976	1.26	1.229	YES
			QPSK		N/A	Receiver off	1	0	21100/2535	21.50	20.50	0.857	1.26	1.078	NO
			QPSK		N/A	Receiver off	1	99	21350/2560	21.50	20.50	0.666	1.26	0.838	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	21.50	20.50	1.103	1.26	1.389	YES
			QPSK		N/A	Receiver off	50%	50	21100/2535	21.50	20.50	0.818	1.26	1.030	NO
			QPSK		N/A	Receiver off	50%	50	21350/2560	21.50	20.50	0.716	1.26	0.901	NO
			QPSK		N/A	Receiver off	100%	0	20850/2510	21.50	20.50	1.265	1.26	1.592	YES
			QPSK		N/A	Receiver off	100%	0	21100/2535	21.50	20.50	0.905	1.26	1.140	NO
			QPSK		N/A	Receiver off	100%	0	21350/2560	21.50	20.50	0.751	1.26	0.946	NO
		Back Side Repeat	QPSK	Standalone	N/A	Receiver off	100%	0	20850/2510	21.50	20.50	1.198	1.26	1.508	YES
		Front Side	QPSK		N/A	Receiver off	1	99	20850/2510	21.50	20.50	0.381	1.26	0.479	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	21.50	20.50	0.425	1.26	0.535	NO
		Left Edge	QPSK		N/A	Receiver off	1	99	20850/2510	21.50	20.50	0.471	1.26	0.594	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	21.50	20.50	0.494	1.26	0.621	NO
		Right Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK		N/A	Receiver off	1	99	20850/2510	21.50	20.50	0.217	1.26	0.273	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	21.50	20.50	0.181	1.26	0.228	NO
		Bottom Edge	QPSK		N/A	Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	QPSK	ENDC	N/A	Receiver off	100%	0	20850/2510	21.50	20.50	1.110	1.26	1.398	YES
		Back Side	QPSK		N/A	Receiver off	1	99	20850/2510	19.50	18.50	0.605	1.26	0.761	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	19.50	18.50	0.625	1.26	0.787	NO
		Front Side	QPSK		N/A	Receiver off	1	99	20850/2510	19.50	18.50	0.257	1.26	0.324	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	19.50	18.50	0.256	1.26	0.322	NO
		Left Edge	QPSK		N/A	Receiver off	1	99	20850/2510	19.50	18.50	0.295	1.26	0.371	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	19.50	18.50	0.285	1.26	0.359	NO
		Top Edge	QPSK		N/A	Receiver off	1	99	20850/2510	19.50	18.50	0.093	1.26	0.118	NO
			QPSK		N/A	Receiver off	50%	50	20850/2510	19.50	18.50	0.079	1.26	0.099	NO
LTE 12	ANT0	Back Side	QPSK	Standalone	N/A	Receiver off	1	0	23060/704	24.00	24.00	0.294	1.00	0.294	NO
			QPSK		N/A	Receiver off	50%	0	23060/704	23.00	23.00	0.222	1.00	0.222	NO
		Front Side	QPSK		N/A	Receiver off	1	0	23060/704	24.00	24.00	0.179	1.00	0.179	NO
			QPSK		N/A	Receiver off	50%	0	23060/704	23.00	23.00	0.149	1.00	0.149	NO
		Left Edge	QPSK		N/A	Receiver off	1	0	23060/704	24.00	24.00	0.182	1.00	0.182	NO
			QPSK		N/A	Receiver off	50%	0	23060/704	23.00	23.00	0.141	1.00	0.141	NO
		Right Edge	QPSK		N/A	Receiver off	1	0	23060/704	24.00	24.00	0.073	1.00	0.073	NO
			QPSK		N/A	Receiver off	50%	0	23060/704	23.00	23.00	0.054	1.00	0.054	NO
		Top Edge	QPSK		N/A	Receiver off	1	0	23060/704	24.00	24.00	0.233	1.00	0.233	NO

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			QPSK		N/A	Receiver off	50%	0	23060/704	23.00	23.00	0.183	1.00	0.183	NO
		Bottom Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Back Side	QPSK		N/A	Receiver off	1	0	23060/704	24.00	24.00	0.299	1.00	0.299	NO
LTE 13	ANT0	Back Side	QPSK	Standalone & ENDC	N/A	Receiver off	1	49	23230/782	25.00	25.00	0.473	1.00	0.473	NO
			QPSK		N/A	Receiver off	50%	25	23230/782	24.00	24.00	0.375	1.00	0.375	NO
		Front Side	QPSK		N/A	Receiver off	1	49	23230/782	25.00	25.00	0.308	1.00	0.308	NO
			QPSK		N/A	Receiver off	50%	25	23230/782	24.00	24.00	0.235	1.00	0.235	NO
		Left Edge	QPSK		N/A	Receiver off	1	49	23230/782	25.00	25.00	0.275	1.00	0.275	NO
			QPSK		N/A	Receiver off	50%	25	23230/782	24.00	24.00	0.206	1.00	0.206	NO
		Right Edge	QPSK		N/A	Receiver off	1	49	23230/782	25.00	25.00	0.111	1.00	0.111	NO
			QPSK		N/A	Receiver off	50%	25	23230/782	24.00	24.00	0.089	1.00	0.089	NO
		Top Edge	QPSK		N/A	Receiver off	1	49	23230/782	25.00	25.00	0.531	1.00	0.531	NO
			QPSK		N/A	Receiver off	50%	25	23230/782	24.00	24.00	0.403	1.00	0.403	NO
		Bottom Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK		N/A	Receiver off	1	49	23230/782	25.00	25.00	0.514	1.00	0.514	NO
LTE 48	ANT2	Back Side	QPSK	Standalone & ENDC	N/A	Receiver off	1	99	56340/3660	23.50	22.50	0.463	1.26	0.582	NO
			QPSK		N/A	Receiver off	50%	50	56340/3660	23.50	22.50	0.489	1.26	0.616	NO
		Front Side	QPSK		N/A	Receiver off	1	99	56340/3660	23.50	22.50	0.152	1.26	0.192	NO
			QPSK		N/A	Receiver off	50%	50	56340/3660	23.50	22.50	0.138	1.26	0.174	NO
		Left Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge	QPSK		N/A	Receiver off	1	99	56340/3660	23.50	22.50	0.390	1.26	0.491	NO
			QPSK		N/A	Receiver off	50%	50	56340/3660	23.50	22.50	0.407	1.26	0.513	NO
		Top Edge	QPSK		N/A	Receiver off	1	99	56340/3660	23.50	22.50	0.104	1.26	0.131	NO
			QPSK		N/A	Receiver off	50%	50	56340/3660	23.50	22.50	0.090	1.26	0.113	NO
		Bottom Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	QPSK		N/A	Receiver off	50%	50	56340/3660	23.50	22.50	0.621	1.26	0.782	NO
		Back Side	QPSK		N/A	Receiver off	1	99	56340/3660	23.50	22.50	0.390	1.26	0.491	NO
					N/A		1	0	56538/3679.8						NO
LTE 66	ANT2	Back Side	QPSK	Standalone & ENDC	N/A	Receiver off	1	0	132322/1745	23.50	22.50	0.388	1.26	0.489	NO
			QPSK		N/A	Receiver off	50%	50	132072/1720	23.50	22.50	0.432	1.26	0.543	NO
		Front Side	QPSK		N/A	Receiver off	1	0	132322/1745	23.50	22.50	0.232	1.26	0.292	NO
			QPSK		N/A	Receiver off	50%	50	132072/1720	23.50	22.50	0.268	1.26	0.337	NO
		Left Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge	QPSK		N/A	Receiver off	1	0	132322/1745	23.50	22.50	0.248	1.26	0.312	NO
			QPSK		N/A	Receiver off	50%	50	132072/1720	23.50	22.50	0.274	1.26	0.345	NO
		Top Edge	QPSK		N/A	Receiver off	1	0	132322/1745	23.50	22.50	0.170	1.26	0.214	NO
			QPSK		N/A	Receiver off	50%	50	132072/1720	23.50	22.50	0.185	1.26	0.233	NO
		Bottom Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	QPSK		N/A	Receiver off	50%	50	132072/1720	23.50	22.50	0.419	1.26	0.527	NO
	ANT1	Back Side	QPSK	ENDC	N/A	Receiver off	1	99	132572/1770	22.50	20.50	0.267	1.58	0.423	NO
			QPSK		N/A	Receiver off	50%	25	132572/1770	22.50	20.50	0.228	1.58	0.361	NO
		Front Side	QPSK		N/A	Receiver off	1	99	132572/1770	22.50	20.50	0.114	1.58	0.180	NO
			QPSK		N/A	Receiver off	50%	25	132572/1770	22.50	20.50	0.126	1.58	0.200	NO
		Left Edge	QPSK		N/A	Receiver off	1	99	132572/1770	22.50	20.50	0.001	1.58	0.002	NO
			QPSK		N/A	Receiver off	50%	25	132572/1770	22.50	20.50	0.001	1.58	0.002	NO
		Right Edge	QPSK		N/A	Receiver off	1	99	132572/1770	22.50	20.50	0.072	1.58	0.115	NO
			QPSK		N/A	Receiver off	50%	25	132572/1770	22.50	20.50	0.073	1.58	0.116	NO
		Top Edge	QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK		N/A	Receiver off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK		N/A	Receiver off	1	99	132572/1770	22.50	20.50	0.217	1.58	0.344	NO
			QPSK		N/A	Receiver off	50%	25	132572/1770	22.50	20.50	0.288	1.58	0.457	NO
2.4G	ANT7	Back Side	11b	Standalone	100.0%	Receiver off	N/A	N/A	11/2462	18.50	14.50	0.075	2.51	0.188	NO
		Front Side	11b		100.0%	Receiver off	N/A	N/A	11/2462	18.50	14.50	0.050	2.51	0.124	NO
		Left Edge	11b		100.0%	Receiver off	N/A	N/A	11/2462	18.50	14.50	0.001	2.51	0.003	NO
		Right Edge	11b		100.0%	Receiver off	N/A	N/A	11/2462	18.50	14.50	0.046	2.51	0.115	NO
		Top Edge	11b		100.0%	Receiver off	N/A	N/A	11/2462	18.50	14.50	0.032	2.51	0.080	NO
		Bottom Edge	11b		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
U-NII-2A	ANT7	Back Side	11a	Standalone	100.0%	Receiver off	N/A	N/A	56/5280	18.00	14.50	0.269	2.24	0.602	NO
		Front Side	11a		100.0%	Receiver off	N/A	N/A	56/5280	18.00	14.50	0.072	2.24	0.162	NO
		Left Edge	11a		100.0%	Receiver off	N/A	N/A	56/5280	18.00	14.50	0.043	2.24	0.097	NO
		Right Edge	11a		100.0%	Receiver off	N/A	N/A	56/5280	18.00	14.50	0.147	2.24	0.329	NO
		Top Edge	11a		100.0%	Receiver off	N/A	N/A	56/5280	18.00	14.50	0.217	2.24	0.485	NO
		Bottom Edge	11a		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	11a	Simultaneous Transmission	100.0%	Receiver off	N/A	N/A	60/5300	11.00	11.00	0.207	1.00	0.207	NO
U-NII-2C	ANT7	Back Side	11a	Standalone	100.0%	Receiver off	N/A	N/A	116/5580	18.00	14.50	0.268	2.24	0.600	NO
		Front Side	11a		100.0%	Receiver off	N/A	N/A	116/5580	18.00	14.50	0.087	2.24	0.195	NO
		Left Edge	11a		100.0%	Receiver off	N/A	N/A	116/5580	18.00	14.50	0.048	2.24	0.107	NO
		Right Edge	11a		100.0%	Receiver off	N/A	N/A	116/5580	18.00	14.50	0.110	2.24	0.247	NO
		Top Edge	11a		100.0%	Receiver off	N/A	N/A	116/5580	18.00	14.50	0.201	2.24	0.451	NO
		Bottom Edge	11a		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	11a	Simultaneous Transmission	100.0%	Receiver off	N/A	N/A	116/5580	11.00	11.00	0.201	1.00	0.201	NO
U-NII-3	ANT7	Back Side	11a	Standalone	100.0%	Receiver off	N/A	N/A	149/5745	18.00	14.50	0.247	2.24	0.553	NO
		Front Side	11a		100.0%	Receiver off	N/A	N/A	149/5745	18.00	14.50	0.084	2.24	0.189	NO
		Left Edge	11a		100.0%	Receiver off	N/A	N/A	149/5745	18.00	14.50	0.067	2.24	0.149	NO
		Right Edge	11a		100.0%	Receiver off	N/A	N/A	149/5745	18.00	14.50	0.118	2.24	0.264	NO

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		Top Edge	11a		100.0%	Receiver off	N/A	N/A	149/5745	18.00	14.50	0.228	2.24	0.510	NO
		Bottom Edge	11a		100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	11a	Simultaneous Transmission	100.0%	Receiver off	N/A	N/A	149/5745	11.00	11.00	0.237	1.00	0.237	NO

Band	Antenna	Test Position	Type	Mode	Power Reduction	RB	offset	Channel Frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g	Measured SAR1g	Scaling Factor	0mm SAR
n2	ANT2	Back Side	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	214	376000/1880	24.00	21.50	0.555	1.78	0.987	NO
		Receiver off			50%	54	378000/1890	24.00	21.50	0.556	1.78	0.988	NO	
		Front Side			Receiver off	1	214	376000/1880	24.00	21.50	0.288	1.78	0.512	NO
		Receiver off			50%	54	378000/1890	24.00	21.50	0.310	1.78	0.551	NO	
		Left Edge			Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Receiver off			50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge			Receiver off	1	214	376000/1880	24.00	21.50	0.349	1.78	0.621	NO
		Receiver off			50%	54	378000/1890	24.00	21.50	0.360	1.78	0.641	NO	
		Top Edge			Receiver off	1	214	376000/1880	24.00	21.50	0.284	1.78	0.505	NO
		Receiver off			50%	54	378000/1890	24.00	21.50	0.326	1.78	0.580	NO	
	Bottom Edge	Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	Back Side	Receiver off	50%	54	378000/1890	24.00	21.50	0.601	1.78	1.068	NO			
	ANT1	Back Side	NSA	DFT-s-OFDM QPSK	Receiver off	1	214	378000/1890	22.50	20.50	0.553	1.58	0.877	NO
		Receiver off			50%	54	376000/1880	22.50	20.50	0.598	1.58	0.947	NO	
		Front Side			Receiver off	1	214	378000/1890	22.50	20.50	0.245	1.58	0.389	NO
		Receiver off			50%	54	376000/1880	22.50	20.50	0.349	1.58	0.553	NO	
		Left Edge			Receiver off	1	214	378000/1890	22.50	20.50	0.001	1.58	0.002	NO
		Receiver off			50%	54	376000/1880	22.50	20.50	0.001	1.58	0.002	NO	
		Right Edge			Receiver off	1	214	378000/1890	22.50	20.50	0.190	1.58	0.301	NO
Receiver off		50%			54	376000/1880	22.50	20.50	0.269	1.58	0.427	NO		
Top Edge		Receiver off			1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Receiver off		50%			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Bottom Edge	Receiver off	1	214	378000/1890	22.50	20.50	0.451	1.58	0.714	NO				
Receiver off	50%	54	376000/1880	22.50	20.50	0.538	1.58	0.852	NO					
n5	ANT0	Back Side	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	104	167300/836.5	24.50	24.50	0.521	1.00	0.521	NO
		Receiver off			50%	25	167300/836.5	24.50	24.50	0.420	1.00	0.420	NO	
		Front Side			Receiver off	1	104	167300/836.5	24.50	24.50	0.363	1.00	0.363	NO
		Receiver off			50%	25	167300/836.5	24.50	24.50	0.298	1.00	0.298	NO	
		Left Edge			Receiver off	1	104	167300/836.5	24.50	24.50	0.281	1.00	0.281	NO
		Receiver off			50%	25	167300/836.5	24.50	24.50	0.233	1.00	0.233	NO	
		Right Edge			Receiver off	1	104	167300/836.5	24.50	24.50	0.118	1.00	0.118	NO
		Receiver off			50%	25	167300/836.5	24.50	24.50	0.105	1.00	0.105	NO	

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		Top Edge			Receiver off	1	104	167300/836.5	24.50	24.50	0.511	1.00	0.511	NO
		Receiver off			50%	25	167300/836.5	24.50	24.50	0.417	1.00	0.417	NO	
		Bottom Edge			Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Receiver off			50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Back Side			Receiver off	1	104	167300/836.5	24.50	24.50	0.552	1.00	0.552	NO
n48	ANT2	Back Side	SA	DFT-s-OFDM QPSK	Receiver off	1	1	643332/3649.98	23.00	22.00	0.794	1.26	0.999	NO
					Receiver off	50%	67	640000/3600	23.00	22.00	0.796	1.26	1.002	NO
		Front Side			Receiver off	1	1	643332/3649.98	23.00	22.00	0.252	1.26	0.317	NO
					Receiver off	50%	67	640000/3600	23.00	22.00	0.280	1.26	0.352	NO
		Left Edge			Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge			Receiver off	1	N/A	643332/3649.98	23.00	22.00	0.751	1.26	0.945	NO
					Receiver off	50%	N/A	640000/3600	23.00	22.00	0.725	1.26	0.913	NO
		Top Edge			Receiver off	1	1	643332/3649.98	23.00	22.00	0.143	1.26	0.180	NO
					Receiver off	50%	67	640000/3600	23.00	22.00	0.137	1.26	0.172	NO
		Bottom Edge			Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side			CP-OFDM QPSK	Receiver off	50%	67	640000/3600	23.00	22.00	0.774	1.26	0.975
				Receiver off		1	1	643332/3649.98	23.00	22.00	0.413	1.26	0.520	NO
		n66		ANT2	Back Side	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	1	352000/1760	24.00	22.00	0.485
Receiver off	50%		54					349000/1745	24.00	22.00	0.490	1.58	0.776	NO
Front Side	Receiver off		1		1			352000/1760	24.00	22.00	0.285	1.58	0.451	NO
	Receiver off		50%		54			349000/1745	24.00	22.00	0.308	1.58	0.487	NO
Left Edge	Receiver off		1		N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Receiver off		50%		N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Receiver off		1		1			352000/1760	24.00	22.00	0.314	1.58	0.497	NO
	Receiver off		50%		54			349000/1745	24.00	22.00	0.266	1.58	0.421	NO
Top Edge	Receiver off		1		1			352000/1760	24.00	22.00	0.255	1.58	0.405	NO
	Receiver off		50%		54			349000/1745	24.00	22.00	0.252	1.58	0.400	NO
Bottom Edge	Receiver off		1		N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Receiver off		50%		N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Back Side	Receiver off		50%		54			349000/1745	24.00	22.00	0.407	1.58	0.645	NO
ANT1	NSA		Back Side	DFT-s-OFDM QPSK	Receiver off	1	214	346000/1730	22.50	21.50	0.272	1.26	0.343	NO
					Receiver off	50%	54	349000/1745	22.50	21.50	0.389	1.26	0.490	NO
			Front Side		Receiver off	1	214	346000/1730	22.50	21.50	0.143	1.26	0.181	NO
					Receiver off	50%	54	349000/1745	22.50	21.50	0.133	1.26	0.167	NO
			Left Edge		Receiver off	1	214	346000/1730	22.50	21.50	0.001	1.26	0.001	NO
					Receiver off	50%	54	349000/1745	22.50	21.50	0.001	1.26	0.001	NO
			Right Edge		Receiver off	1	214	346000/1730	22.50	21.50	0.069	1.26	0.087	NO
					Receiver off	50%	54	349000/1745	22.50	21.50	0.076	1.26	0.095	NO
			Top Edge		Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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					Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Bottom Edge			Receiver off	1	214	346000/1730	22.50	21.50	0.338	1.26	0.425	NO	
		Receiver off			50%	54	349000/1745	22.50	21.50	0.339	1.26	0.426	NO		
n77 PC2	ANT2	Back Side	SA&NSA	DFT-s-OFDM QPSK	Receiver off	1	271	662000/3930	20.00	19.00	0.656	1.26	0.826	NO	
					Receiver off	50%	67	662000/3930	20.00	19.00	0.658	1.26	0.829	NO	
		Front Side			Receiver off	1	271	662000/3930	20.00	19.00	0.208	1.26	0.262	NO	
					Receiver off	50%	67	662000/3930	20.00	19.00	0.228	1.26	0.287	NO	
		Left Edge			Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge			Receiver off	1	271	662000/3930	20.00	19.00	0.498	1.26	0.626	NO	
					Receiver off	50%	67	662000/3930	20.00	19.00	0.494	1.26	0.622	NO	
		Top Edge			Receiver off	1	271	662000/3930	20.00	19.00	0.165	1.26	0.208	NO	
					Receiver off	50%	67	662000/3930	20.00	19.00	0.163	1.26	0.206	NO	
		Bottom Edge			Receiver off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					Receiver off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side			Receiver off	1	271	633332/3500	20.00	19.00	0.649	1.26	0.817	NO	
					Receiver off	50%	67	633332/3500	20.00	19.00	0.634	1.26	0.798	NO	
					Receiver off	50%	67	662000/3930	20.00	19.00	0.525	1.26	0.661	NO	

Product-specific 10g SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Type	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
LTE 7	ANT4	Back Side	0	QPSK	Standalone & ENDC	Receiver off	1	99	20850/2510	21.50	21.18	2.290	-0.038	1.08	2.465	72
			0	QPSK		Receiver off	1	0	21100/2535	21.50	21.08	2.190	0.060	1.10	2.412	/
			0	QPSK		Receiver off	1	99	21350/2560	21.50	20.98	1.930	0.040	1.13	2.175	/
			0	QPSK		Receiver off	50%	50	20850/2510	21.50	21.07	1.960	0.098	1.10	2.164	/
			0	QPSK		Receiver off	50%	0	21100/2535	21.50	21.03	1.750	-0.014	1.11	1.950	/
			0	QPSK		Receiver off	50%	50	21350/2560	21.50	20.81	1.590	0.090	1.17	1.864	/
			0	QPSK		Receiver off	100%	0	21100/2535	21.50	20.90	2.050	-0.022	1.15	2.354	/
			0	QPSK		Receiver off	100%	0	20850/2510	21.50	20.82	1.670	0.150	1.17	1.953	/
			0	QPSK		Receiver off	100%	0	21350/2560	21.50	20.70	1.540	0.020	1.20	1.851	/
		Back Side Repeat	0	QPSK		Receiver off	1	99	20850/2510	21.50	21.18	2.150	0.010	1.08	2.314	/
		Back Side Battery2	0	QPSK		Receiver off	1	99	20850/2510	21.50	21.18	2.110	0.021	1.08	2.271	/

10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific 10-g SAR
Main Antenna + Bluetooth	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 2.4GHz	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5GHz	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5GHz + Bluetooth	Yes	Yes	Yes	Yes
Wi-Fi 2.4GHz + Wi-Fi 5GHz	N/A	N/A	N/A	N/A

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 $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) 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 Value for GSM/WCDMA/LTE

SAR (W/Kg) Test Position		GSM 850	GSM 1900	WCDMA Band II	WCDMA Band V	LTE 2		LTE 5	LTE 7		LTE 12	LTE 13	LTE48	LTE 66		MAX. SAR
		Standal one	Standal one	Standalone	Standalone	Standa lone& ENDC	ENDC	Standa lone& ENDC	Standa lone	ENDC	Standa lone	Standa lone& ENDC	Standa lone& ENDC	Standa lone& ENDC	ENDC	
		ANT0	ANT2	ANT2	ANT0	ANT2	ANT1	ANT0	ANT4	ANT4	ANT0	ANT0	ANT2	ANT2	ANT1	
Head	Left Cheek	0.665	0.641	0.882	0.592	0.722	0.104	0.375	0.377	0.133	0.408	0.395	0.432	0.634	0.056	0.882
	Left Tilt	0.679	0.269	0.275	0.478	0.281	0.065	0.721	0.337	0.114	0.421	0.816	0.246	0.257	0.048	0.816
	Right Cheek	0.774	0.283	0.359	0.726	0.309	0.224	1.043	0.971	0.337	0.635	0.910	0.086	0.311	0.086	1.043
	Right Tilt	0.761	0.293	0.351	0.540	0.339	0.083	0.728	0.473	0.183	0.451	0.751	0.091	0.340	0.052	0.761
Body worn	Back Side	0.222	0.179	0.488	0.407	0.458	0.375	0.493	0.667	0.452	0.294	0.473	0.415	0.364	0.138	0.667
	Front Side	0.151	0.135	0.384	0.263	0.340	0.264	0.309	0.395	0.179	0.179	0.308	0.090	0.243	0.080	0.395
Hotspot	Back Side	0.587	0.817	0.722	0.407	0.621	0.507	0.493	1.265	0.625	0.294	0.473	0.621	0.432	0.267	1.265
	Front Side	0.359	0.483	0.447	0.263	0.410	0.307	0.309	0.425	0.257	0.179	0.308	0.152	0.268	0.126	0.483
	Left Edge	0.242	N/A	N/A	0.168	N/A	0.001	0.211	0.494	0.295	0.182	0.275	N/A	N/A	0.001	0.494
	Right Edge	0.134	0.483	0.467	0.094	0.470	0.205	0.120	0.000	0.000	0.073	0.111	0.407	0.274	0.073	0.483
	Top Edge	0.569	0.453	0.414	0.433	0.389	N/A	0.524	0.217	0.093	0.233	0.531	0.104	0.185	N/A	0.569
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	0.749	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.288	0.749
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.465	N/A	N/A	N/A	N/A	N/A	2.465
	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	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	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	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	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	N/A

The Maximum SAR Value for NR

SAR (W/Kg) Test Position		n2	n2	n2	n5	n48	n66	n66	n66	n77	n77	MAX. SAR
		SA	SA&NSA	NSA	SA&NSA	SA	SA	SA&NSA	NSA	SA	NSA	
		ANT2	ANT1	ANT2	ANT0	ANT0	ANT2	ANT1	ANT2	ANT2	ANT2	
Head	Left Cheek	1.122	0.159	0.657	0.582	1.054	0.906	0.034	0.551	0.793	0.793	1.122
	Left Tilt	0.624	0.081	0.403	0.582	0.636	0.427	0.019	0.427	0.417	0.417	0.636
	Right Cheek	0.425	0.252	0.311	0.702	0.224	0.274	0.055	0.274	0.144	0.144	0.702
	Right Tilt	0.438	0.142	0.438	0.797	0.209	0.289	0.039	0.289	0.122	0.122	0.797
Body worn	Back Side	0.716	0.354	N/A	0.521	0.781	0.458	0.131	N/A	0.508	N/A	0.781
	Front Side	0.508	0.233	N/A	0.363	0.309	0.406	0.053	N/A	0.185	N/A	0.508
Hotspot	Back Side	0.601	0.598	N/A	0.552	0.796	0.490	0.389	N/A	0.658	N/A	0.796
	Front Side	0.310	0.349	N/A	0.363	0.280	0.308	0.143	N/A	0.243	N/A	0.363
	Left Edge	0.000	0.001	N/A	0.281	0.000	0.000	0.001	N/A	0.000	N/A	0.281
	Right Edge	0.360	0.269	N/A	0.118	0.751	0.314	0.076	N/A	0.527	N/A	0.751
	Top Edge	0.326	0.000	N/A	0.511	0.143	0.255	0.000	N/A	0.174	N/A	0.511

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	Bottom Edge	0.000	0.538	N/A	0.000	0.000	0.000	0.339	N/A	0.000	N/A	0.538
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	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

The Maximum SAR Value for EN-DC

	Band	DC_2A_n2A	DC_5A_n2A	DC_13A_n2A	DC_48A_n2A	DC_66A_n2A	DC_2A_n5A	DC_48A_n5A	DC_66A_n5A	DC_2A_n66A	DC_5A_n66A	DC_7A_n66A	DC_13A_n66A	DC_48A_n66A	DC_66A_n66A	DC_2A_n77A	DC_5A_n77A	DC_7A_n77A	DC_13A_n77A	DC_48A_n77A	EN-DC MAX Report SAR
Head	Position	Ant 1+Ant 2	Ant 0+Ant 2	Ant 0+Ant 2	Ant 2+Ant 1	Ant 1+Ant 2	Ant 2+Ant 0	Ant 2+Ant 0	Ant 1+Ant 2	Ant 0+Ant 2	Ant 1+Ant 2	Ant 4+Ant 1	Ant 0+Ant 2	Ant 2+Ant 1	Ant 1+Ant 2	Ant 1+Ant 2	Ant 0+Ant 2	Ant 4+Ant 2	Ant 0+Ant 2	Ant 1+Ant 0	
	Left cheek	0.761	1.031	1.052	0.591	1.291	1.304	1.015	1.217	0.656	0.926	0.167	0.946	0.466	0.607	0.897	1.167	0.926	1.188	0.848	1.304
	Left Tilt	0.468	1.124	1.219	0.326	0.660	0.863	0.828	0.839	0.492	1.148	0.133	1.242	0.265	0.474	0.482	1.138	0.532	1.233	0.465	1.242
	Right cheek	0.534	1.354	1.220	0.338	0.622	1.011	0.788	1.013	0.497	1.317	0.392	1.183	0.142	0.359	0.368	1.186	0.481	1.054	0.230	1.354
Body worn	Right Tilt	0.521	1.165	1.189	0.233	0.778	1.136	0.888	1.137	0.373	1.017	0.222	1.040	0.130	0.341	0.206	0.850	0.305	0.873	0.175	1.189
	Back Side	1.091	1.209	1.189	0.769	0.718	0.980	0.937	0.885	0.833	0.951	0.584	0.931	0.547	0.597	0.883	1.001	0.961	0.981	0.647	1.209
	Front Side	0.772	0.817	0.816	0.323	0.475	0.702	0.453	0.606	0.670	0.715	0.232	0.715	0.143	0.486	0.448	0.493	0.364	0.493	0.264	0.817
	Back Side	1.107	1.093	1.073	1.219	1.029	1.173	1.173	0.984	0.996	0.982	1.014	0.962	1.010	0.757	1.165	1.151	1.283	1.131	0.925	1.283
Hotspot	Front Side	0.617	0.618	0.618	0.502	0.617	0.773	0.515	0.631	0.615	0.616	0.401	0.616	0.296	0.434	0.550	0.552	0.500	0.551	0.370	0.773
	Left Edge	N/A	0.211	0.275	N/A	N/A	0.281	0.281	N/A	0.211	0.296	0.275	N/A	N/A	N/A	0.211	0.295	0.275	0.001	0.296	
	Right Edge	0.566	0.481	0.472	0.677	0.543	0.588	0.525	0.391	0.519	0.434	0.076	0.425	0.483	0.387	0.732	0.647	0.527	0.638	0.600	0.732
	Top Edge	0.326	0.850	0.857	0.104	0.185	0.900	0.615	0.696	0.255	0.779	0.093	0.786	0.104	0.255	0.174	0.698	0.268	0.705	0.174	0.900
Product Specific 10-g SAR	Bottom Edge	0.749	N/A	N/A	0.538	0.538	N/A	N/A	N/A	0.749	N/A	0.339	N/A	0.339	0.288	0.749	N/A	N/A	N/A	0.288	0.749
	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	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	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	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	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	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	N/A	N/A	N/A	N/A	N/A	N/A

The Maximum SAR Value for UL CA

	Band	CA_2A-4A	CA_2A-5A	CA_2A-13A	CA_2A-48A	CA_2A-66A	CA_4A-5A	CA_4A-13A	CA_5A-66A	CA_13A-66A	CA_48A-66A	ULMAX Report SAR
Head	Position	Ant 1+Ant 2	Ant 2+Ant 0	Ant 2+Ant 0	Ant 1+Ant 2	Ant 1+Ant 2	Ant 2+Ant 0	Ant 2+Ant 0	Ant 0+Ant 2	Ant 0+Ant 2	Ant 2+Ant 1	
	Left cheek	0.739	1.096	1.117	0.537	0.739	1.009	1.029	1.009	1.029	0.488	1.117
	Left Tilt	0.322	1.002	1.097	0.310	0.322	0.978	1.073	0.978	1.073	0.293	1.097
	Right cheek	0.535	1.352	1.219	0.310	0.535	1.354	1.221	1.354	1.221	0.172	1.354
Body worn	Right Tilt	0.424	1.067	1.090	0.175	0.424	1.068	1.091	1.068	1.091	0.144	1.091
	Back Side	0.739	0.951	0.931	0.790	0.739	0.856	0.836	0.856	0.836	0.554	0.951
	Front Side	0.507	0.648	0.648	0.354	0.507	0.551	0.551	0.551	0.551	0.170	0.648
	Back Side	0.938	0.924	1.093	1.127	0.938	0.924	0.904	0.924	0.904	0.888	1.127
Hotspot	Front Side	0.575	0.577	0.719	0.460	0.575	0.577	0.576	0.577	0.576	0.279	0.719
	Left Edge	0.001	0.211	0.275	0.001	0.001	0.211	0.275	0.211	0.275	0.001	0.275
	Right Edge	0.479	0.394	0.582	0.613	0.479	0.394	0.385	0.394	0.385	0.481	0.613
	Top Edge	0.185	0.709	0.920	0.104	0.185	0.709	0.716	0.709	0.716	0.104	0.920
	Bottom Edge	0.749	0.000	0.000	0.749	0.749	0.000	0.000	0.000	0.000	0.288	0.749

About Bluetooth, Wi-Fi and Main-Antenna

Test Position		SAR ₁ (W/kg)	GSM/ WCDMA/ LTE	NR SA	EN-DC	UL CA	Wi-Fi 2.4GHz	Wi-Fi 5GHz			Bluetooth	MAX. ΣSAR	
								U-NII-2A	U-NII-2C	U-NII-3			
		1	2	3	4	5	6	7	8	9		Max (1-4)+Max(5-9)	Max (1-4) + Max(6-8)+9
Head	Left, Cheek	0.882	1.122	1.304	1.117	0.075	0.063	0.056	0.027	0.153		1.457	1.520
	Left, Tilt	0.816	0.636	1.242	1.097	0.082	0.122	0.110	0.071	0.118		1.364	1.482
	Right, Cheek	1.043	0.702	1.354	1.354	0.039	0.098	0.106	0.075	0.067		1.460	1.527
	Right, Tilt	0.761	0.797	1.189	1.091	0.030	0.134	0.123	0.082	0.053		1.323	1.376
Body worn	Back Side	0.667	0.781	1.209	0.951	0.127	0.104	0.106	0.086	0.030		1.336	1.345
	Front Side	0.395	0.508	0.817	0.648	0.065	0.149	0.231	0.211	0.023		1.048	1.071
Hotspot	Back Side	1.265	0.796	1.283	1.127	0.075	0.269	0.268	0.247	0.030		1.552	1.582
	Front Side	0.483	0.363	0.773	0.719	0.050	0.075	0.087	0.084	0.023		0.860	0.883
	Left Edge	0.494	0.281	0.296	0.275	0.001	0.045	0.048	0.067	0.002		0.561	0.563
	Right Edge	0.483	0.751	0.732	0.613	0.046	0.154	0.110	0.118	0.036		0.905	0.941
	Top Edge	0.569	0.511	0.900	0.920	0.032	0.226	0.201	0.228	0.017		1.148	1.165
	Bottom Edge	0.749	0.538	0.749	0.749	N/A	N/A	N/A	N/A	N/A		0.749	0.749
Product Specific 10-g SAR	Back Side	2.465	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		2.465	2.465
	Front Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.000	0.000
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.000	0.000
	Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.000	0.000
	Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.000	0.000
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.000	0.000

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}

3. MAX. ΣSAR_{1g} = 1.582W/kg < 1.6W/kg and MAX. ΣSAR_{10g} = 2.465W/kg < 4 W/kg, so the Simultaneous transmission SAR with volume scan are not required for Bluetooth, Wi-Fi and Main-Antenna.

11 Measurement Uncertainty

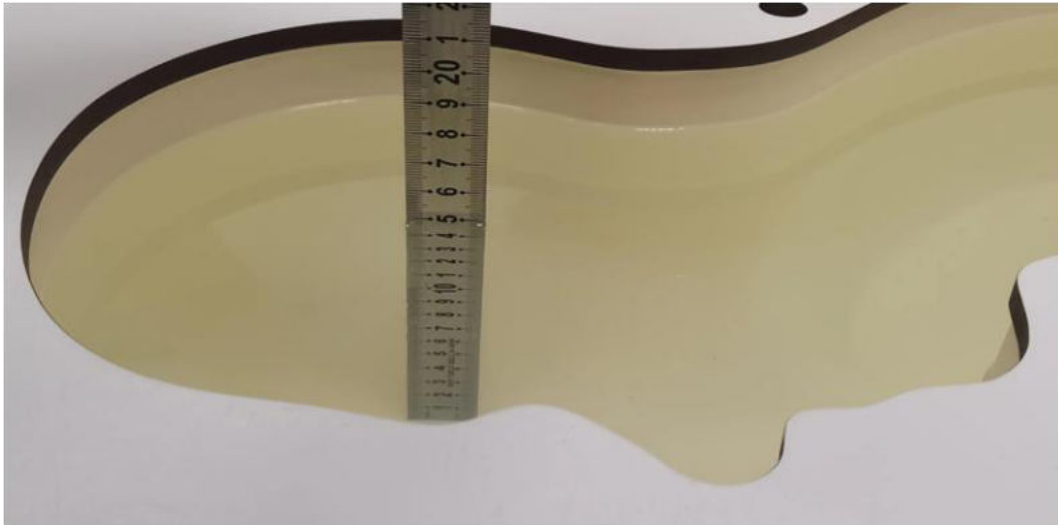
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval. This also applies to the 10-g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

ANNEX A: Test Layout

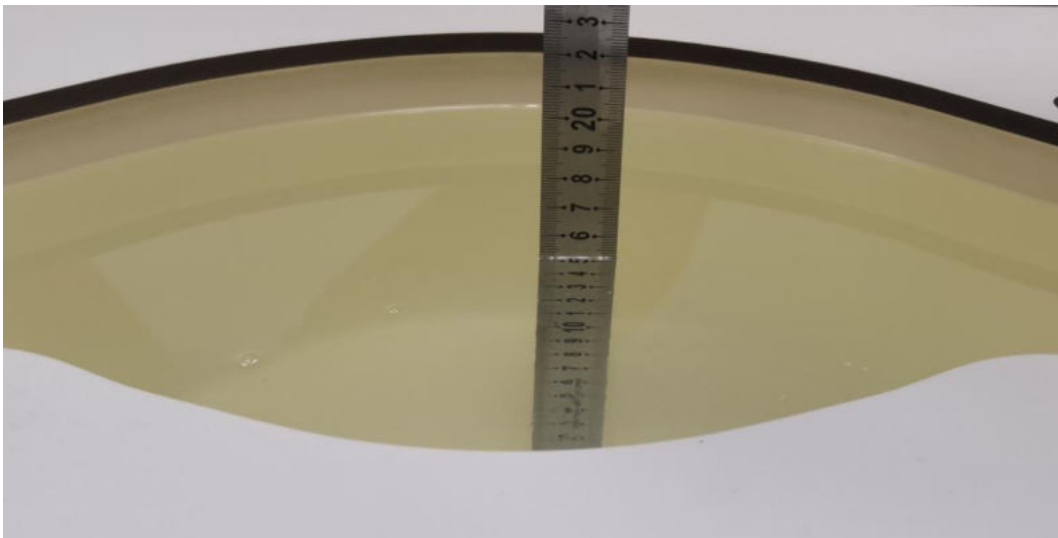


Tissue Simulating Liquids

For the measurement of the field distribution inside the flat phantom with DASY, the phantom must be filled with around 25 liters of homogeneous tissue simulating liquid. For SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is >15 cm, which is shown as below.



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: 2025/3/19

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 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 2.15 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.165V/m; Power Drift = -0.08 dB

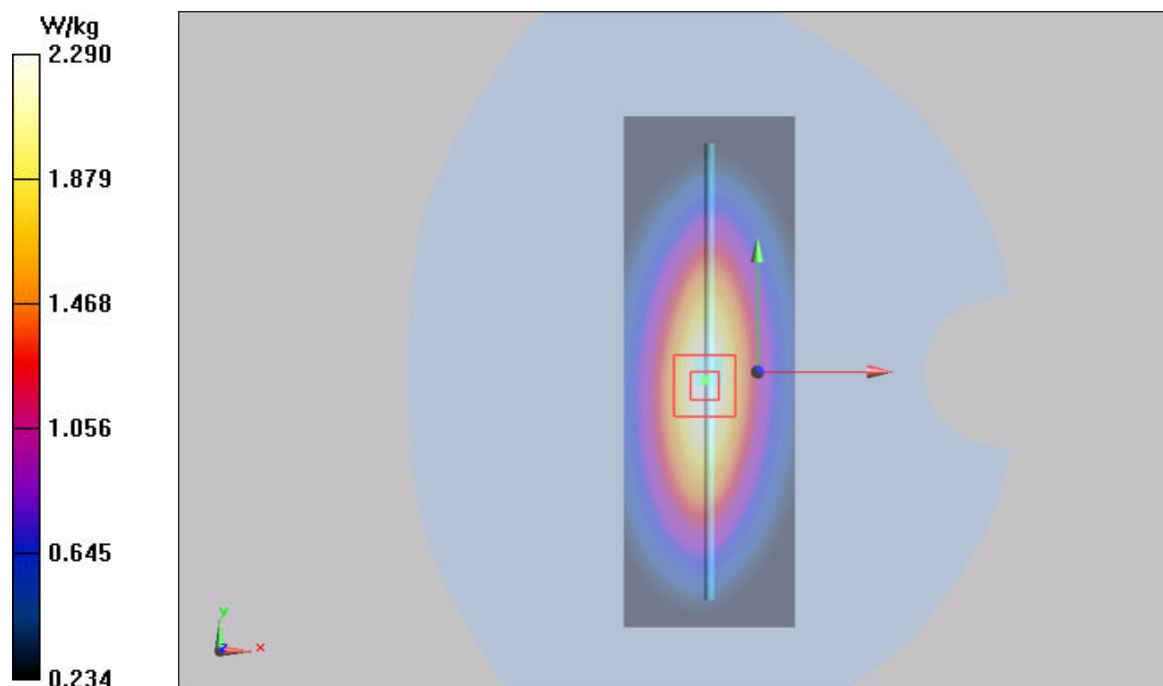
Peak SAR (extrapolated) = 3.16 W/kg

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

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 62.5%

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

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Date: 2025/3/15

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ 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 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 2.58 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.241 V/m; Power Drift = -0.076 dB

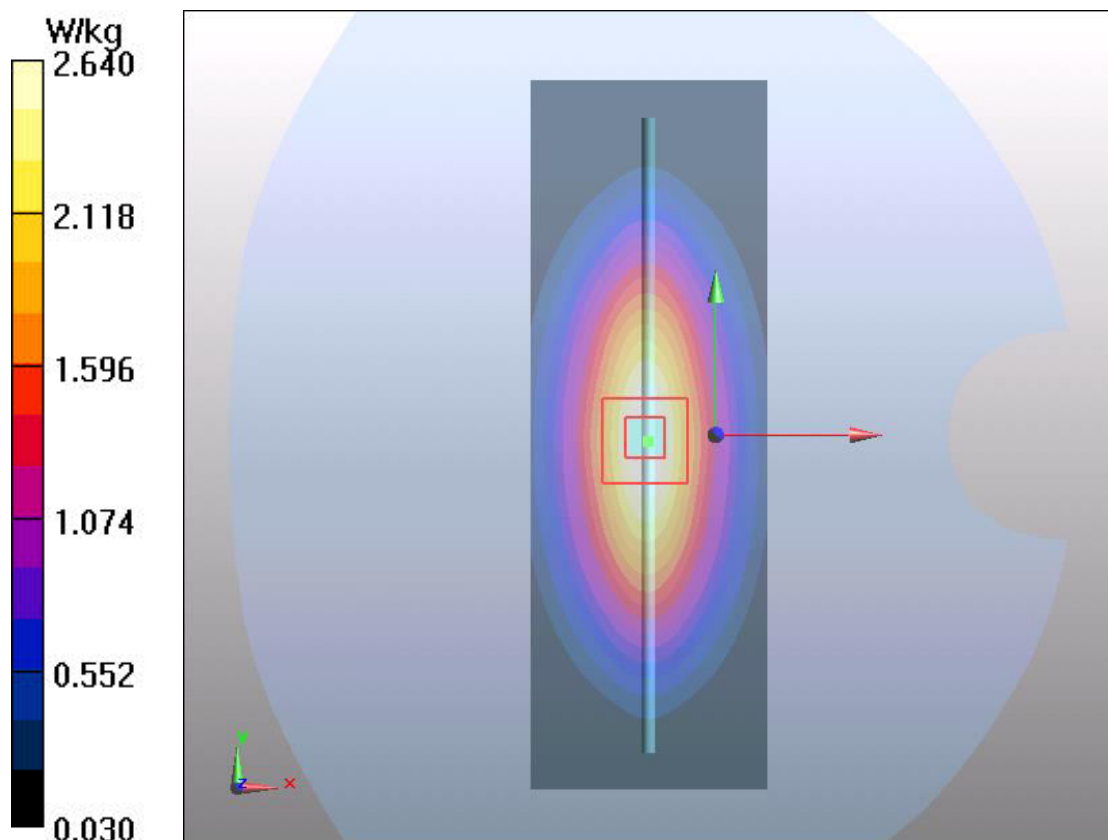
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg

Smallest distance from peaks to all points 3 dB below = 16.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.1%

Maximum value of SAR (measured) = 2.64 W/kg



Plot 3 System Performance Check at 835 MHz TSL**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2**

Date: 2025/3/26

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 41.3$; $\rho = 1000$ 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 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 2.59 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.023 V/m; Power Drift = -0.06 dB

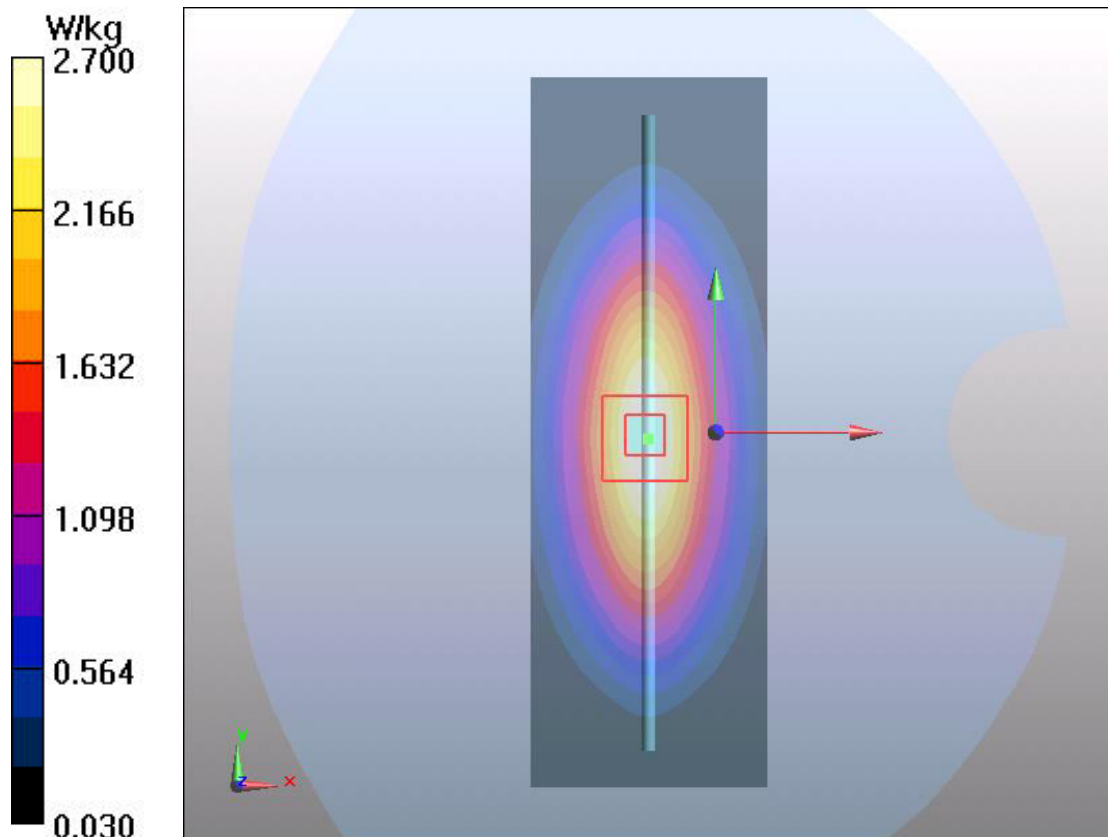
Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.65 W/kg

Smallest distance from peaks to all points 3 dB below = 15.7 mm

Ratio of SAR at M2 to SAR at M1 = 65.4%

Maximum value of SAR (measured) = 2.70 W/kg

**Plot 4 System Performance Check at 1750 MHz TSL**

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

Date: 2025/3/24

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 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 9.18 W/kg

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

Reference Value = 80.385 V/m; Power Drift = 0.075 dB

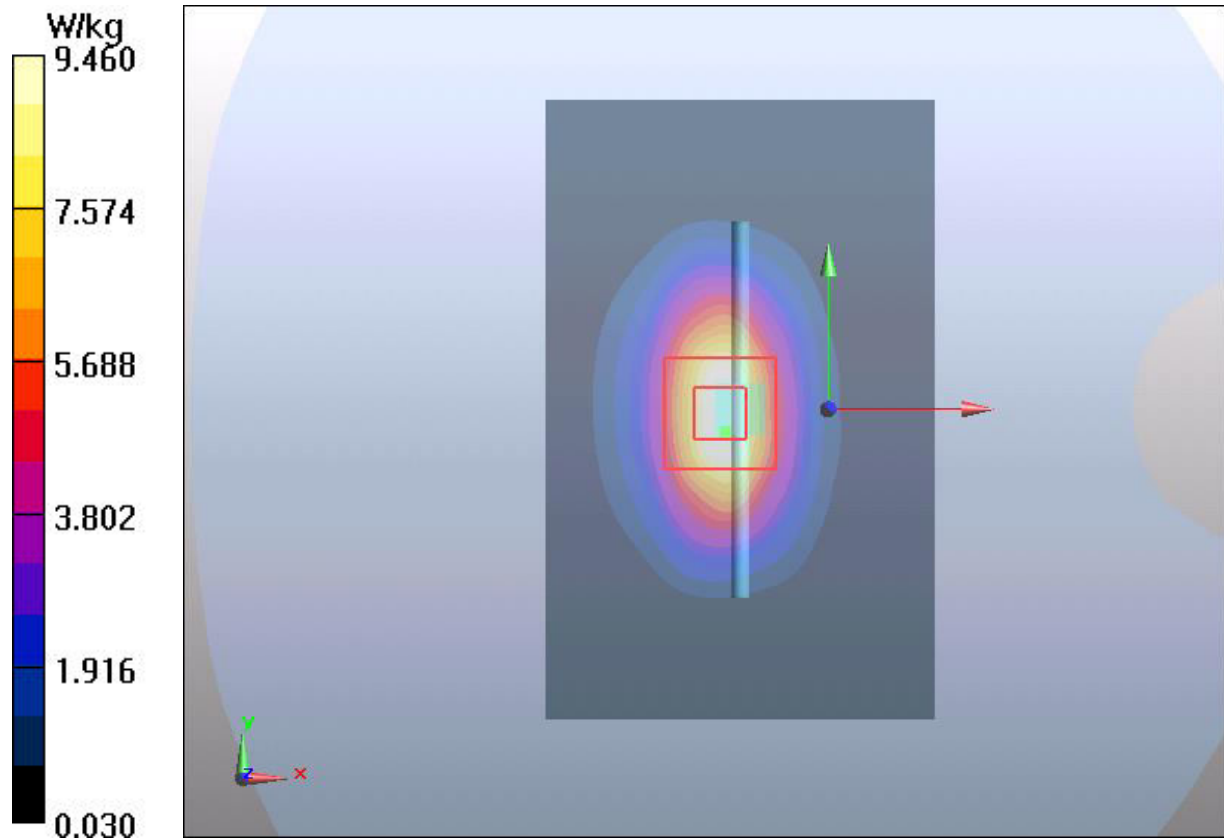
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.95 W/kg; SAR(10 g) = 4.8 W/kg

Smallest distance from peaks to all points 3 dB below = 10mm

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

Maximum value of SAR (measured) = 9.46 W/kg



Plot 5 System Performance Check at 1750 MHz TSL

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

Date: 2025/3/25

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 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 9.77 W/kg

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

Reference Value = 80.134 V/m; Power Drift = 0.055 dB

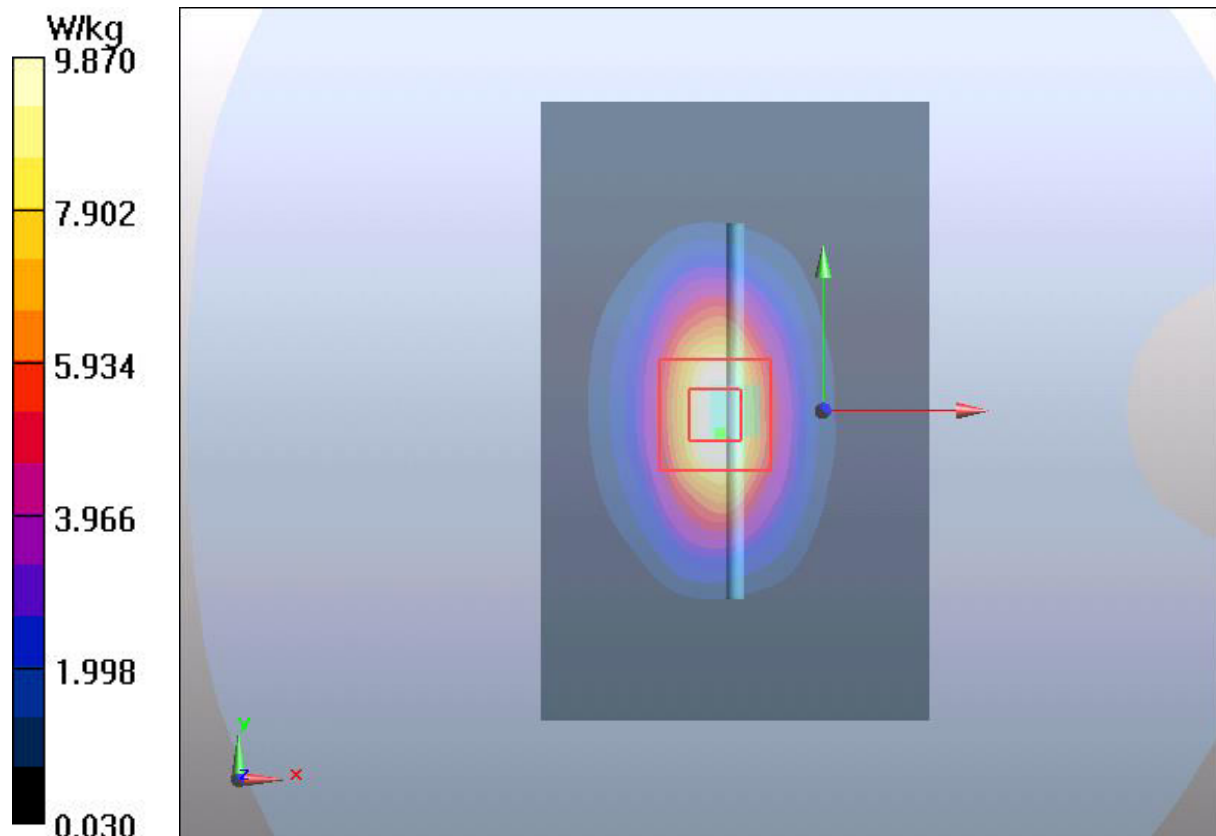
Peak SAR (extrapolated) = 15.81 W/kg

SAR(1 g) = 9.11 W/kg; SAR(10 g) = 4.77 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 9.87 W/kg



Plot 6System Performance Check at 1750 MHz TSL

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

Date: 2025/3/26

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.36$ 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 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 9.11 W/kg

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

Reference Value =78.648 V/m; Power Drift = 0.023 dB

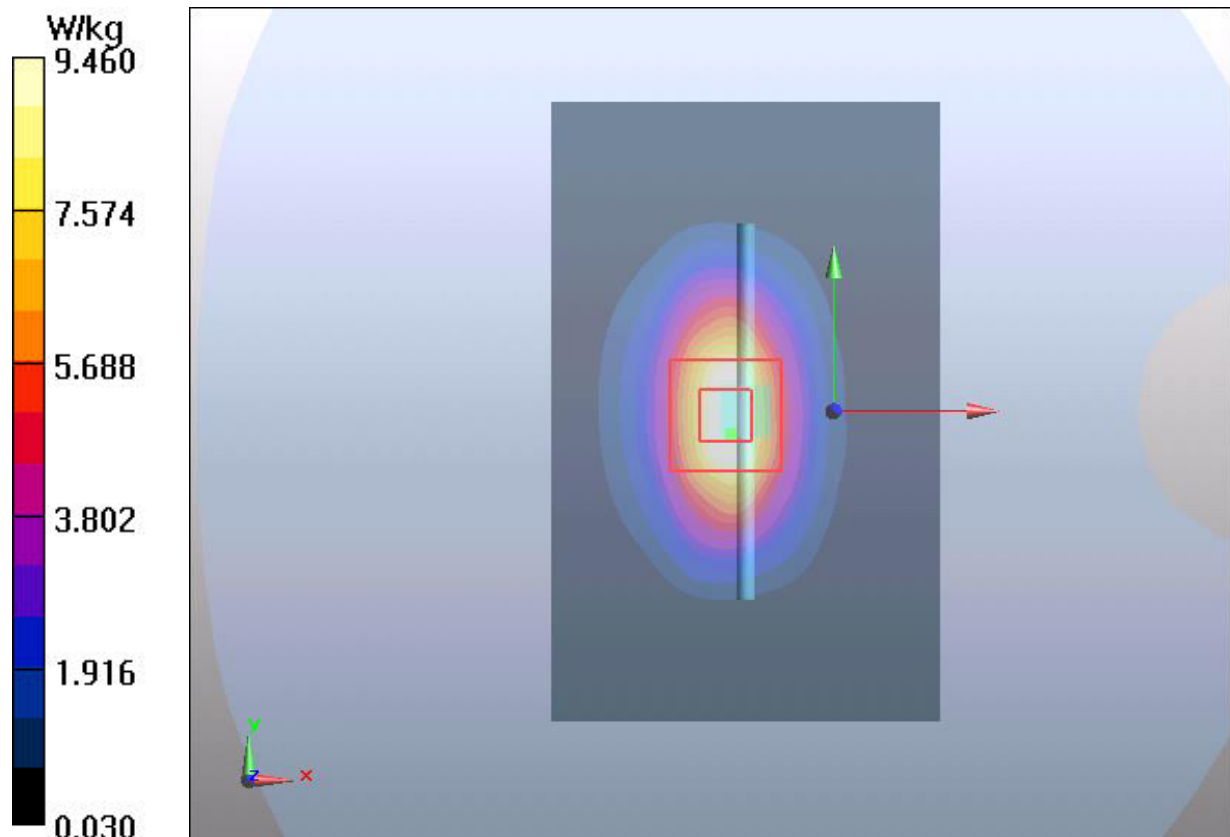
Peak SAR (extrapolated) = 15.74 W/kg

SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.75 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 9.46 W/kg



Plot 7 System Performance Check at 1900 MHz TSL

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

Date: 2025/3/18

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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 10.23 W/kg

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

Reference Value = 85.857V/m; Power Drift = 0.026 dB

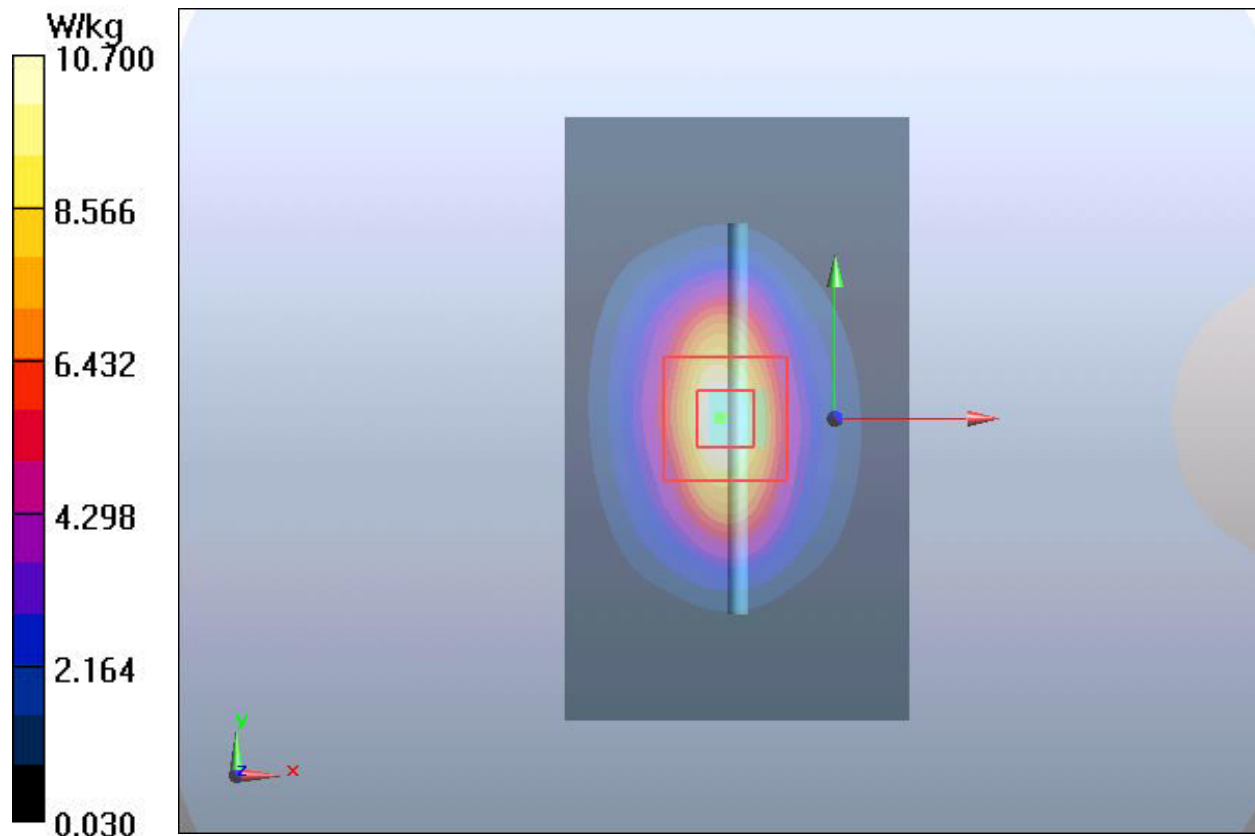
Peak SAR (extrapolated) = 17.84 W/kg

SAR(1 g) = 9.88 W/kg; SAR(10 g) = 4.9 W/kg

Smallest distance from peaks to all points 3 dB below = 11.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 10.70 W/kg



Plot 8 System Performance Check at 1900 MHz TSL

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

Date: 2025/3/20

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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 10.43 W/kg

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

Reference Value = 87.324 V/m; Power Drift = 0.013 dB

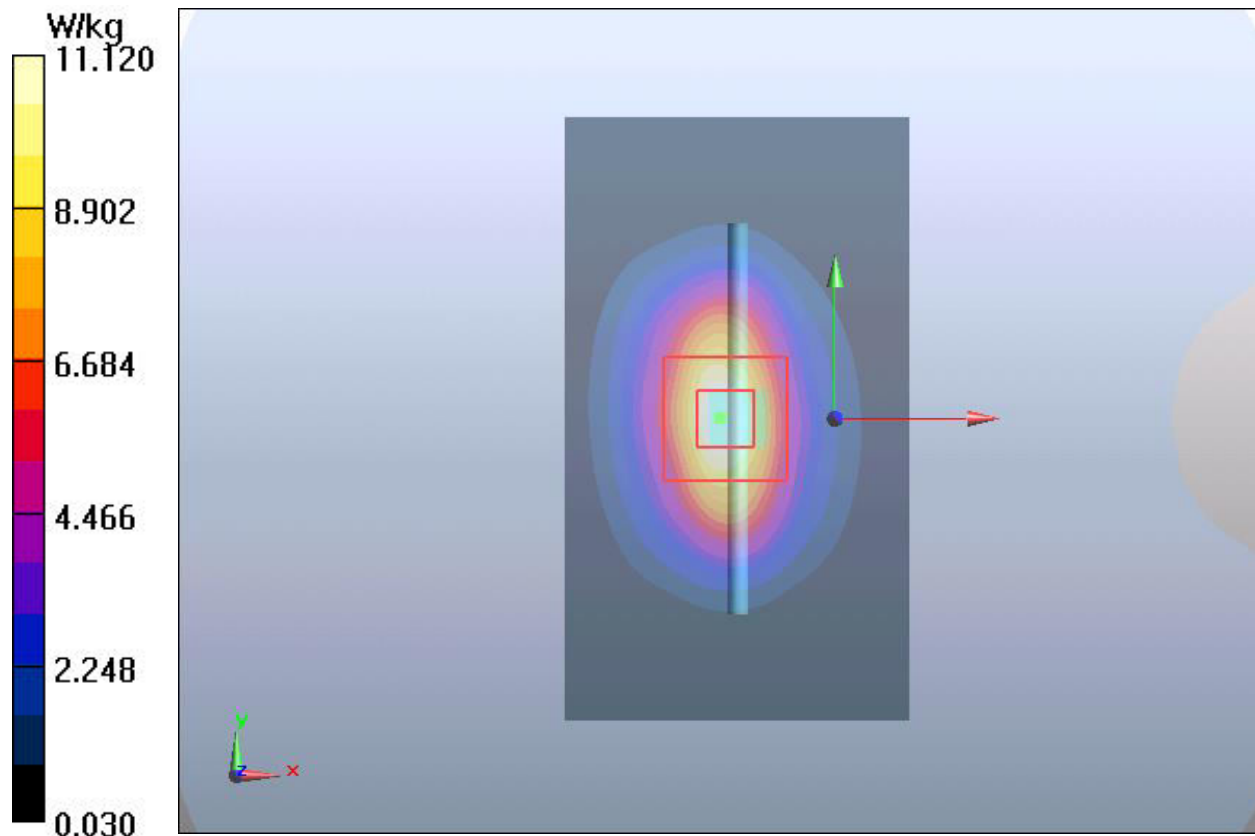
Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 9.85 W/kg; SAR(10 g) = 4.93 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 11.12 W/kg



Plot 9 System Performance Check at 1900 MHz

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

Date: 2025/4/7

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ S/m; $\epsilon_r = 40.0$; $\rho = 1000$ 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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 9.86 W/kg

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

Reference Value = 88.368 V/m; Power Drift = 0.013 dB

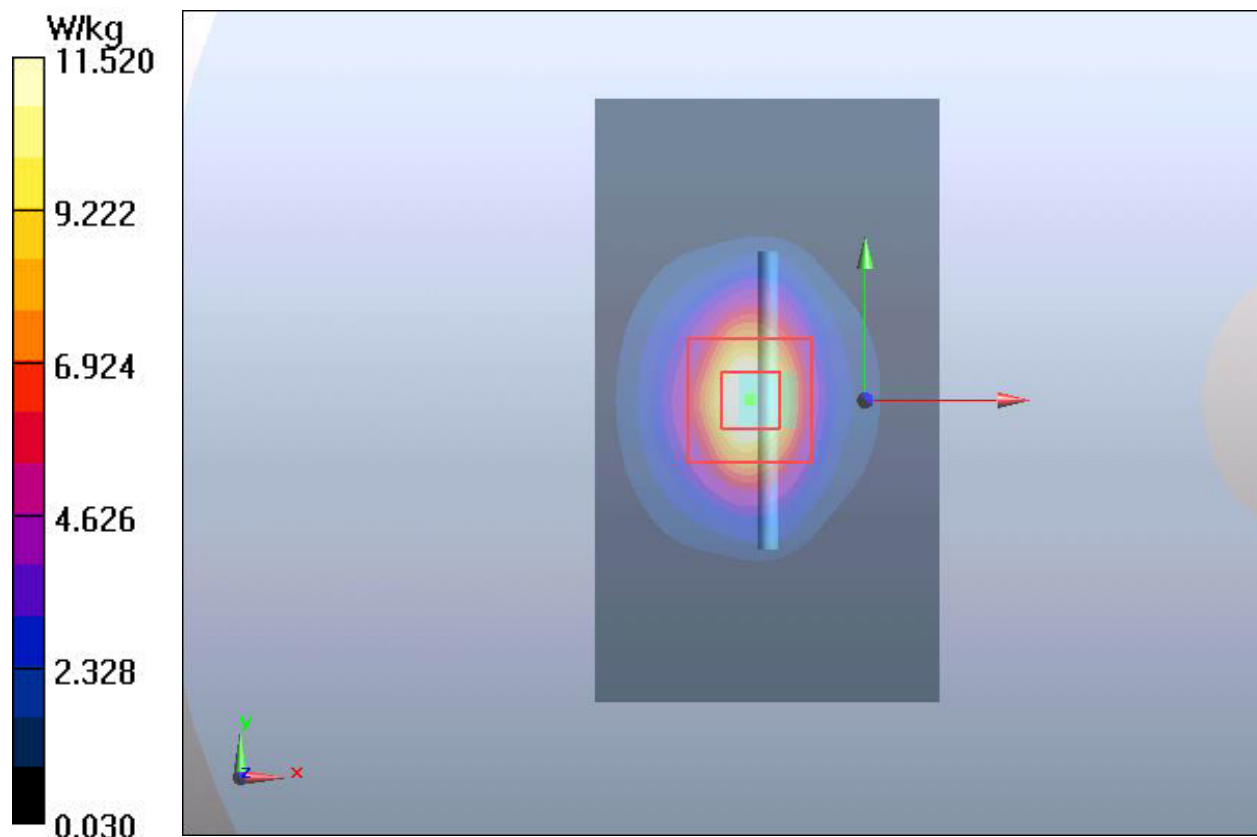
Peak SAR (extrapolated) = 20.12 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 4.99 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

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

Maximum value of SAR (measured) = 11.52 W/kg



Plot 10 System Performance Check at 1900 MHz

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

Date: 2025/4/8

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.5$; $\rho = 1000$ 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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (interpolated) = 11.21 W/kg

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

Reference Value = 86.253 V/m; Power Drift = 0.017 dB

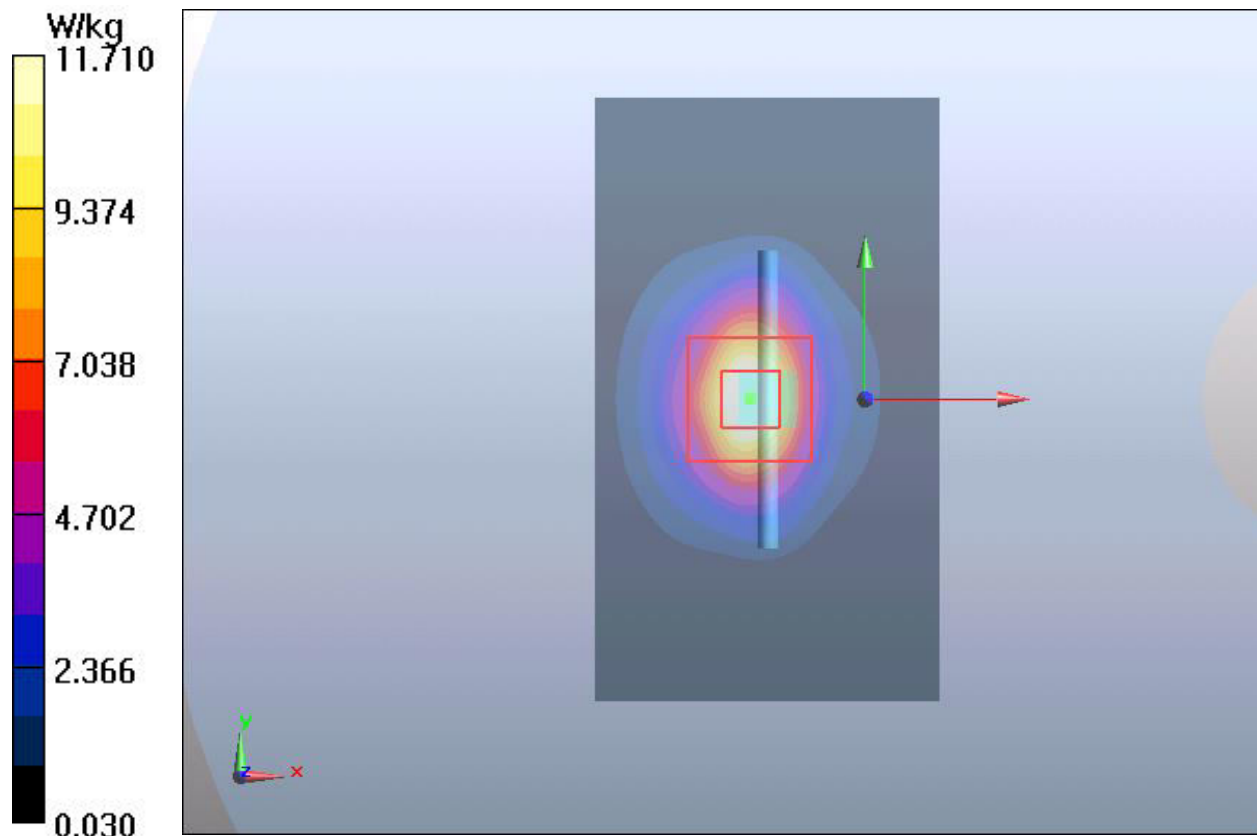
Peak SAR (extrapolated) = 20.05 W/kg

SAR(1 g) = 9.60 W/kg; SAR(10 g) = 4.98 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 11.71 W/kg

**Plot 11 System Performance Check at 2450 MHz TSL****DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2**

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Date: 2025/3/29

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 - SN7689; ConvF(7.62, 8.01, 8.14); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 14.26 W/kg

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

Reference Value = 88.834 V/m; Power Drift = 0.015 dB

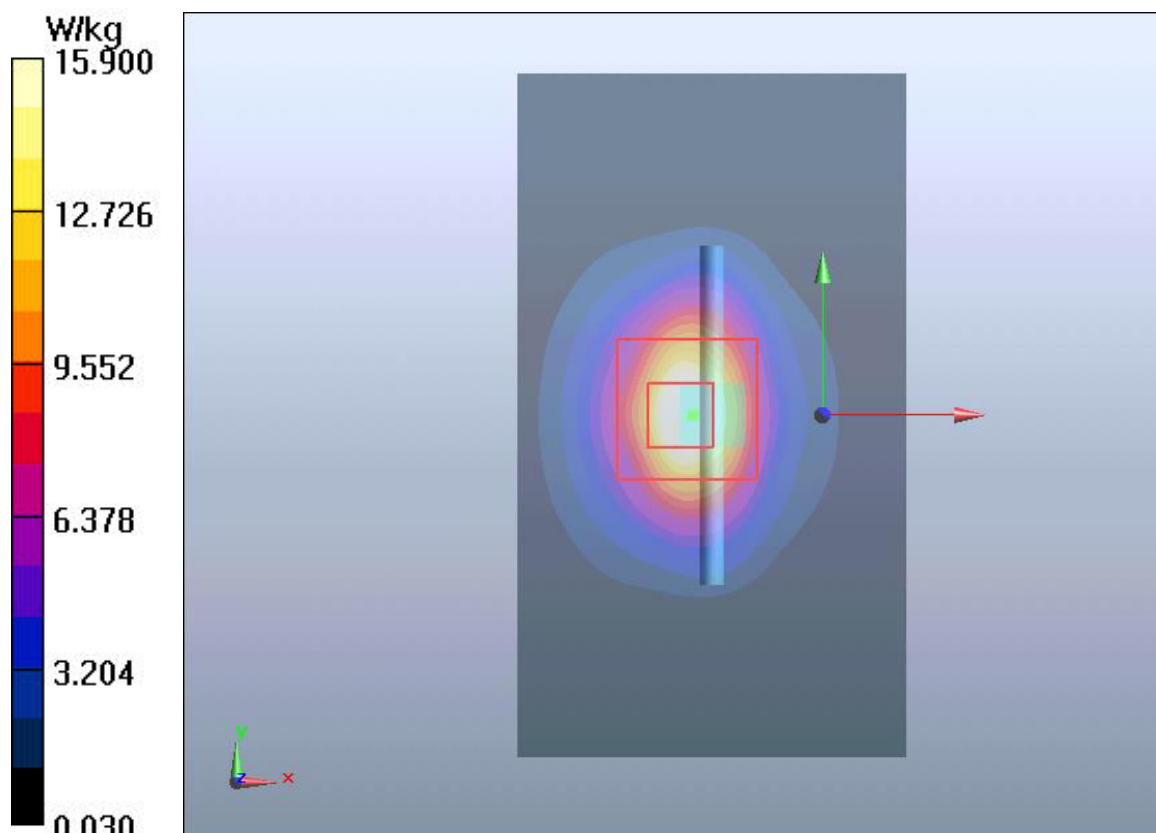
Peak SAR (extrapolated) = 30.10 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.22 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 15.90 W/kg



Plot 12 System Performance Check at 2600 MHz TSL

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

Date: 2025/3/14

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 38.2$; $\rho = 1000$ 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 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 14.43 W/kg

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

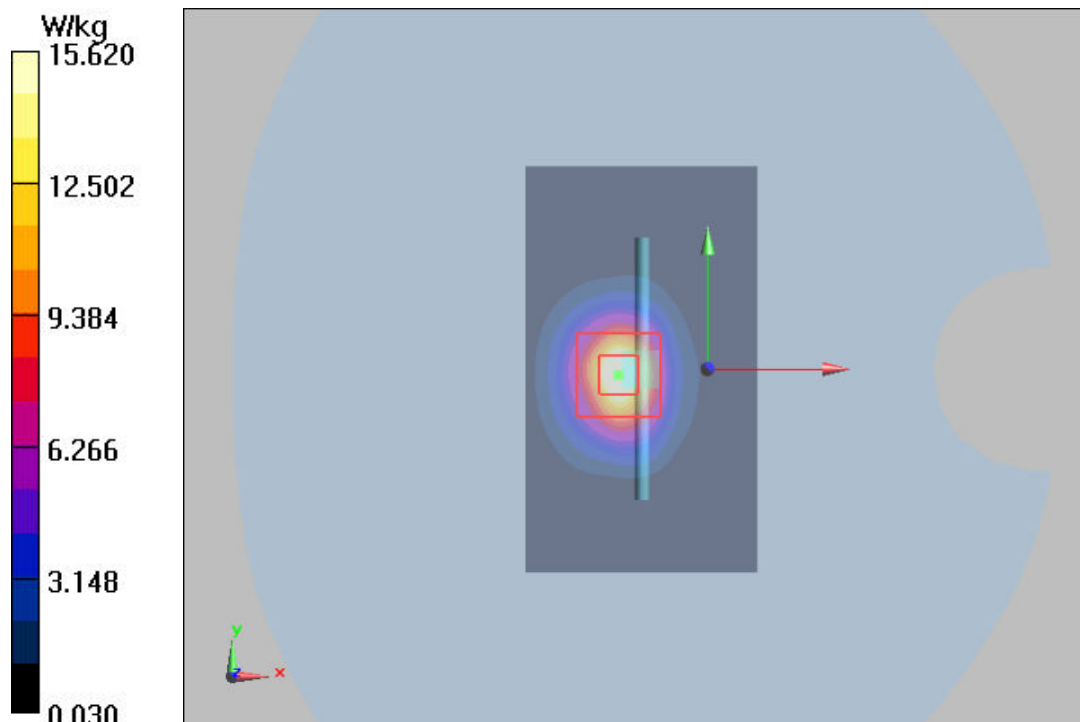
Peak SAR (extrapolated) = 31.85W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.07 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 44.2%

Maximum value of SAR (measured) = 15.62 W/kg



Plot 13 System Performance Check at 3700 MHz TSL

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2

Date: 2025/3/17

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.99$ S/m; $\epsilon_r = 37.9$; $\rho = 1000$ 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 - SN7689; ConvF(6.71, 7.05, 7.17); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 9.57 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.147 V/m; Power Drift = 0.034 dB

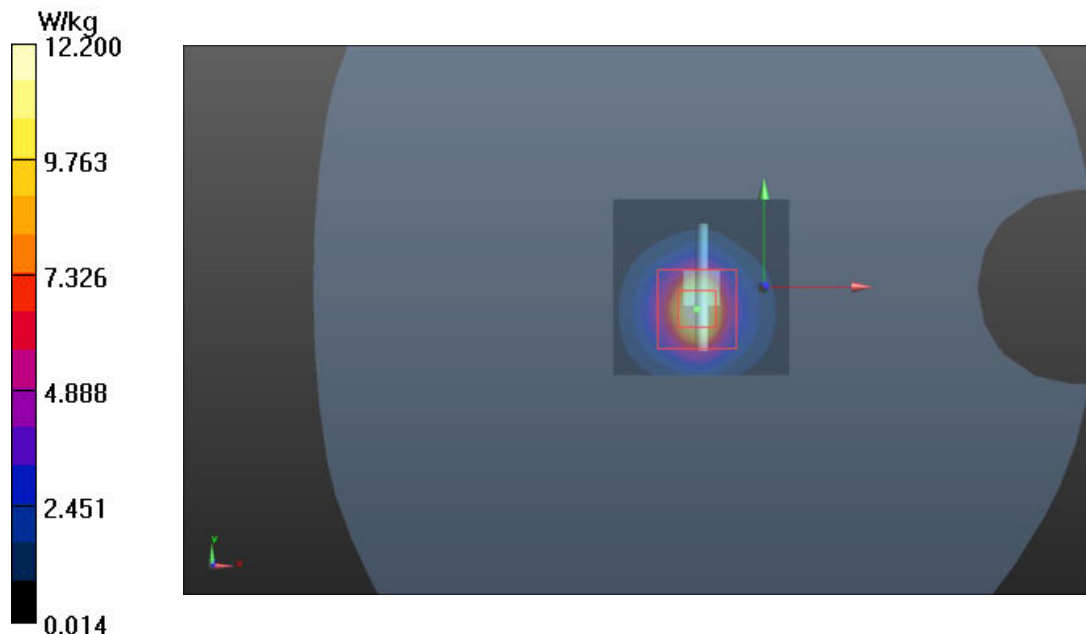
Peak SAR (extrapolated) = 18.13 W/kg

SAR(1 g) = 6.55 W/kg; SAR(10 g) = 2.54 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1= 54.6%

Maximum value of SAR (measured) = 12.20 W/kg



Plot 14 System Performance Check at 3700 MHz TSL

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2

Date: 2025/3/21

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.01$ S/m; $\epsilon_r = 38.0$; $\rho = 1000$ 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 - SN7689; ConvF(6.71, 7.05, 7.17); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 10.03 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.517 V/m; Power Drift = 0.010 dB

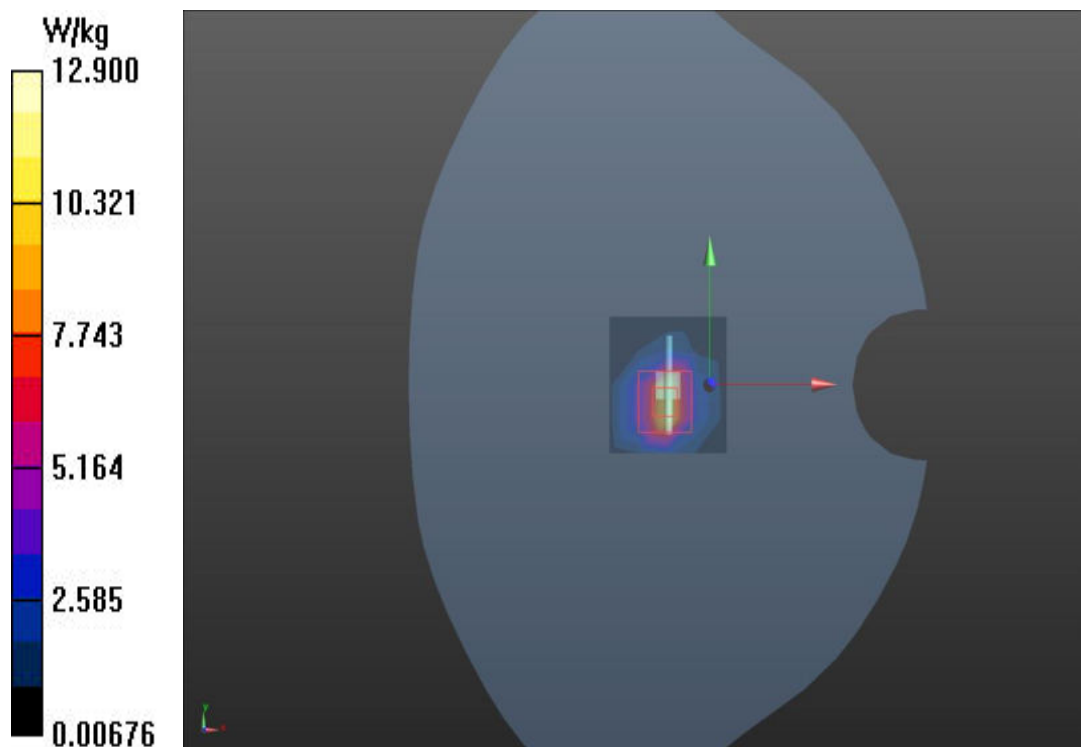
Peak SAR (extrapolated) = 17.68 W/kg

SAR(1 g) = 6.83 W/kg; SAR(10 g) = 2.54 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1= 53.2%

Maximum value of SAR (measured) = 12.90 W/kg



Plot 15 System Performance Check at 3700 MHz TSL

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2

Date: 2025/4/7

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.03$ S/m; $\epsilon_r = 38.1$; $\rho = 1000$ 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 - SN7689; ConvF(6.71, 7.05, 7.17); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 10.82 W/kg

d=10mm, Pin=100mW /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.368 V/m; Power Drift = 0.036 dB

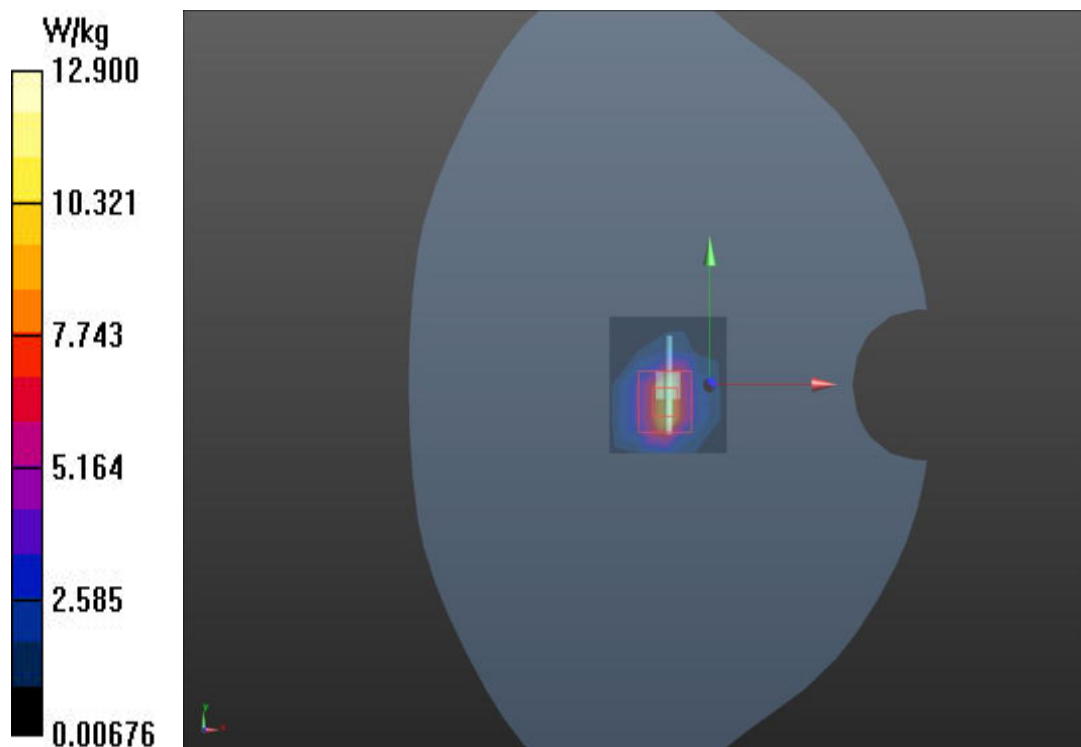
Peak SAR (extrapolated) = 17.15 W/kg

SAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.54 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1= 56.3%

Maximum value of SAR (measured) = 12.900 W/kg



Plot 16 System Performance Check at 3900 MHz TSL

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2

Date: 2025/3/27

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.42$ S/m; $\epsilon_r = 37.9$; $\rho = 1000$ 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 - SN7689; ConvF(6.51, 6.84, 6.95); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 8.94 W/kg

d=10mm, Pin=100mW /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 47.545 V/m; Power Drift = 0.17 dB

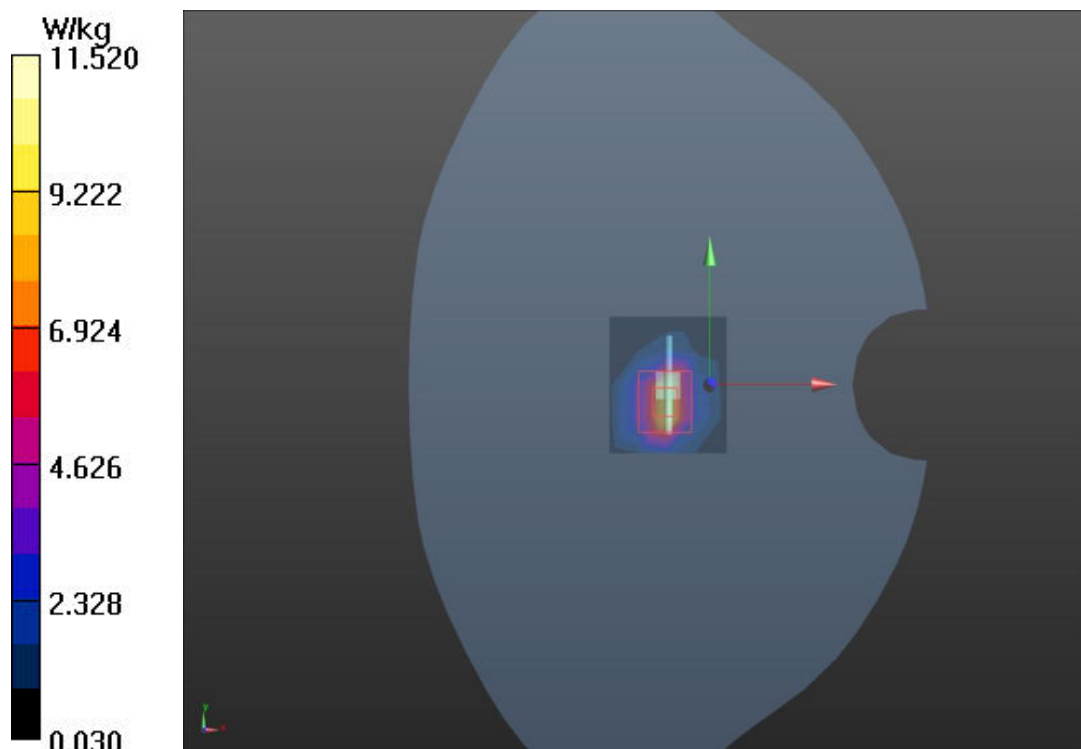
Peak SAR (extrapolated) = 18.22 W/kg

SAR(1 g) = 6.83 W/kg; SAR(10 g) = 2.47 W/kg

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

Ratio of SAR at M2 to SAR at M1= 57.1%

Maximum value of SAR (measured) = 11.52 W/kg



Plot 17 System Performance Check at 5250 MHz TSL

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

Date: 2025/3/28

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 - SN7689; ConvF(5.87, 6.17, 6.27); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 9.14 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 33.654 V/m; Power Drift = -0.095 dB

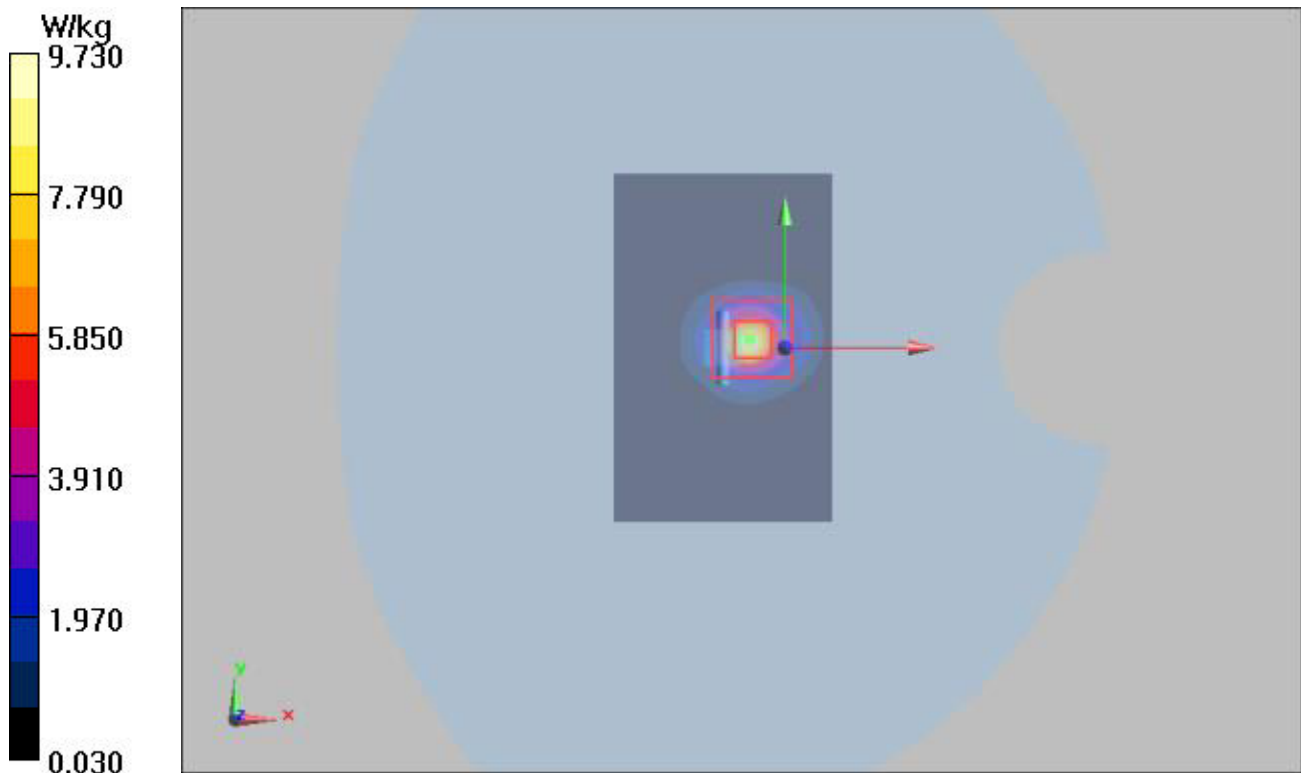
Peak SAR (extrapolated) = 52.20 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 63%

Maximum value of SAR (measured) = 9.73 W/kg



Plot 18 System Performance Check at 5600 MHz TSL

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

Date: 2025/4/1

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 - SN7689; ConvF(5.33, 5.60, 5.70); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 8.25 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 23.142 V/m; Power Drift = -0.028 dB

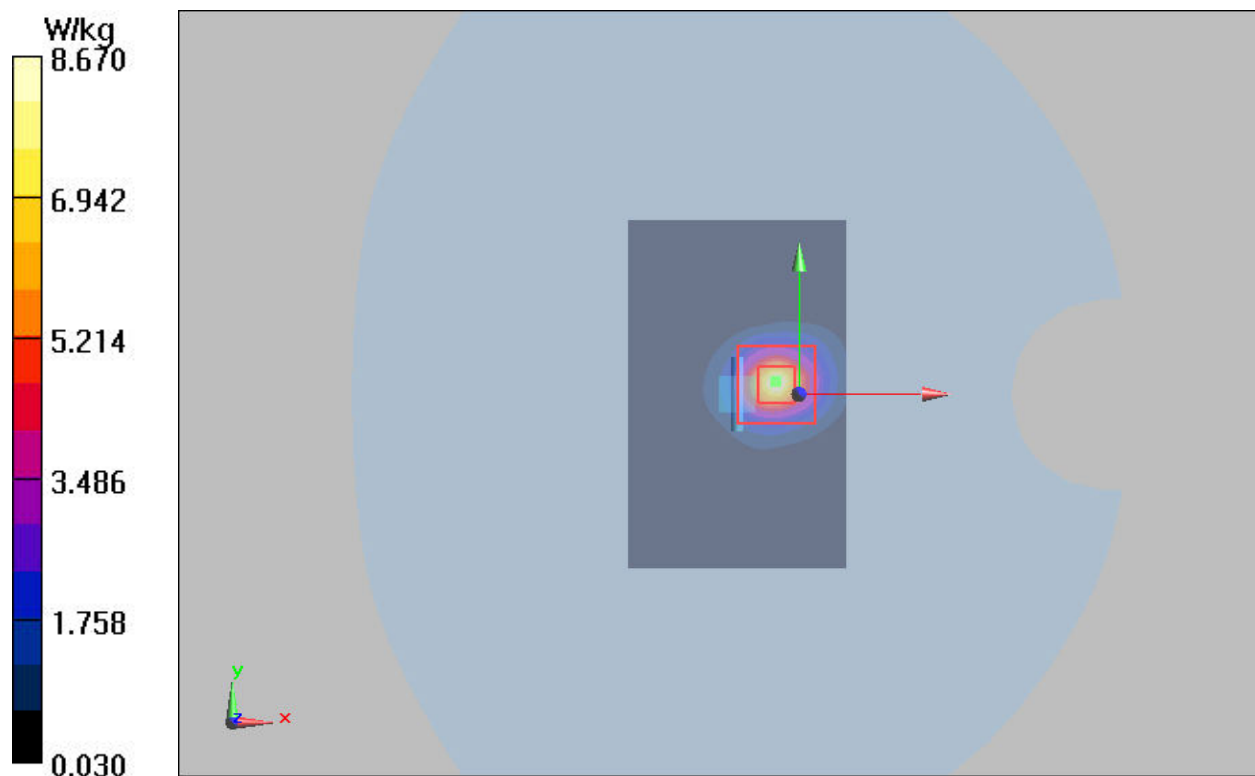
Peak SAR (extrapolated) = 22.9 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 8.67 W/kg



Plot 19 System Performance Check at 5750 MHz TSL

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

Date: 2025/3/31

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.9$; $\rho = 1000$ 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 - SN7689; ConvF(5.31, 5.59, 5.68); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

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

Maximum value of SAR (measured) = 8.31 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 25.26 V/m; Power Drift = 0.044 dB

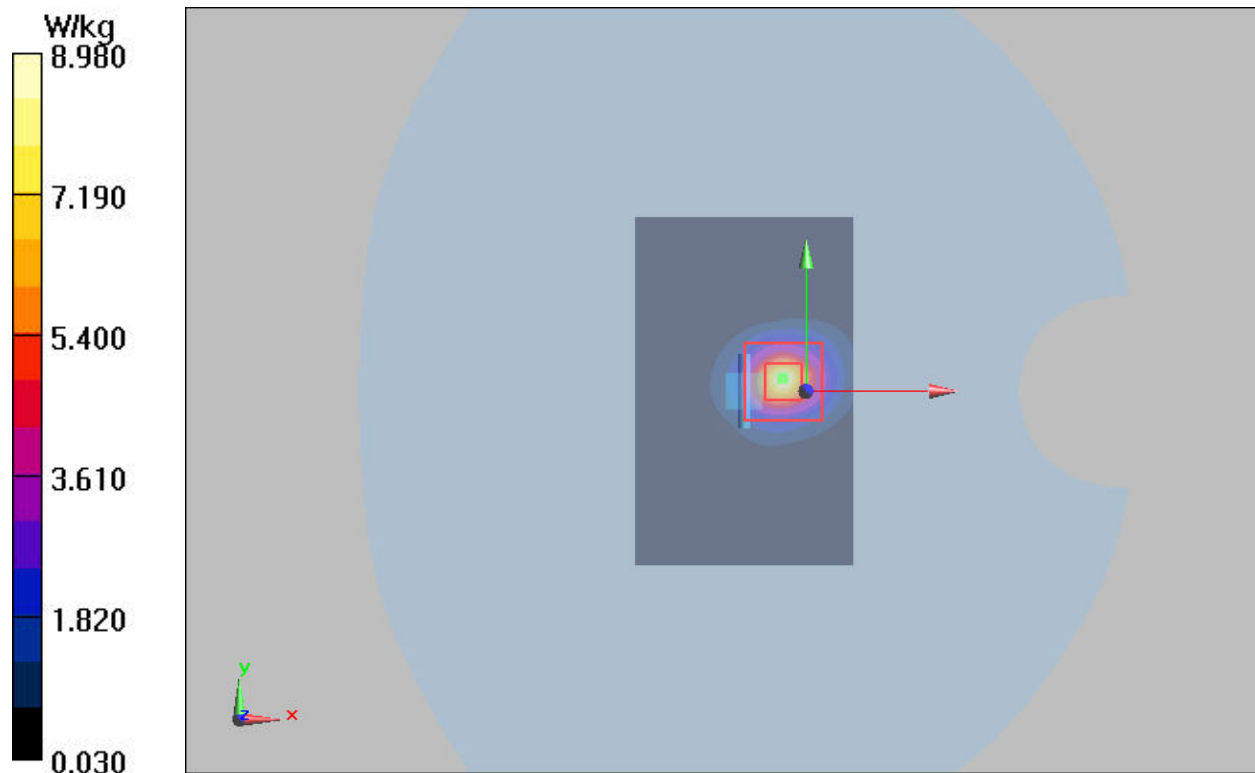
Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.27 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 8.98 W/kg



ANNEX C: Highest Graph Results

Plot 20 GSM 850 Right Cheek Mid

Date: 2025/3/15

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ 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 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

GSM 850 Right/Cheek Mid/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.713 W/kg

GSM 850 Right/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.05 V/m; Power Drift = 0.11 dB

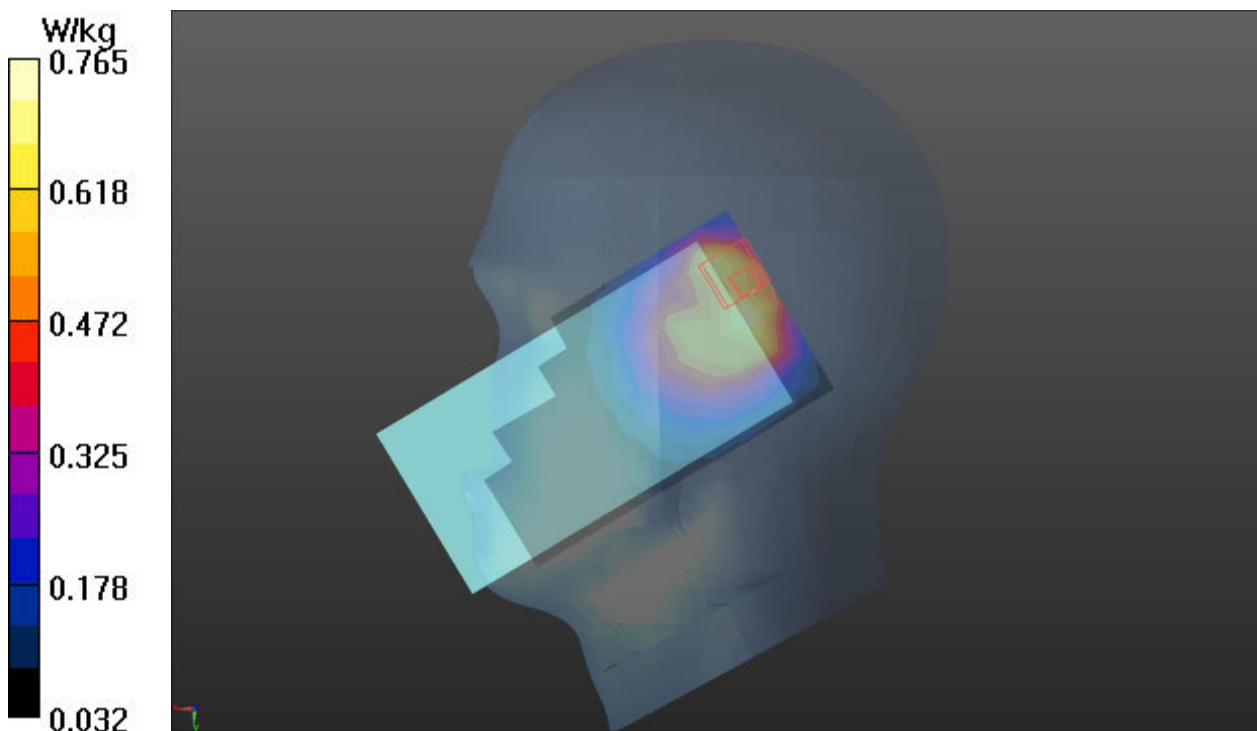
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.382 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.765 W/kg



Plot 21 GSM 1900 Left Cheek Mid

Date: 2025/3/18

Communication System: UID 0, GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

GSM 1900 Left/Cheek Mid/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.450 W/kg

GSM 1900 Left/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.34 V/m; Power Drift = 0.025 dB

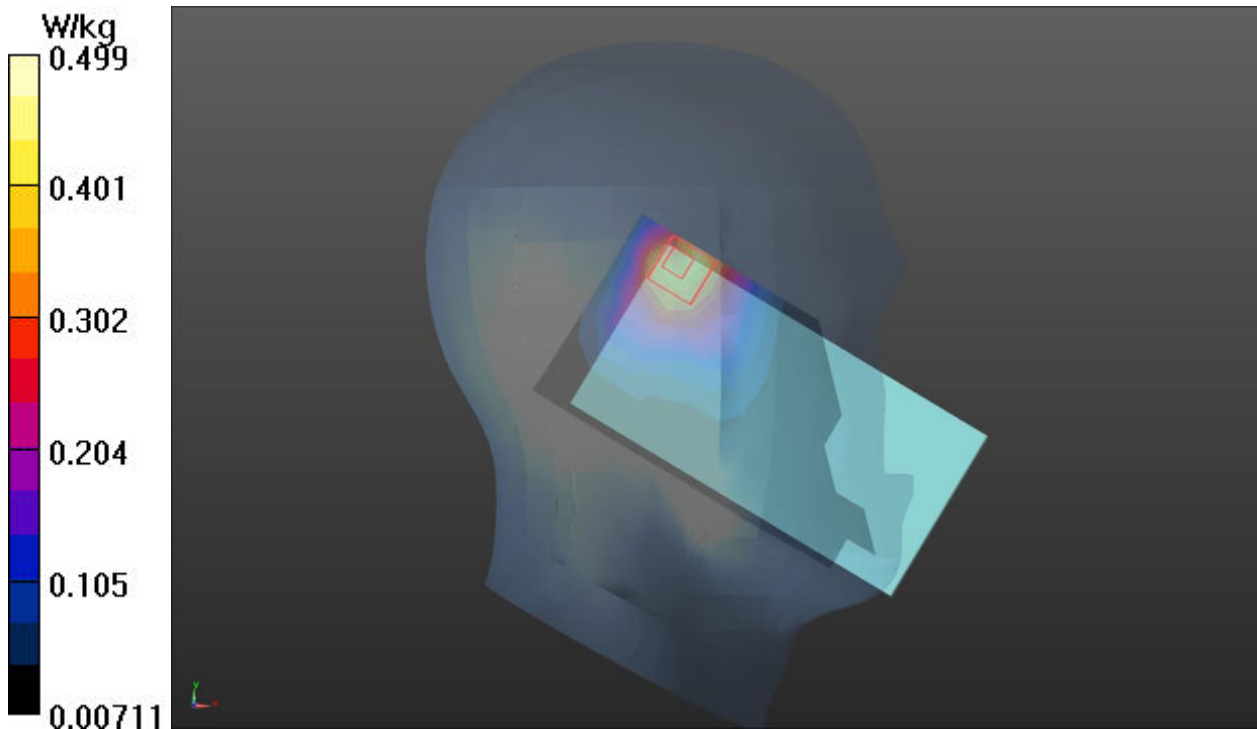
Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.253 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.499 W/kg



Plot 22 WCDMA B2 Left Cheek Mid

Date: 2025/3/20

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B2 Left/Cheek Mid/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.593 W/kg

WCDMA B2 Left/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.65 V/m; Power Drift = -0.10 dB

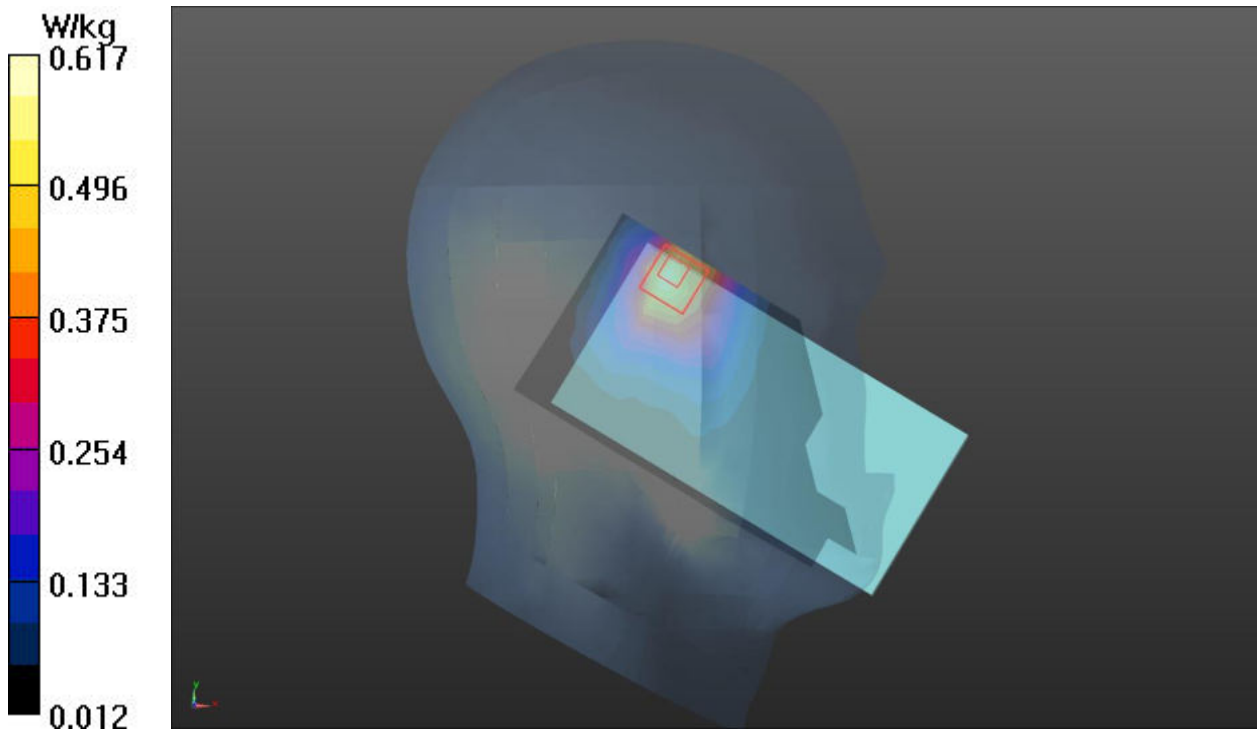
Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.322 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 0.617 W/kg



Plot 23 WCDMA B5 Right Cheek Mid

Date: 2025/3/15

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ 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 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B5 Right/Cheek Mid/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.573 W/kg

WCDMA B5 Right Right/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.69 V/m; Power Drift = -0.01 dB

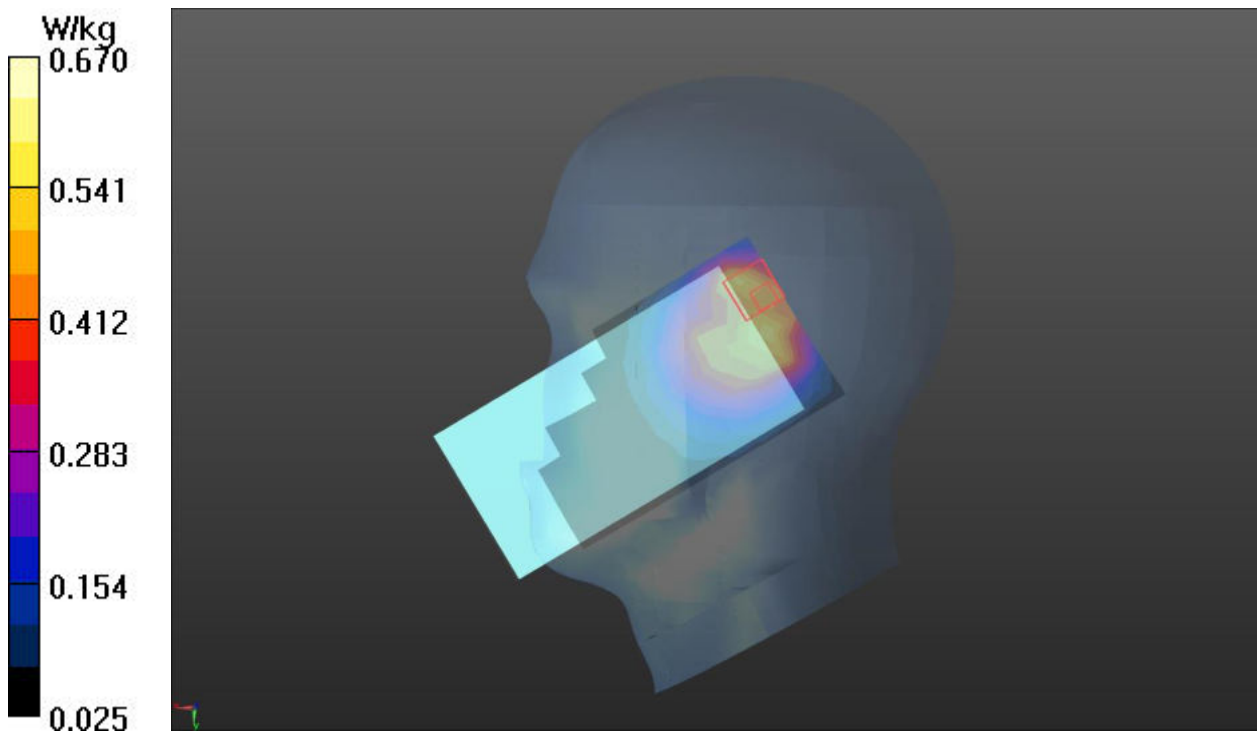
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.320 W/kg

Smallest distance from peaks to all points 3 dB below = 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 0.670 W/kg



Plot 24 LTE B2 1RB Left Cheek Mid

Date: 2025/4/7

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B2 1RB Left/Cheek Mid/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.542 W/kg

LTE B2 1RB Left/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.03 V/m; Power Drift = 0.14 dB

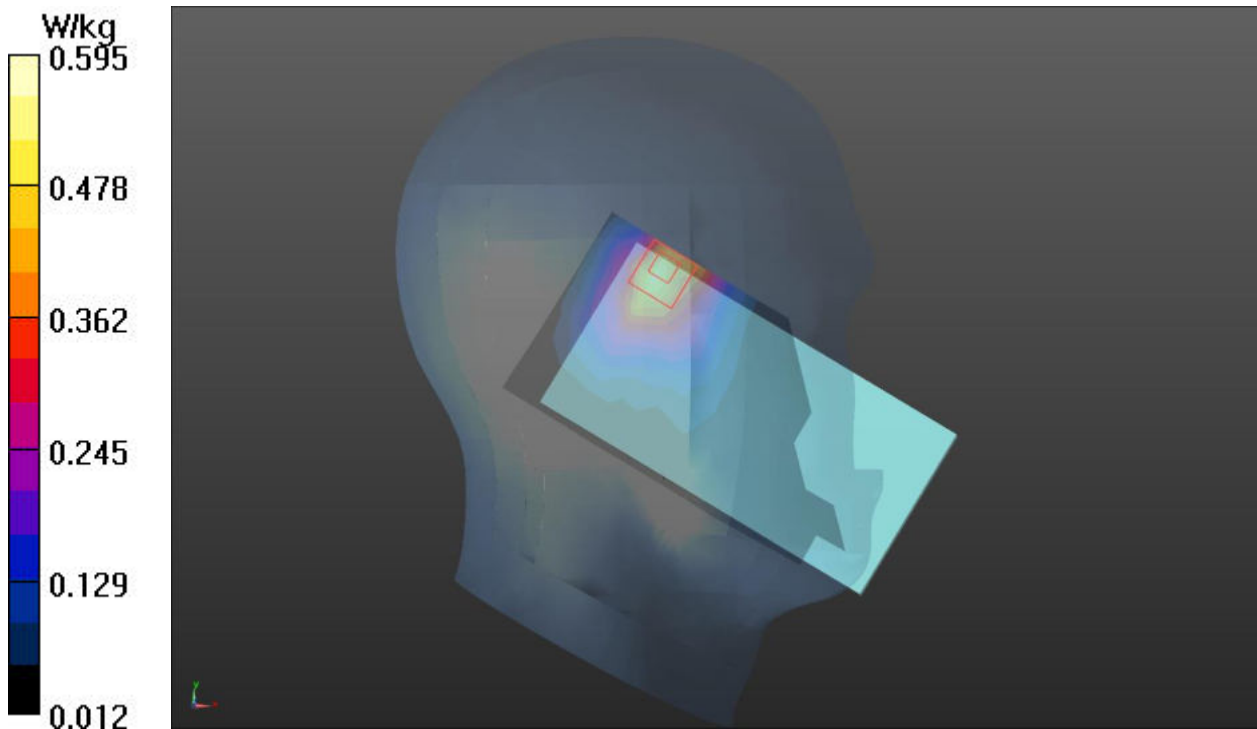
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.303 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 0.595 W/kg



Plot 25 LTE B5 1RB Right Cheek High

Date: 2025/3/15

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

Medium parameters used (interpolated): $f = 844$ MHz; $\sigma = 0.953$ S/m; $\epsilon_r = 42.22$; $\rho = 1000$ 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 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B5 1RB Right/Cheek High/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.861 W/kg

LTE B5 1RB Right/Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.80 V/m; Power Drift = -0.01 dB

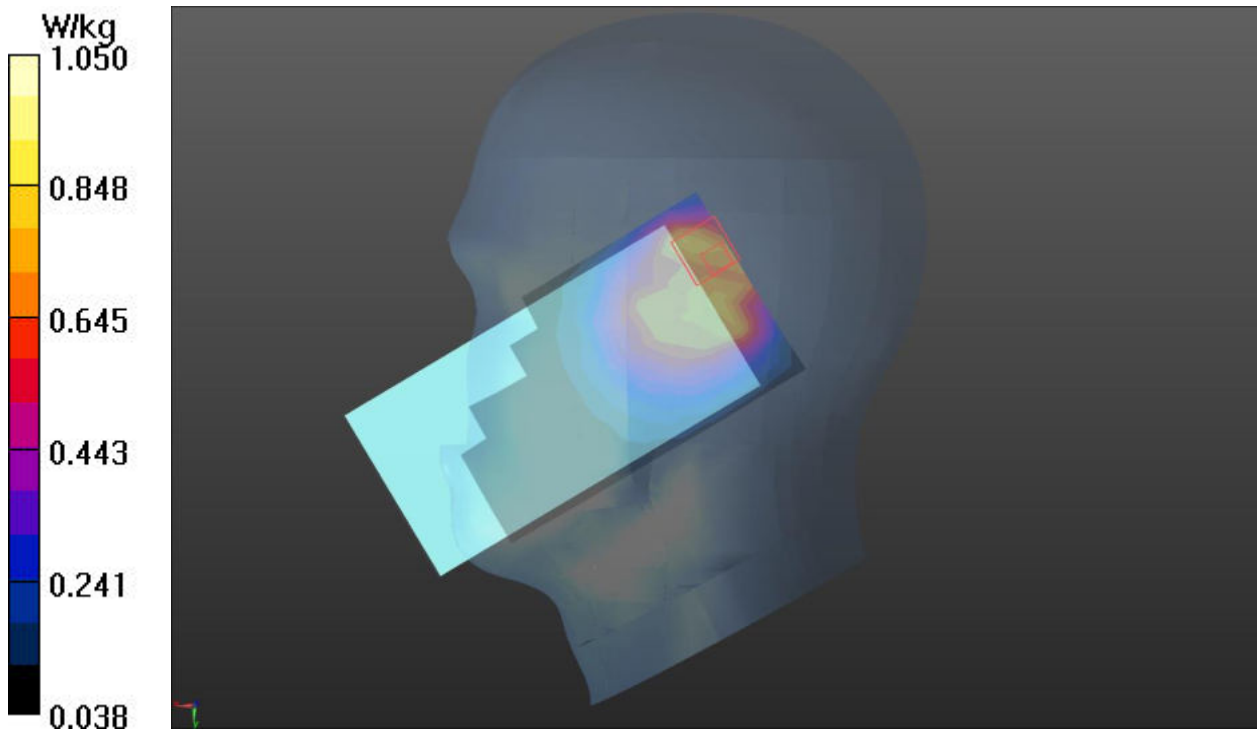
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.500 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 1.05 W/kg



Plot 26 LTE B7 1RB Right Cheek Low

Date: 2025/3/14

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

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 40.565$; $\rho = 1000$ 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 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

D50 LTE B7 1RB Right/Cheek Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.303 W/kg

D50 LTE B7 1RB Right/Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.944 V/m; Power Drift = 0.035 dB

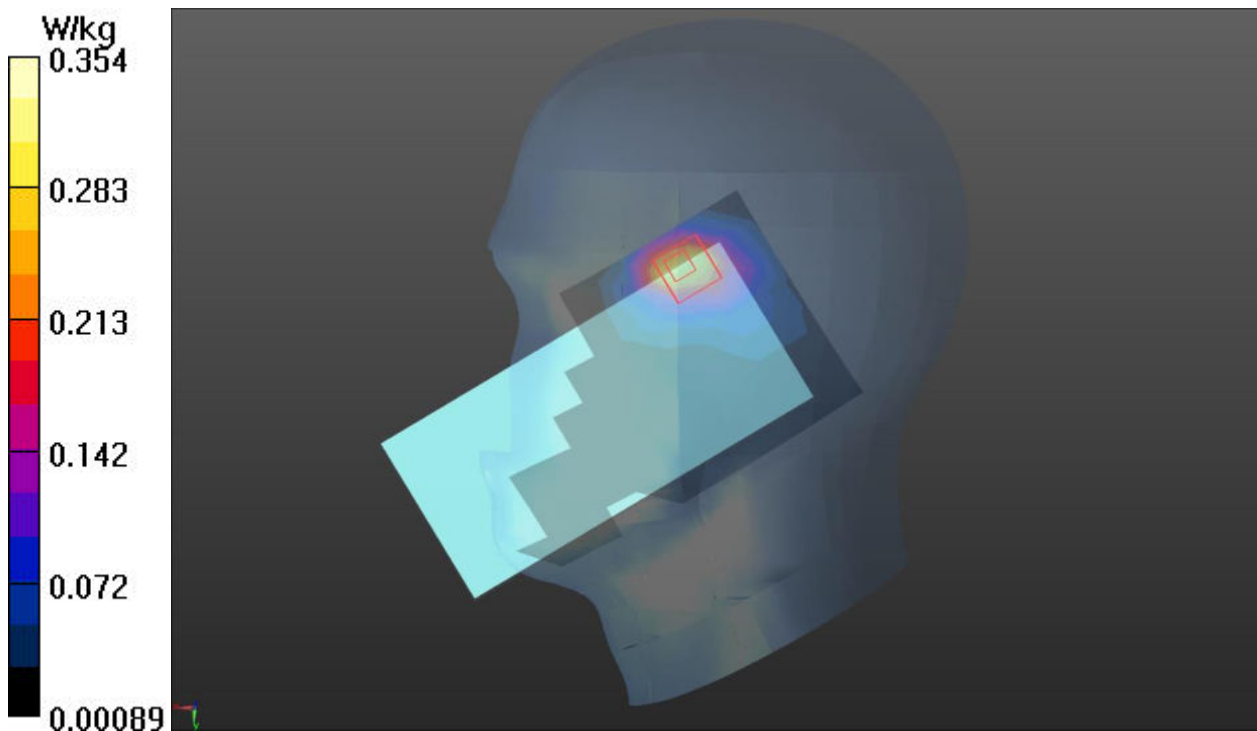
Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.153 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.7%

Maximum value of SAR (measured) = 0.354 W/kg



Plot 27 LTE B12 1RB Right Cheek Mid

Date: 2025/3/19

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

Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 42.422$; $\rho = 1000 \text{ kg/m}^3$

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 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B12 1RB Right/Cheek Mid/Area Scan (7x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.534 W/kg

LTE B12 1RB Right/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.70 V/m ; Power Drift = 0.02 dB

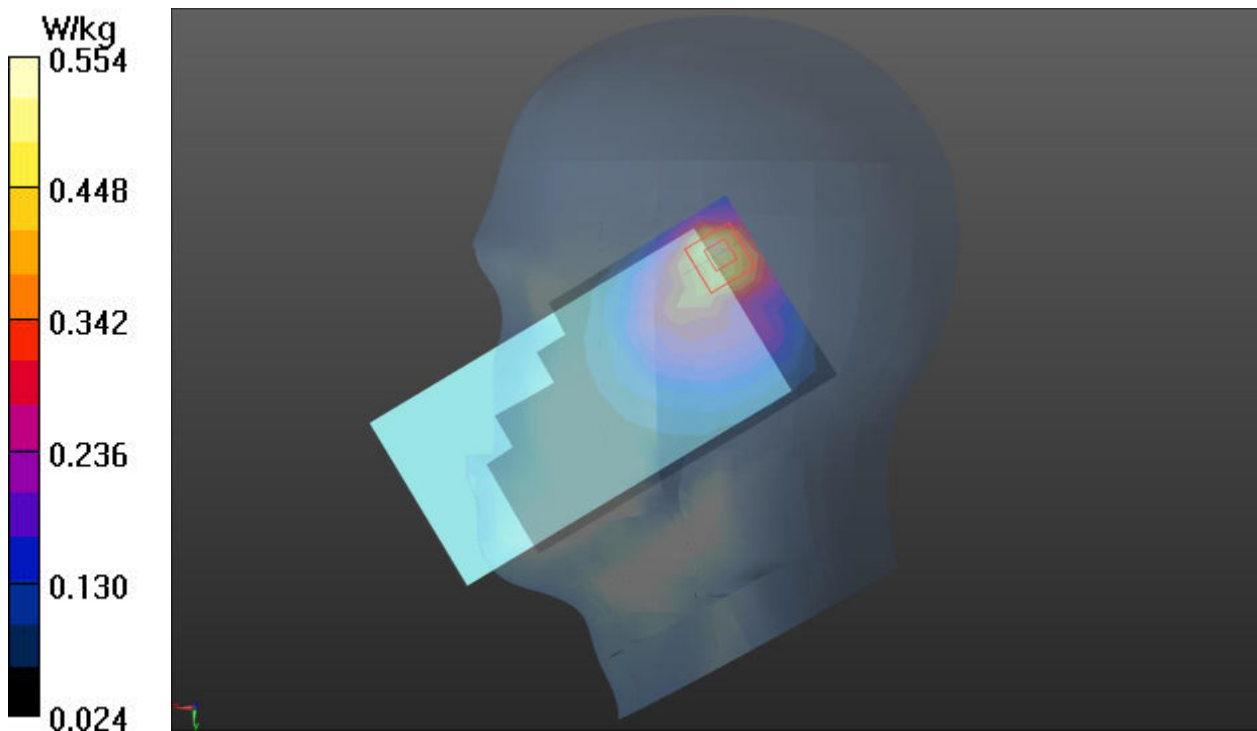
Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.510 W/kg ; SAR(10 g) = 0.299 W/kg

Smallest distance from peaks to all points 3 dB below = 15.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.554 W/kg



Plot 28 LTE B13 1RB Left Cheek Mid

Date: 2025/3/19

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

Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 42.422$; $\rho = 1000 \text{ kg/m}^3$

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 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B13 1RB Left/Cheek Mid/Area Scan (7x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.886 W/kg

LTE B13 1RB Left/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.30 V/m ; Power Drift = 0.07 dB

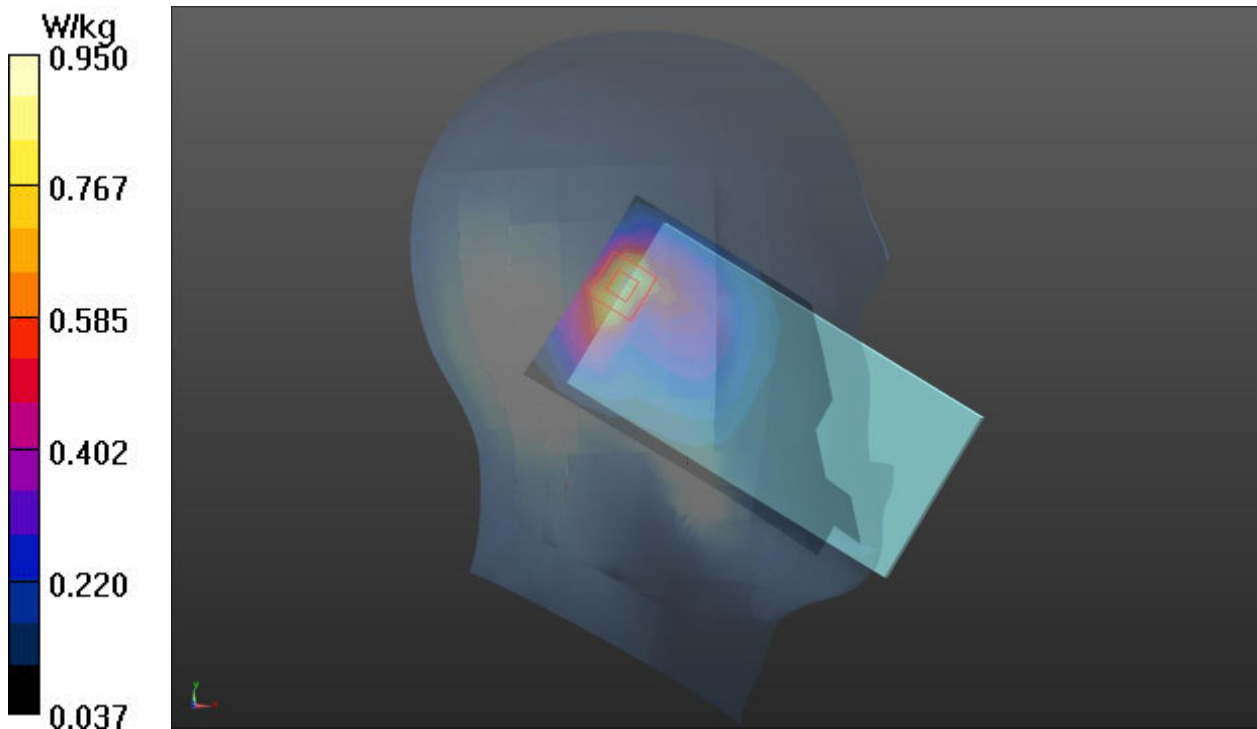
Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.869 W/kg ; SAR(10 g) = 0.477 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 0.950 W/kg



Plot 29 LTE B48 1RB Left Cheek Low

Date: 2025/3/17

Communication System: UID 0, LTE (0); Frequency: 3660 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 3660$ MHz; $\sigma = 2.869$ S/m; $\epsilon_r = 39.464$; $\rho = 1000$ 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 - SN7689; ConvF(6.71, 7.05, 7.17); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B48 1RB Left/Cheek Low/Area Scan (12x21x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.375 W/kg

LTE B48 1RB Left/Cheek Low/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.622 V/m; Power Drift = 0.13 dB

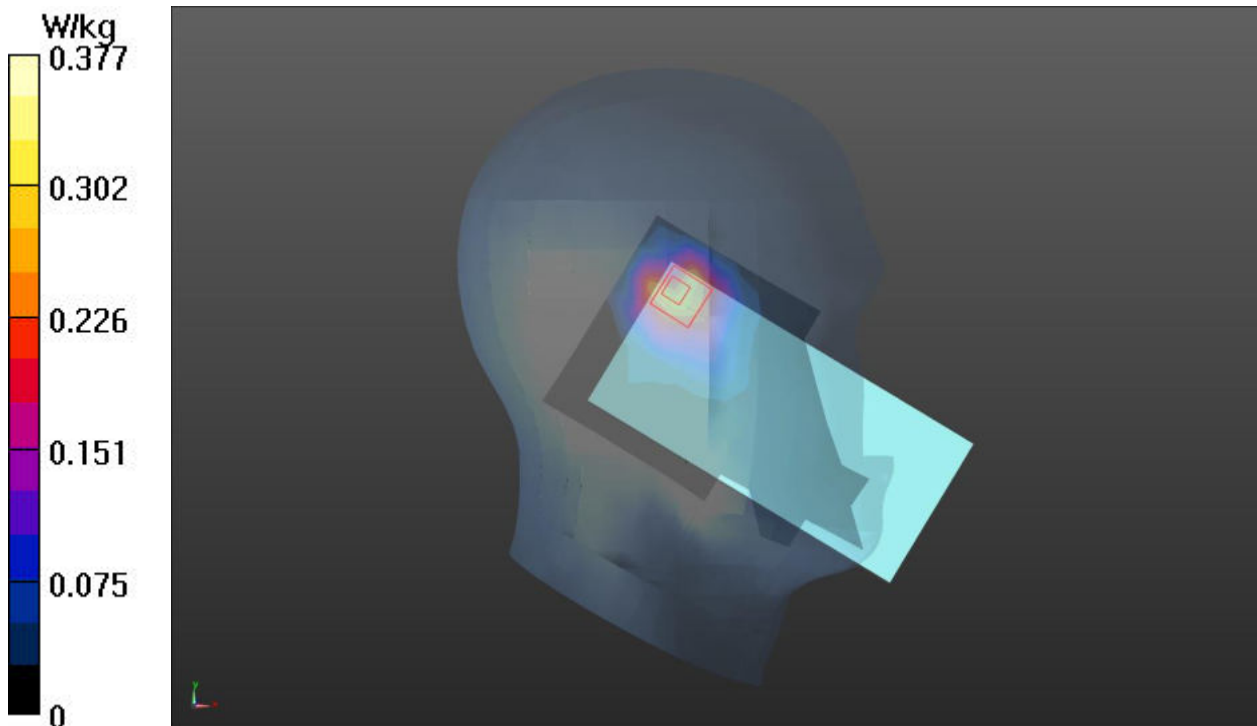
Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 41.4%

Maximum value of SAR (measured) = 0.377 W/kg



Plot 30 LTE B66 1RB Left Cheek Mid

Date: 2025/3/24

Communication System: UID 0, LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.277$ S/m; $\epsilon_r = 38.919$; $\rho = 1000$ 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 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B66 1RB Left/Cheek Mid/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

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

LTE B66 1RB Left/Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.93 V/m; Power Drift = 0.02 dB

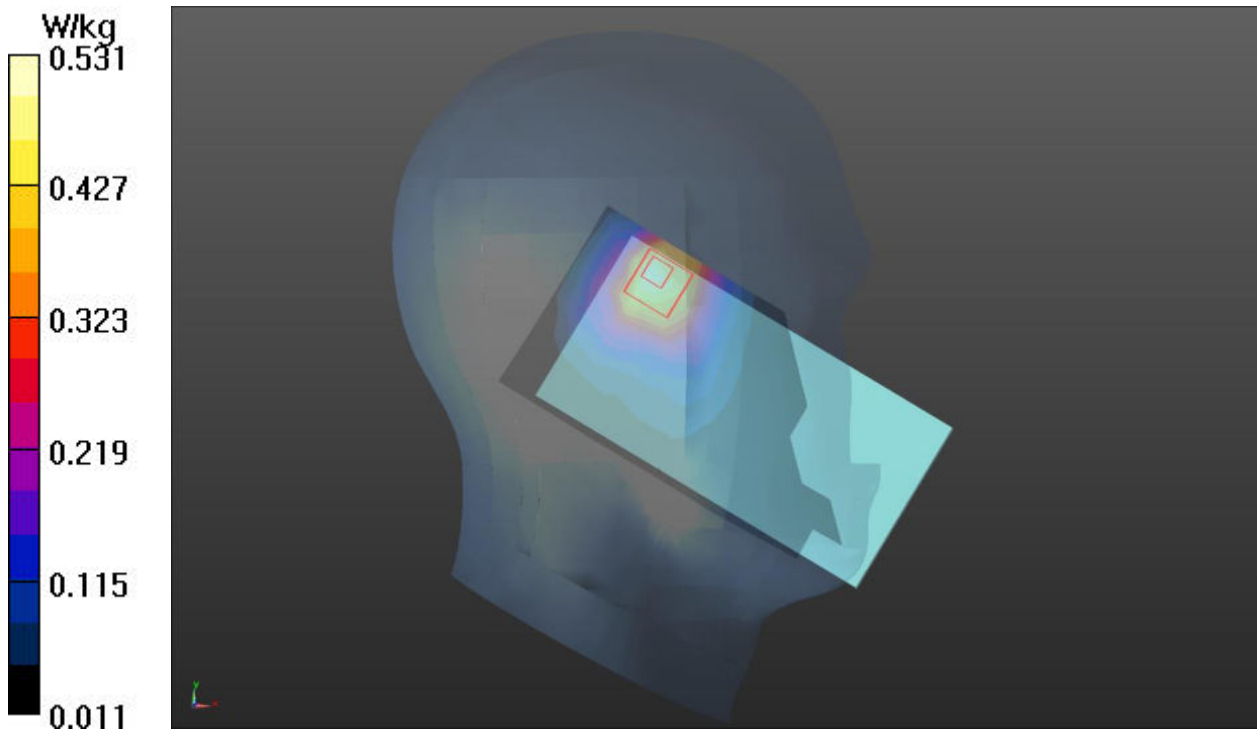
Peak SAR (extrapolated) = 0.914 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.307 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.4%

Maximum value of SAR (measured) = 0.531 W/kg



Plot 31 n2 1RB Left Cheek Low

Date: 2025/4/8

Communication System: UID 0, 5G NR (0); Frequency: 1870 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1870$ MHz; $\sigma = 1.372$ S/m; $\epsilon_r = 38.501$; $\rho = 1000$ 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 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

n2 1RB Left/Cheek Low/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.838 W/kg

n2 1RB Left/Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.11 V/m; Power Drift = 0.014 dB

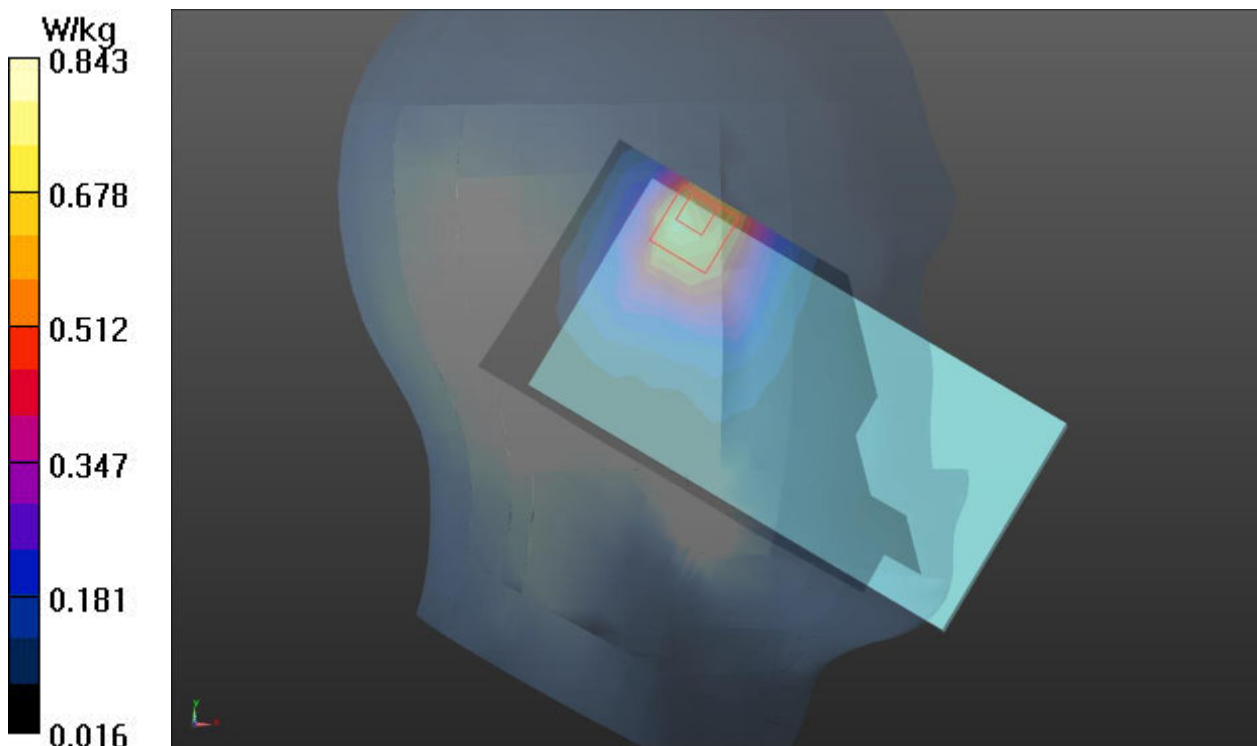
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.820 W/kg; SAR(10 g) = 0.462 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 0.843 W/kg



Plot 32 n5 50%RB Right Tilt Low

Date: 2025/3/15

Communication System: UID 0, 5G NR (0); Frequency: 834 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 834$ MHz; $\sigma = 0.947$ S/m; $\epsilon_r = 42.295$; $\rho = 1000$ 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 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

n5 50%RB Right/Tilt Low/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.766 W/kg

n5 50%RB Right/Tilt Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.62 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.370 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 0.774 W/kg

