TESTING
NVLAP LAB CODE 600118-0

SAR TEST REPORT

No. I22Z61923-SEM01

For

HONOR Device Co., Ltd.

Smart Phone

Model Name: VNA-LX3

with

Hardware Version: HL2VNEM

Software Version: VNA-LX3 6.1.0.29(C605E1R1P1)

FCC ID: 2AYGCVNA-LX3

Issued Date: 2022-10-31

Note:

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:
CTTL, Telecommunication Technology Labs, CAICT
No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.
Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504
Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Issue Date	Description
I22Z61923-SEM01	Rev.0	2022-10-31	Initial creation of test report

TABLE OF CONTENT

1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL(Shouxiang)
Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

1.2 Testing Environment

Temperature:	18°C~25°C,
Relative humidity:	30%~ 70%
Ground system resistance:	< 0.5 Ω
Ambient noise & Reflection:	< 0.012 W/kg

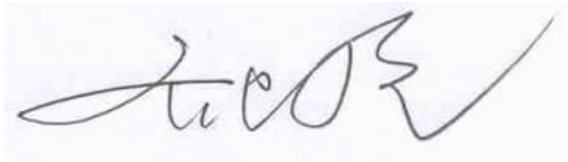
1.3 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Lin Xiaojun
Testing Start Date:	October 13, 2022
Testing End Date:	October 26, 2022

1.4 Signature

Lin xiaojun

(Prepared this test report)



Qi Dianyuan

(Reviewed this test report)

Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for HONOR Device Co., Ltd. Smart Phone VNA-LX3 is as follows:

Table 2.1: Highest Reported SAR (1g)

Mode		Antenna	Highest Reported SAR (1g)			
			1g SAR Head	1g SAR Hotspot	1g SAR Body-worn	10-g SAR Phablet
GSM	GSM 850	ANT0	0.25	0.44	0.25	/
	PCS 1900	ANT1	0.09	0.24	0.19	/
	GSM 850	ANT2	0.61	0.13	0.16	/
	PCS 1900	ANT2	0.21	0.26	0.24	/
WCDMA	UMTS FDD 5	ANT0	0.30	0.35	0.28	/
	UMTS FDD 4	ANT1	0.15	0.28	0.24	/
	UMTS FDD 2	ANT1	0.23	0.25	0.34	/
	UMTS FDD 5	ANT2	0.56	0.25	0.16	/
	UMTS FDD 4	ANT2	0.91	0.22	0.26	/
	UMTS FDD 2	ANT2	0.59	0.24	0.24	/
LTE	LTE Band 2	ANT1	0.32	0.28	0.39	/
	LTE Band 4	ANT1	0.13	0.28	0.23	/
	LTE Band 7	ANT1	0.45	0.20	0.20	/
	LTE Band 13	ANT0	0.13	0.14	0.12	/
	LTE Band 5/26	ANT0	0.31	0.24	0.27	/
	LTE Band 66	ANT1	0.11	0.24	0.31	/
	LTE Band 38	ANT1	0.28	0.13	0.17	/
	LTE Band 2	ANT2	0.71	0.28	0.22	/
	LTE Band 4	ANT2	0.86	0.36	0.21	/
	LTE Band 7	ANT2	0.85	0.20	0.21	/
	LTE Band 13	ANT2	0.34	0.14	0.26	/
	LTE Band 5/26	ANT2	0.35	0.16	0.11	/
	LTE Band 66	ANT2	0.80	0.40	0.24	/
	LTE Band 38	ANT2	0.60	0.17	0.17	/
WLAN 2.4 GHz		7	0.23	0.16	0.16	/
BT		7	0.09	0.05	0.05	/

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 10 mm between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1),** and the values are**: 0.91 W/kg(1g).**

Remark：

This device supports both LTE B5 and LTE B26.Since the supported frequency span for LTE B5 falls completely within the supports frequency span for LTE B26, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B26.

Table 2.2: The sum of SAR values for Main antenna + WiFi

	Position	Main antenna	WiFi	Sum
Highest SAR value	Right head, Tilt	0.91 (WCDMA1700 ANT2)	0.05 (WiFi2.4G ANT7)	**0.96**
	Rear 10mm	0.44 （GSM850 ANT0）	0.16 (WiFi2.4G ANT7)	**0.60**

Table 2.3: The sum of SAR values for Main antenna + BT

	Position	Main antenna	BT	Sum
Highest SAR value	Right head, Tilt	0.91 (WCDMA1700 ANT2)	<0.01 (BT ANT7)	**0.91**
	Rear 15mm	0.39 （LTEB2 ANT1）	0.05 (BT ANT7)	**0.44**

According to the above tables, the highest sum of reported SAR values is **0.96 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

3 Client Information

3.1 Applicant Information

Company Name:	HONOR Device Co., Ltd.
Address/Post:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Contact Person:	/
Contact Email:	/
Telephone:	/
Fax	/

3.2 Manufacturer Information

Company Name:	HONOR Device Co., Ltd.
Address/Post:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Contact Person:	/
Contact Email:	/
Telephone:	/
Fax	/

4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1 About EUT

Description:	Smart Phone
Model name:	VNA-LX3
Tested Band:	GSM850/1900, WCDMA B2/4/5 LTE Band2/4/5/7/13/26/66/38 BT, Wi-Fi(2.4G)
Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824–849 MHz (WCDMA 850 Band V)
	1850 – 1910 MHz (WCDMA1900 Band IV)
	1850–1910 MHz (WCDMA1900 Band II)
	1850.7 – 1909.3 MHz (LTE Band 2)
	1710 – 1755 MHz (LTE Band 4)
	824.7 – 848.3 MHz (LTE Band 5)
	2500 – 2570 MHz(LTE Band 7)
	779.5 – 784.5 MHz (LTE Band 13)
	814.7 – 848.3 MHz (LTE Band 26)
	2570 – 2620 MHz (LTE Band 38)
	1710.7 –1779.3 MHz (LTE Band 66)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	2400 – 2483.5 MHz (Bluetooth)
GPRS/EGPRS Multislot Class:	12
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI/SN	HW Version	SW Version
EUT1	868254060007659	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)
EUT2	868254060008327	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)
EUT3	868254060007048	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)
EUT4	868254060007105	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)
EUT5	868254060008046	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)
EUT6	868254060007691	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)
EUT7	868254060007790	HL2VNEM	VNA-LX3 6.1.0.29(C605E1R1P1)

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the EUT1~5 and conducted power with the EUT6~7.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	HB496590EFW	/	Honor Device Co., Ltd. (Factory: SCUD)
AE2	Battery	HB496590EFW	/	Honor Device Co., Ltd.(Factory: NVT)
AE3	Battery	HB496590EFW-F		Honor Device Co., Ltd. (Factory: SCUD)
AE4	Battery	HB496590EFW-F		Honor Device Co., Ltd.(Factory: NVT)
AE5	Headset	MEND1532B528C00	/	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
AE6	Headset	1293-3283-3.5MM-339		BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.

*AE ID: is used to identify the test sample in the lab internally.

5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

ANSI C95.1–1992:IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

IEEE 1528–2013: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

KDB447498 D01: General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

KDB648474 D04 Handset SAR v01r03: SAR Evaluation Considerations for Wireless Handsets.

KDB941225 D01 SAR test for 3G devices v03r01: SAR Measurement Procedures for 3G Devices

KDB941225 D05 SAR for LTE Devices v02r05: SAR Evaluation Considerations for LTE Devices

KDB941225 D06 Hotspot Mode SAR v02r01: SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

6 Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ) . The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific head capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

The dielectric constant (εr) and conductivity(σ) of typical tissue-equivalent media recipes are expected to be within ±5% of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters the tolerance for εr and σ may be relaxed to ±10%. This is limited to frequencies ≤3 GHZ.

Table 7.1: Targets for tissue simulating liquid

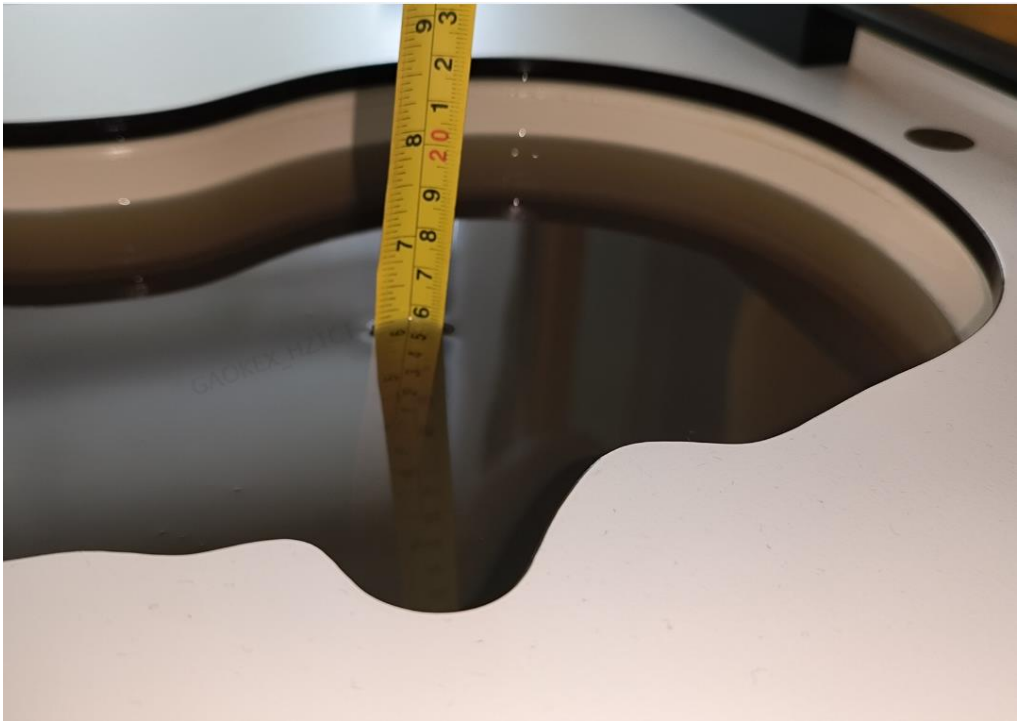
Frequency(MHz)	Liquid Type	Conductivity(σ)	±10% Range	Permittivity(ε)	± 10% Range
750	Head	0.89	0.80～0.98	41.94	37.75～46.13
835	Head	0.90	0.81～0.99	41.5	37.35～45.65
1750	Head	1.40	1.26～1.54	40.0	36～44
1900	Head	1.40	1.26～1.54	40.0	36～44
2450	Head	1.80	1.62～1.98	39.2	35.28～43.12
2600	Head	1.96	1.76～2.16	39.01	35.11～42.91

7.2 Dielectric Performance

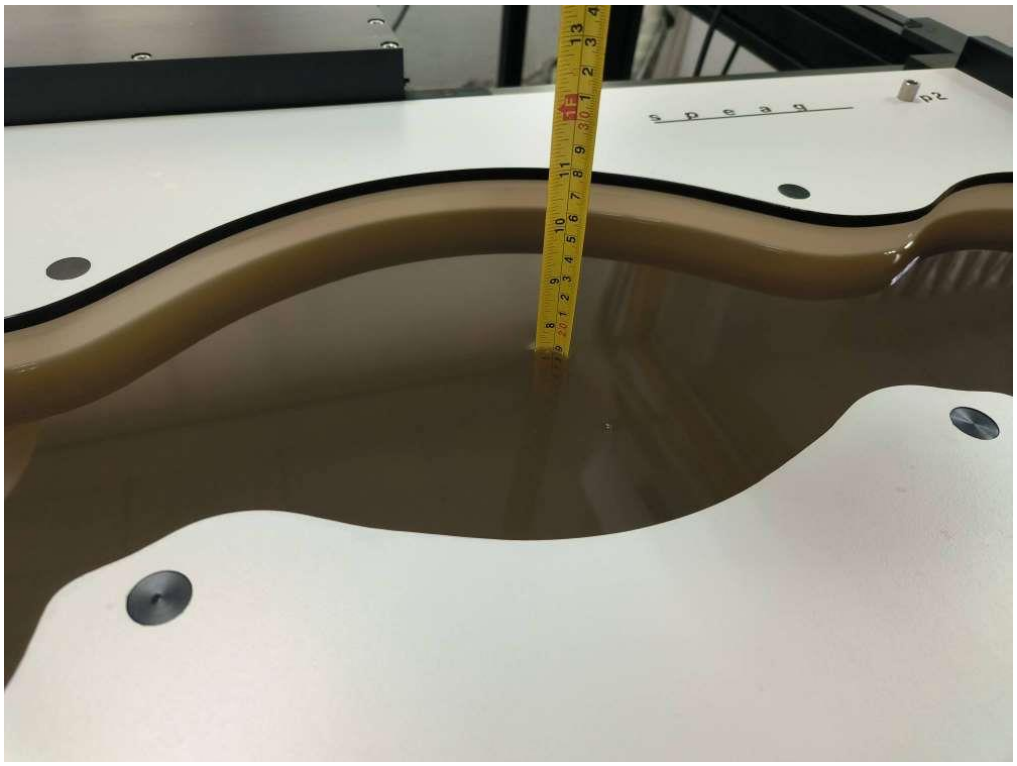
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2022/10/13	750MHz	Head	43.98	4.86%	0.8872	0.31%
2022/10/16	835 MHz	Head	43.48	4.77%	0.9172	1.91%
2022/10/18	1750MHz	Head	42.06	4.94%	1.363	0.51%
2022/10/20	1900 MHz	Head	41.69	4.22%	1.444	3.14%
2022/10/24	2450 MHz	Head	41.06	4.74%	1.841	2.28%
2022/10/26	2600 MHz	Head	40.86	4.74%	1.973	0.66%

Note: The liquid temperature is 22.0℃



Picture 18-1: Liquid depth in the Head Phantom

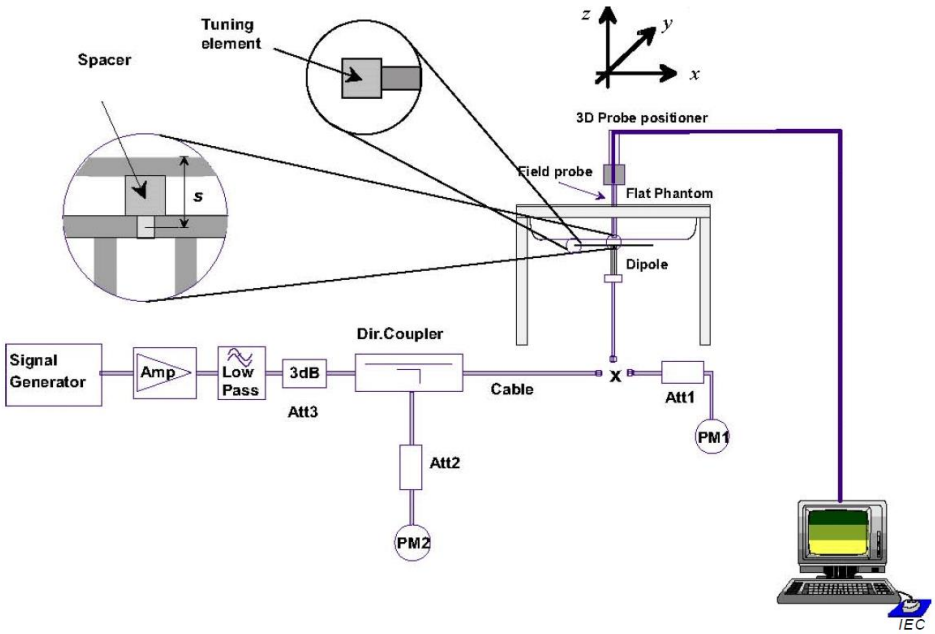


Picture Liquid depth in the Flat Phantom

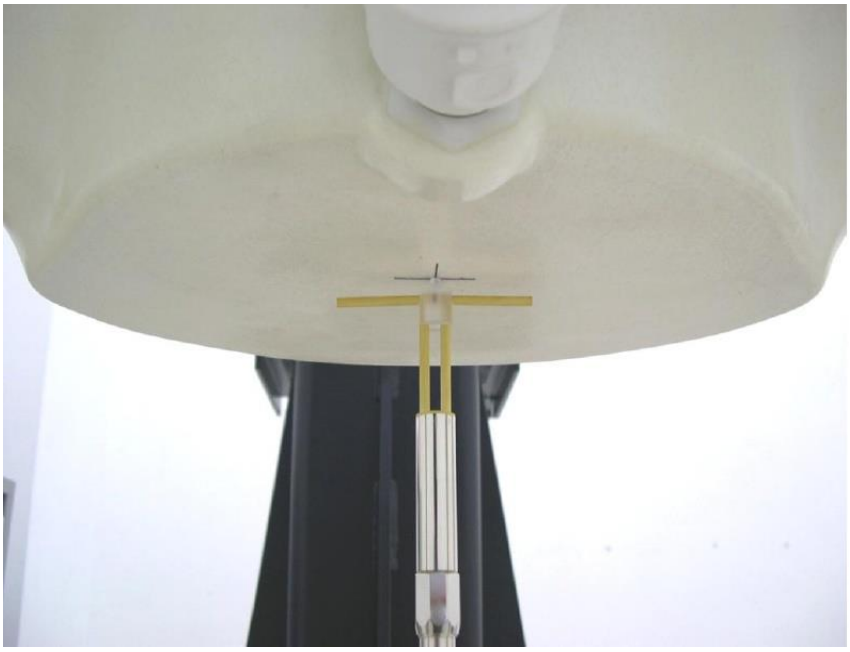
8 System verification

8.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 8-1 System Setup for System Evaluation



Picture 8-2 Photo of Dipole Setup

8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. The details are presented in annex B.

Table 8.1: System Verification of Head

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value(W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2022/10/13	750MHz	5.64	8.63	5.56	8.44	-1.42%	-2.20%
2022/10/16	835 MHz	6.34	9.73	6.08	9.32	-4.10%	-4.21%
2022/10/18	1750MHz	19.3	36.8	19.8	36.7	2.38%	-0.22%
2022/10/20	1900 MHz	20.7	39.7	21.2	40.8	2.61%	2.77%
2022/10/24	2450 MHz	24.9	52.7	24.5	52.0	-1.69%	-1.33%
2022/10/26	2600 MHz	25.2	55.8	25.5	56.8	1.27%	1.79%

9 Measurement Procedures

9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

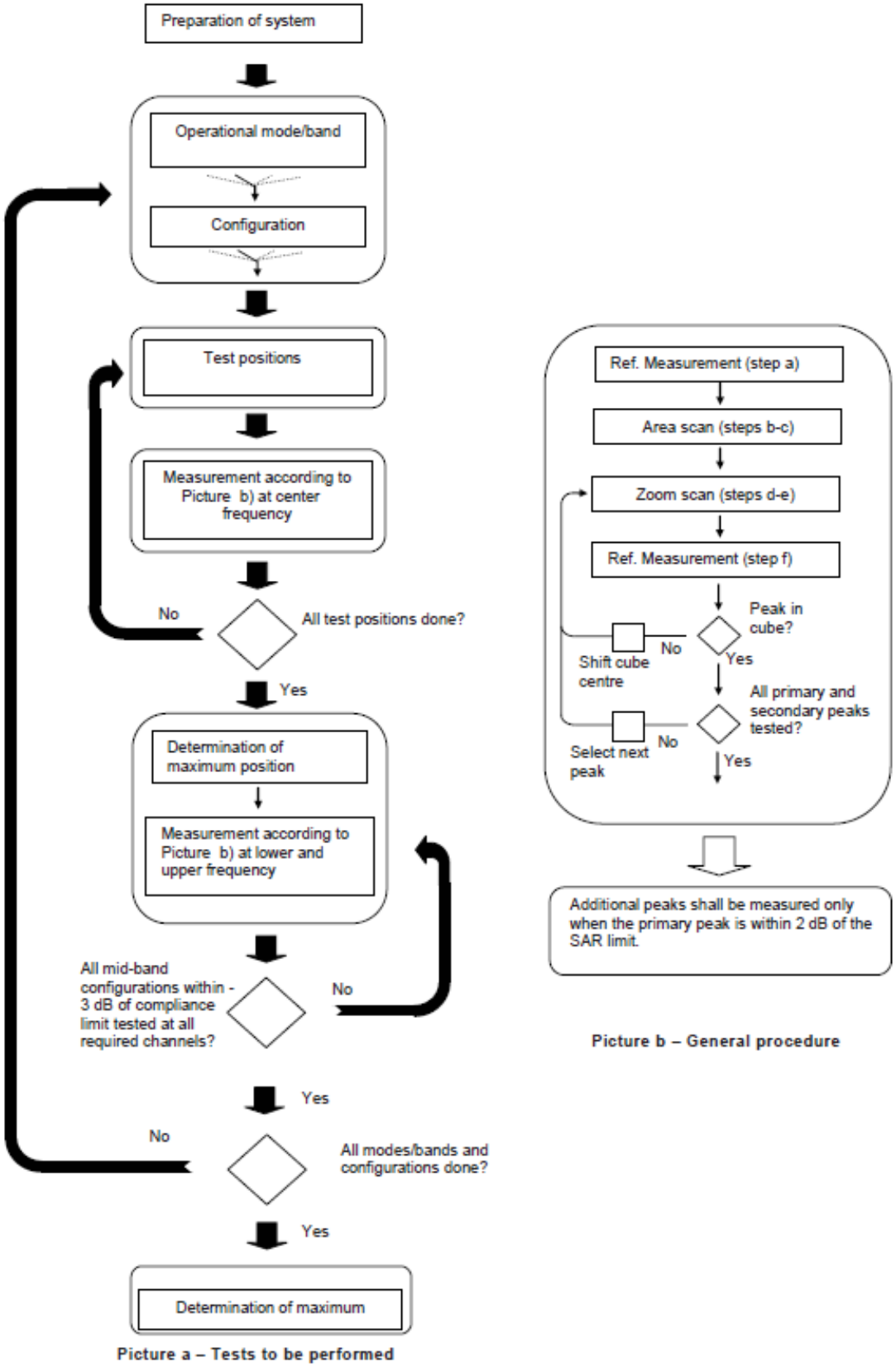
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
b) all configurations for each device position in a), e.g., antenna extended and retracted, and
c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1,perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.



Picture 10-1 Block diagram of the tests to be performed

9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in in IEEE standard 1528 and IEC 62209 standards. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & $DPDCH_n$), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d （SF）	β_c/β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d （SF）	β_c/β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} （SF）	β_{ed} （codes）	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.5	1.5	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	1.5	1.5	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	1.5	1.5	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	1.5	1.5	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.5	1.5	21	81

Rel.8 DC-HSDPA (Cat 24)

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.
It is performed for conducted power and SAR based on the KDB941225 D05.
SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

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 among 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.

TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

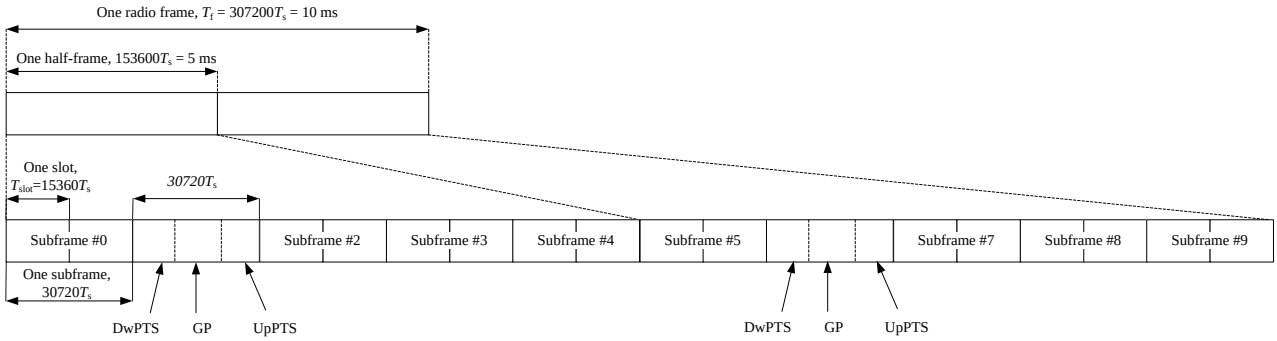


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 9.1: 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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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 9.2: 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

Duty factor is calculated by:

Duty factor = uplink frame*6+UpPTS*2/one frame length

= (30720.T_s * 6+5120. T_s*2)/307200.T_s

= 0.633

9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

9.6 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10 Area Scan Based 1-g SAR

10.1 Requirement of KDB

According to the KDB447498 D01, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is ≤ 1.2 W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz)and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

11 Conducted Output Power

The details of test scenarios categorization in the table below

Head	Body worn	Body
receiver on	receiver off	Hostpot

Main antenna	ANT0	LB Main
	ANT1	MHB Main
Second antenna	ANT2	LB_DIV /+MHB_DIV

11.1 GSM Measurement result

Maximum Target Power for Production Unit

Antenna		Main antenna					
GSM Band		GSM850					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		0.0	32.7	-1.5	1	31.2	33.7
GPRS (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (8PSK)	1 Tx Slot	0.0	25.9	-1.5	1	24.4	26.9
	2 Tx Slots	0.0	22.8	-1.5	1	21.3	23.8
	3 Tx Slots	0.0	20.8	-1.5	1	19.3	21.8
	4 Tx Slots	0.0	19.1	-1.5	1	17.6	20.1

Antenna		Second antenna					
GSM Band		GSM850					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		0.0	32.7	-1.5	1	31.2	33.7
GPRS (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (8PSK)	1 Tx Slot	0.0	25.9	-1.5	1	24.4	26.9
	2 Tx Slots	0.0	22.8	-1.5	1	21.3	23.8
	3 Tx Slots	0.0	20.8	-1.5	1	19.3	21.8
	4 Tx Slots	0.0	19.1	-1.5	1	17.6	20.1

Antenna		Main antenna					
GSM Band		GSM850					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		0.0	32.7	-1.5	1	31.2	33.7
GPRS (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (8PSK)	1 Tx Slot	0.0	25.9	-1.5	1	24.4	26.9
	2 Tx Slots	0.0	22.8	-1.5	1	21.3	23.8
	3 Tx Slots	0.0	20.8	-1.5	1	19.3	21.8
	4 Tx Slots	0.0	19.1	-1.5	1	17.6	20.1

Antenna		Second antenna					
GSM Band		GSM850					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		0.0	32.7	-1.5	1	31.2	33.7
GPRS (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (GMSK)	1 Tx Slot	0.0	32.7	-1.5	1	31.2	33.7
	2 Tx Slots	0.0	30.1	-1.5	1	28.6	31.1
	3 Tx Slots	0.0	28.3	-1.5	1	26.8	29.3
	4 Tx Slots	0.0	27.0	-1.5	1	25.5	28.0
EDGE (8PSK)	1 Tx Slot	0.0	25.9	-1.5	1	24.4	26.9
	2 Tx Slots	0.0	22.8	-1.5	1	21.3	23.8
	3 Tx Slots	0.0	20.8	-1.5	1	19.3	21.8
	4 Tx Slots	0.0	19.1	-1.5	1	17.6	20.1

Antenna		Main antenna					
GSM Band		GSM850					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		1.0	31.7	-1.5	1	30.2	32.7
GPRS (GMSK)	1 Tx Slot	1.0	31.7	-1.5	1	30.2	32.7
	2 Tx Slots	1.0	29.1	-1.5	1	27.6	30.1
	3 Tx Slots	1.0	27.3	-1.5	1	25.8	28.3
	4 Tx Slots	1.0	26.0	-1.5	1	24.5	27.0
EDGE (GMSK)	1 Tx Slot	1.0	31.7	-1.5	1	30.2	32.7
	2 Tx Slots	1.0	29.1	-1.5	1	27.6	30.1
	3 Tx Slots	1.0	27.3	-1.5	1	25.8	28.3
	4 Tx Slots	1.0	26.0	-1.5	1	24.5	27.0
EDGE (8PSK)	1 Tx Slot	1.0	24.9	-1.5	1	23.4	25.9
	2 Tx Slots	1.0	21.8	-1.5	1	20.3	22.8
	3 Tx Slots	1.0	19.8	-1.5	1	18.3	20.8
	4 Tx Slots	1.0	18.1	-1.5	1	16.6	19.1

Antenna		Second antenna					
GSM Band		GSM850					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		3.0	29.7	-1.5	1	28.2	30.7
GPRS (GMSK)	1 Tx Slot	3.0	29.7	-1.5	1	28.2	30.7
	2 Tx Slots	3.0	27.1	-1.5	1	25.6	28.1
	3 Tx Slots	3.0	25.3	-1.5	1	23.8	26.3
	4 Tx Slots	3.0	24.0	-1.5	1	22.5	25.0
EDGE (GMSK)	1 Tx Slot	3.0	29.7	-1.5	1	28.2	30.7
	2 Tx Slots	3.0	27.1	-1.5	1	25.6	28.1
	3 Tx Slots	3.0	25.3	-1.5	1	23.8	26.3
	4 Tx Slots	3.0	24.0	-1.5	1	22.5	25.0
EDGE (8PSK)	1 Tx Slot	3.0	22.9	-1.5	1	21.4	23.9
	2 Tx Slots	3.0	19.8	-1.5	1	18.3	20.8
	3 Tx Slots	3.0	17.8	-1.5	1	16.3	18.8
	4 Tx Slots	3.0	16.1	-1.5	1	14.6	17.1

Antenna		Main antenna					
GSM Band		GSM1900					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		0.0	29.7	-1.5	1	28.2	30.7
GPRS (GMSK)	1 Tx Slot	0.0	29.7	-1.5	1	28.2	30.7
	2 Tx Slots	0.0	27.3	-1.5	1	25.8	28.3
	3 Tx Slots	0.0	25.5	-1.5	1	24.0	26.5
	4 Tx Slots	0.0	24.2	-1.5	1	22.7	25.2
EDGE (GMSK)	1 Tx Slot	0.0	29.7	-1.5	1	28.2	30.7
	2 Tx Slots	0.0	27.2	-1.5	1	25.7	28.2
	3 Tx Slots	0.0	25.5	-1.5	1	24.0	26.5
	4 Tx Slots	0.0	24.2	-1.5	1	22.7	25.2
EDGE (8PSK)	1 Tx Slot	0.0	25.1	-1.5	1	23.6	26.1
	2 Tx Slots	0.0	22.3	-1.5	1	20.8	23.3
	3 Tx Slots	0.0	20.3	-1.5	1	18.8	21.3
	4 Tx Slots	0.0	18.9	-1.5	1	17.4	19.9

Antenna		Second antenna					
GSM Band		GSM1900					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		5.0	24.7	-1.5	1.0	23.2	25.7
GPRS (GMSK)	1 Tx Slot	5.0	24.7	-1.5	1.0	23.2	25.7
	2 Tx Slots	5.0	22.3	-1.5	1.0	20.8	23.3
	3 Tx Slots	5.0	20.5	-1.5	1.0	19.0	21.5
	4 Tx Slots	5.0	19.2	-1.5	1.0	17.7	20.2
EDGE (GMSK)	1 Tx Slot	5.0	24.7	-1.5	1.0	23.2	25.7
	2 Tx Slots	5.0	22.2	-1.5	1.0	20.7	23.2
	3 Tx Slots	5.0	20.5	-1.5	1.0	19.0	21.5
	4 Tx Slots	5.0	19.2	-1.5	1.0	17.7	20.2
EDGE (8PSK)	1 Tx Slot	5.0	20.1	-1.5	1.0	18.6	21.1
	2 Tx Slots	5.0	17.3	-1.5	1.0	15.8	18.3
	3 Tx Slots	5.0	15.3	-1.5	1.0	13.8	16.3
	4 Tx Slots	5.0	13.9	-1.5	1.0	12.4	14.9

Antenna		Main antenna					
GSM Band		GSM1900					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		0.0	29.7	-1.5	1	28.2	30.7
GPRS (GMSK)	1 Tx Slot	0.0	29.7	-1.5	1	28.2	30.7
	2 Tx Slots	0.0	27.3	-1.5	1	25.8	28.3
	3 Tx Slots	0.0	25.5	-1.5	1	24.0	26.5
	4 Tx Slots	0.0	24.2	-1.5	1	22.7	25.2
EDGE (GMSK)	1 Tx Slot	0.0	29.7	-1.5	1	28.2	30.7
	2 Tx Slots	0.0	27.2	-1.5	1	25.7	28.2
	3 Tx Slots	0.0	25.5	-1.5	1	24.0	26.5
	4 Tx Slots	0.0	24.2	-1.5	1	22.7	25.2
EDGE (8PSK)	1 Tx Slot	0.0	25.1	-1.5	1	23.6	26.1
	2 Tx Slots	0.0	22.3	-1.5	1	20.8	23.3
	3 Tx Slots	0.0	20.3	-1.5	1	18.8	21.3
	4 Tx Slots	0.0	18.9	-1.5	1	17.4	19.9

Antenna		Second antenna					
GSM Band		GSM1900					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		2.0	27.7	-1.5	1.0	26.2	28.7
GPRS (GMSK)	1 Tx Slot	2.0	27.7	-1.5	1.0	26.2	28.7
	2 Tx Slots	2.0	25.3	-1.5	1.0	23.8	26.3
	3 Tx Slots	2.0	23.5	-1.5	1.0	22.0	24.5
	4 Tx Slots	2.0	22.2	-1.5	1.0	20.7	23.2
EDGE (GMSK)	1 Tx Slot	2.0	27.7	-1.5	1.0	26.2	28.7
	2 Tx Slots	2.0	25.2	-1.5	1.0	23.7	26.2
	3 Tx Slots	2.0	23.5	-1.5	1.0	22.0	24.5
	4 Tx Slots	2.0	22.2	-1.5	1.0	20.7	23.2
EDGE (8PSK)	1 Tx Slot	2.0	23.1	-1.5	1.0	21.6	24.1
	2 Tx Slots	2.0	20.3	-1.5	1.0	18.8	21.3
	3 Tx Slots	2.0	18.3	-1.5	1.0	16.8	19.3
	4 Tx Slots	2.0	16.9	-1.5	1.0	15.4	17.9

Antenna		Main antenna					
GSM Band		GSM1900					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		3.0	26.7	-1.5	1	25.2	27.7
GPRS (GMSK)	1 Tx Slot	3.0	26.7	-1.5	1	25.2	27.7
	2 Tx Slots	3.0	24.3	-1.5	1	22.8	25.3
	3 Tx Slots	3.0	22.5	-1.5	1	21.0	23.5
	4 Tx Slots	3.0	21.2	-1.5	1	19.7	22.2
EDGE (GMSK)	1 Tx Slot	3.0	26.7	-1.5	1	25.2	27.7
	2 Tx Slots	3.0	24.2	-1.5	1	22.7	25.2
	3 Tx Slots	3.0	22.5	-1.5	1	21.0	23.5
	4 Tx Slots	3.0	21.2	-1.5	1	19.7	22.2
EDGE (8PSK)	1 Tx Slot	3.0	22.1	-1.5	1	20.6	23.1
	2 Tx Slots	3.0	19.3	-1.5	1	17.8	20.3
	3 Tx Slots	3.0	17.3	-1.5	1	15.8	18.3
	4 Tx Slots	3.0	15.9	-1.5	1	14.4	16.9

Antenna		Second antenna					
GSM Band		GSM1900					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
GSM (CS)		5.5	24.2	-1.5	1.0	22.7	25.2
GPRS (GMSK)	1 Tx Slot	5.5	24.2	-1.5	1.0	22.7	25.2
	2 Tx Slots	5.5	21.8	-1.5	1.0	20.3	22.8
	3 Tx Slots	5.5	20.0	-1.5	1.0	18.5	21.0
	4 Tx Slots	5.5	18.7	-1.5	1.0	17.2	19.7
EDGE (GMSK)	1 Tx Slot	5.5	24.2	-1.5	1.0	22.7	25.2
	2 Tx Slots	5.5	21.7	-1.5	1.0	20.2	22.7
	3 Tx Slots	5.5	20.0	-1.5	1.0	18.5	21.0
	4 Tx Slots	5.5	18.7	-1.5	1.0	17.2	19.7
EDGE (8PSK)	1 Tx Slot	5.5	19.6	-1.5	1.0	18.1	20.6
	2 Tx Slots	5.5	16.8	-1.5	1.0	15.3	17.8
	3 Tx Slots	5.5	14.8	-1.5	1.0	13.3	15.8
	4 Tx Slots	5.5	13.4	-1.5	1.0	11.9	14.4

11.1.1 Main antenna

GSM850(receiver on/off)

GSM850	Conducted Power (dBm)		
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)
	32.61	32.64	32.70

GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	32.63	32.64	32.68	-9.03	23.60	23.61	23.65
2 Txslots	30.00	30.01	30.05	-6.02	23.98	23.99	24.03
3Txslots	28.28	28.29	28.33	-4.26	24.02	24.03	24.07
4 Txslots	26.95	26.96	27.00	-3.01	23.94	23.95	23.99
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	32.57	32.60	32.66	-9.03	23.54	23.57	23.63
2 Txslots	29.95	29.97	30.03	-6.02	23.93	23.95	24.01
3Txslots	28.23	28.25	28.31	-4.26	23.97	23.99	24.05
4 Txslots	26.90	26.92	26.98	-3.01	23.89	23.91	23.97
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	251	190	128	(dB)	251	190	128
1 Txslot	28.15	25.88	25.98	-9.03	19.12	16.85	16.95
2 Txslots	22.78	22.98	23.08	-6.02	16.76	16.96	17.06
3Txslots	20.88	21.07	21.20	-4.26	16.62	16.81	16.94
4 Txslots	19.29	19.47	19.60	-3.01	16.28	16.46	16.59

GSM850(Hostpot)

GSM850	Conducted Power (dBm)						
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)				
	31.81	31.84	31.89				
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	31.78	31.81	31.86	-9.03	22.75	22.78	22.83
2 Txslots	28.92	28.94	29.00	-6.02	22.90	22.92	22.98
3Txslots	27.23	27.25	27.31	-4.26	22.97	22.99	23.05
4 Txslots	25.99	26.01	26.07	-3.01	22.98	23.00	23.06
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	31.76	31.80	31.86	-9.03	22.73	22.77	22.83
2 Txslots	28.91	28.94	29.00	-6.02	22.89	22.92	22.98
3Txslots	27.22	27.25	27.31	-4.26	22.96	22.99	23.05
4 Txslots	25.98	26.01	26.06	-3.01	22.97	23.00	23.05
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	251	190	128	(dB)	251	190	128
1 Txslot	24.73	24.92	25.02	-9.03	15.70	15.89	15.99
2 Txslots	21.77	21.91	22.12	-6.02	15.75	15.89	16.10
3Txslots	19.76	19.93	20.05	-4.26	15.50	15.67	15.79
4 Txslots	18.10	18.53	18.62	-3.01	15.09	15.52	15.61

GSM1900(receiver on/off)

PCS1900	Conducted Power (dBm)						
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)				
	29.65	29.77	29.92				
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	29.68	29.76	29.91	-9.03	20.65	20.73	20.88
2 Txslots	27.28	27.38	27.50	-6.02	21.26	21.36	21.48
3Txslots	25.54	25.62	25.75	-4.26	21.28	21.36	21.49
4 Txslots	24.25	24.31	24.45	-3.01	21.24	21.30	21.44
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	29.61	29.73	29.88	-9.03	20.58	20.70	20.85
2 Txslots	27.24	27.35	27.47	-6.02	21.22	21.33	21.45
3Txslots	25.51	25.60	25.73	-4.26	21.25	21.34	21.47
4 Txslots	24.22	24.29	24.42	-3.01	21.21	21.28	21.41
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	(dB)	810	661	512
1 Txslot	25.37	25.38	25.15	-9.03	16.34	16.35	16.12
2 Txslots	23.97	22.63	22.31	-6.02	17.95	16.61	16.29
3Txslots	20.73	20.81	20.56	-4.26	16.47	16.55	16.30
4 Txslots	19.40	19.48	19.22	-3.01	16.39	16.47	16.21

GSM1900(Hostpot)

PCS1900	Conducted Power (dBm)						
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)				
	27.27	27.37	27.50				
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	27.24	27.36	27.48	-9.03	18.21	18.33	18.45
2 Txslots	24.23	24.31	24.45	-6.02	18.21	18.29	18.43
3Txslots	22.52	22.61	22.75	-4.26	18.26	18.35	18.49
4 Txslots	21.30	21.40	21.53	-3.01	18.29	18.39	18.52
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	27.24	27.36	27.49	-9.03	18.21	18.33	18.46
2 Txslots	24.22	24.30	24.45	-6.02	18.20	18.28	18.43
3Txslots	22.52	22.61	22.76	-4.26	18.26	18.35	18.50
4 Txslots	21.30	21.39	21.54	-3.01	18.29	18.38	18.53
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	(dB)	810	661	512
1 Txslot	22.61	22.63	22.28	-9.03	13.58	13.60	13.25
2 Txslots	19.64	19.69	19.45	-6.02	13.62	13.67	13.43
3Txslots	17.83	17.89	17.64	-4.26	13.57	13.63	13.38
4 Txslots	16.49	16.54	16.29	-3.01	13.48	13.53	13.28

11.1.2 Second antenna

GSM850(receiver on/off)

GSM850	Conducted Power (dBm)						
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)				
	32.71	32.72	32.70				
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	32.77	32.74	32.70	-9.03	23.74	23.71	23.67
2 Txslots	30.13	30.10	30.05	-6.02	24.11	24.08	24.03
3Txslots	28.40	28.36	28.30	-4.26	24.14	24.10	24.04
4 Txslots	27.05	27.00	26.93	-3.01	24.04	23.99	23.92
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	32.68	32.69	32.67	-9.03	23.65	23.66	23.64
2 Txslots	30.07	30.05	30.01	-6.02	24.05	24.03	23.99
3Txslots	28.34	28.31	28.27	-4.26	24.08	24.05	24.01
4 Txslots	27.01	26.96	26.90	-3.01	24.00	23.95	23.89
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	251	190	128	(dB)	251	190	128
1 Txslot	25.80	25.74	26.43	-9.03	16.77	16.71	17.40
2 Txslots	22.91	23.31	23.35	-6.02	16.89	17.29	17.33
3Txslots	20.98	20.97	20.78	-4.26	16.72	16.71	16.52
4 Txslots	19.39	19.32	19.18	-3.01	16.38	16.31	16.17

GSM850(Hostpot)

GSM850	Conducted Power (dBm)						
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)				
	30.09	30.08	30.07				
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	30.07	30.06	30.03	-9.03	21.04	21.03	21.00
2 Txslots	27.06	27.02	26.98	-6.02	21.04	21.00	20.96
3Txslots	25.44	25.38	25.39	-4.26	21.18	21.12	21.13
4 Txslots	24.07	24.00	23.89	-3.01	21.06	20.99	20.88
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	251	190	128	(dB)	251	190	128
1 Txslot	30.00	30.02	30.03	-9.03	20.97	20.99	21.00
2 Txslots	27.00	26.99	26.98	-6.02	20.98	20.97	20.96
3Txslots	25.29	25.26	25.37	-4.26	21.03	21.00	21.11
4 Txslots	24.03	23.97	23.88	-3.01	21.02	20.96	20.87
GSM 850	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	251	190	128	(dB)	251	190	128
1 Txslot	23.04	22.87	22.68	-9.03	14.01	13.84	13.65
2 Txslots	19.82	19.73	19.60	-6.02	13.80	13.71	13.58
3Txslots	17.94	17.69	17.55	-4.26	13.68	13.43	13.29
4 Txslots	16.26	16.26	16.10	-3.01	13.25	13.25	13.09

GSM1900(receiver on)

PCS1900	Conducted Power (dBm)						
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)				
	25.20	25.31	25.45				
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	25.24	25.33	25.48	-9.03	16.21	16.30	16.45
2 Txslots	22.22	22.30	22.45	-6.02	16.20	16.28	16.43
3Txslots	20.52	20.57	20.73	-4.26	16.26	16.31	16.47
4 Txslots	19.28	19.38	19.51	-3.01	16.27	16.37	16.50
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	25.21	25.32	25.46	-9.03	16.18	16.29	16.43
2 Txslots	22.20	22.29	22.44	-6.02	16.18	16.27	16.42
3Txslots	20.51	20.57	20.72	-4.26	16.25	16.31	16.46
4 Txslots	19.27	19.38	19.50	-3.01	16.26	16.37	16.49
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	(dB)	810	661	512
1 Txslot	20.50	20.55	20.66	-9.03	11.47	11.52	11.63
2 Txslots	17.57	18.04	17.39	-6.02	11.55	12.02	11.37
3Txslots	15.75	15.78	15.57	-4.26	11.49	11.52	11.31
4 Txslots	14.79	14.44	14.23	-3.01	11.78	11.43	11.22

GSM1900(receiver off)

PCS1900	Conducted Power (dBm)						
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)				
	28.31	28.23	28.21				
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	28.13	28.23	28.39	-9.03	19.10	19.20	19.36
2 Txslots	25.24	25.33	25.47	-6.02	19.22	19.31	19.45
3Txslots	23.51	23.58	23.75	-4.26	19.25	19.32	19.49
4 Txslots	22.21	22.29	22.44	-3.01	19.20	19.28	19.43
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	28.10	28.22	28.38	-9.03	19.07	19.19	19.35
2 Txslots	25.21	25.31	25.46	-6.02	19.19	19.29	19.44
3Txslots	23.49	23.56	23.75	-4.26	19.23	19.30	19.49
4 Txslots	22.19	22.27	22.43	-3.01	19.18	19.26	19.42
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	(dB)	810	661	512
1 Txslot	23.44	23.46	23.25	-9.03	14.41	14.43	14.22
2 Txslots	20.48	20.53	20.83	-6.02	14.46	14.51	14.81
3Txslots	18.68	18.74	19.05	-4.26	14.42	14.48	14.79
4 Txslots	17.29	17.31	17.26	-3.01	14.28	14.30	14.25

GSM1900(Hostpot)

PCS1900	Conducted Power (dBm)						
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)				
	24.74	24.83	24.99				
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	24.70	24.81	24.97	-9.03	15.67	15.78	15.94
2 Txslots	21.73	21.82	21.99	-6.02	15.71	15.80	15.97
3Txslots	20.05	20.25	20.41	-4.26	15.79	15.99	16.15
4 Txslots	18.77	18.88	19.06	-3.01	15.76	15.87	16.05
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	(dB)	810	661	512
1 Txslot	24.69	24.79	24.95	-9.03	15.66	15.76	15.92
2 Txslots	21.73	21.80	21.97	-6.02	15.71	15.78	15.95
3Txslots	20.24	20.23	20.39	-4.26	15.98	15.97	16.13
4 Txslots	18.76	18.85	19.04	-3.01	15.75	15.84	16.03
PCS1900	Burst Power (dBm)			calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	(dB)	810	661	512
1 Txslot	20.08	20.06	19.82	-9.03	11.05	11.03	10.79
2 Txslots	17.07	17.09	16.87	-6.02	11.05	11.07	10.85
3Txslots	15.24	15.30	15.08	-4.26	10.98	11.04	10.82
4 Txslots	13.86	13.92	14.24	-3.01	10.85	10.91	11.23

11.2 WCDMA Measurement result

Maximum Target Power for Production Unit

Antenna		Main antenna					
UMTS Band		UMTS Band II					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	0.0	24.0	-1.5	1.0	22.5	25.0
	12.2kbps AMR	0.0	24.0	-1.5	1.0	22.5	25.0
HSDPA	Subtest 1	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 2	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 3	0.0	21.8	-1.5	1.0	20.3	22.8
	Subtest 4	0.0	21.8	-1.5	1.0	20.3	22.8
HSUPA	Subtest 1	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 2	0.0	20.3	-1.5	1.0	18.8	21.3
	Subtest 3	0.0	21.3	-1.5	1.0	19.8	22.3
	Subtest 4	0.0	20.3	-1.5	1.0	18.8	21.3
	Subtest 5	0.0	22.3	-1.5	1.0	20.8	23.3
DC-HSDPA	Subtest 1	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 2	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 3	0.0	21.8	-1.5	1.0	20.3	22.8
	Subtest 4	0.0	21.8	-1.5	1.0	20.3	22.8
HSPA+	Subtest 1(UL 16	0.0	20.8	-1.5	1.0	19.3	21.8

Antenna		Second antenna					
UMTS Band		UMTS Band II					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	8.0	16.0	-1.5	1.0	14.5	17.0
	12.2kbps AMR	8.0	16.0	-1.5	1.0	14.5	17.0
HSDPA	Subtest 1	8.0	14.3	-1.5	1.0	12.8	15.3
	Subtest 2	8.0	14.3	-1.5	1.0	12.8	15.3
	Subtest 3	8.0	13.8	-1.5	1.0	12.3	14.8
	Subtest 4	8.0	13.8	-1.5	1.0	12.3	14.8
HSUPA	Subtest 1	8.0	14.3	-1.5	1.0	12.8	15.3
	Subtest 2	8.0	12.3	-1.5	1.0	10.8	13.3
	Subtest 3	8.0	13.3	-1.5	1.0	11.8	14.3
	Subtest 4	8.0	12.3	-1.5	1.0	10.8	13.3
	Subtest 5	8.0	14.3	-1.5	1.0	12.8	15.3
DC-HSDPA	Subtest 1	8.0	14.3	-1.5	1.0	12.8	15.3
	Subtest 2	8.0	14.3	-1.5	1.0	12.8	15.3
	Subtest 3	8.0	13.8	-1.5	1.0	12.3	14.8
	Subtest 4	8.0	13.8	-1.5	1.0	12.3	14.8
HSPA+	Subtest 1(UL 16	8.0	12.8	-1.5	1.0	11.3	13.8

Antenna		Main antenna					
UMTS Band		UMTS Band II					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	1.5	22.5	-1.5	1.0	21.0	23.5
	12.2kbps AMR	1.5	22.5	-1.5	1.0	21.0	23.5
HSDPA	Subtest 1	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 2	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 3	1.5	20.3	-1.5	1.0	18.8	21.3
	Subtest 4	1.5	20.3	-1.5	1.0	18.8	21.3
HSUPA	Subtest 1	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 2	1.5	18.8	-1.5	1.0	17.3	19.8
	Subtest 3	1.5	19.8	-1.5	1.0	18.3	20.8
	Subtest 4	1.5	18.8	-1.5	1.0	17.3	19.8
	Subtest 5	1.5	20.8	-1.5	1.0	19.3	21.8
DC-HSDPA	Subtest 1	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 2	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 3	1.5	20.3	-1.5	1.0	18.8	21.3
	Subtest 4	1.5	20.3	-1.5	1.0	18.8	21.3
HSPA+	Subtest 1(UL 16	1.5	19.3	-1.5	1.0	17.8	20.3

Antenna		Second antenna					
UMTS Band		UMTS Band II					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	5.0	19.0	-1.5	1.0	17.5	20.0
	12.2kbps AMR	5.0	19.0	-1.5	1.0	17.5	20.0
HSDPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 3	5.0	16.8	-1.5	1.0	15.3	17.8
	Subtest 4	5.0	16.8	-1.5	1.0	15.3	17.8
HSUPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 3	5.0	16.3	-1.5	1.0	14.8	17.3
	Subtest 4	5.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 5	5.0	17.3	-1.5	1.0	15.8	18.3
DC-HSDPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 3	5.0	16.8	-1.5	1.0	15.3	17.8
	Subtest 4	5.0	16.8	-1.5	1.0	15.3	17.8
HSPA+	Subtest 1(UL 16	5.0	15.8	-1.5	1.0	14.3	16.8

Antenna		Second antenna					
UMTS Band		UMTS Band II					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	5.0	19.0	-1.5	1.0	17.5	20.0
	12.2kbps AMR	5.0	19.0	-1.5	1.0	17.5	20.0
HSDPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 3	5.0	16.8	-1.5	1.0	15.3	17.8
	Subtest 4	5.0	16.8	-1.5	1.0	15.3	17.8
HSUPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 3	5.0	16.3	-1.5	1.0	14.8	17.3
	Subtest 4	5.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 5	5.0	17.3	-1.5	1.0	15.8	18.3
DC-HSDPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 3	5.0	16.8	-1.5	1.0	15.3	17.8
	Subtest 4	5.0	16.8	-1.5	1.0	15.3	17.8
HSPA+	Subtest 1(UL 16	5.0	15.8	-1.5	1.0	14.3	16.8

Antenna		Main antenna					
UMTS Band		UMTS Band II					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	5.0	19.0	-1.5	1.0	17.5	20.0
	12.2kbps AMR	5.0	19.0	-1.5	1.0	17.5	20.0
HSDPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 3	5.0	16.8	-1.5	1.0	15.3	17.8
	Subtest 4	5.0	16.8	-1.5	1.0	15.3	17.8
HSUPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 3	5.0	16.3	-1.5	1.0	14.8	17.3
	Subtest 4	5.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 5	5.0	17.3	-1.5	1.0	15.8	18.3
DC-HSDPA	Subtest 1	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 2	5.0	17.3	-1.5	1.0	15.8	18.3
	Subtest 3	5.0	16.8	-1.5	1.0	15.3	17.8
	Subtest 4	5.0	16.8	-1.5	1.0	15.3	17.8
HSPA+	Subtest 1(UL 16	5.0	15.8	-1.5	1.0	14.3	16.8

Antenna		Second antenna					
UMTS Band		UMTS Band II					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	8.5	15.5	-1.5	1.0	14.0	16.5
	12.2kbps AMR	8.5	15.5	-1.5	1.0	14.0	16.5
HSDPA	Subtest 1	8.5	13.8	-1.5	1.0	12.3	14.8
	Subtest 2	8.5	13.8	-1.5	1.0	12.3	14.8
	Subtest 3	8.5	13.3	-1.5	1.0	11.8	14.3
	Subtest 4	8.5	13.3	-1.5	1.0	11.8	14.3
HSUPA	Subtest 1	8.5	13.8	-1.5	1.0	12.3	14.8
	Subtest 2	8.5	11.8	-1.5	1.0	10.3	12.8
	Subtest 3	8.5	12.8	-1.5	1.0	11.3	13.8
	Subtest 4	8.5	11.8	-1.5	1.0	10.3	12.8
	Subtest 5	8.5	13.8	-1.5	1.0	12.3	14.8
DC-HSDPA	Subtest 1	8.5	13.8	-1.5	1.0	12.3	14.8
	Subtest 2	8.5	13.8	-1.5	1.0	12.3	14.8
	Subtest 3	8.5	13.3	-1.5	1.0	11.8	14.3
	Subtest 4	8.5	13.3	-1.5	1.0	11.8	14.3
HSPA+	Subtest 1(UL 16	8.5	12.3	-1.5	1.0	10.8	13.3

Antenna		Main antenna					
UMTS Band		UMTS Band IV					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	0.0	23.9	-1.5	1.0	22.4	24.9
	12.2kbps AMR	0.0	23.9	-1.5	1.0	22.4	24.9
HSDPA	Subtest 1	0.0	22.8	-1.5	1.0	21.3	23.8
	Subtest 2	0.0	22.8	-1.5	1.0	21.3	23.8
	Subtest 3	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 4	0.0	22.3	-1.5	1.0	20.8	23.3
HSUPA	Subtest 1	0.0	21.8	-1.5	1.0	20.3	22.8
	Subtest 2	0.0	21.0	-1.5	1.0	19.5	22.0
	Subtest 3	0.0	21.0	-1.5	1.0	19.5	22.0
	Subtest 4	0.0	21.2	-1.5	1.0	19.7	22.2
	Subtest 5	0.0	22.8	-1.5	1.0	21.3	23.8
DC-HSDPA	Subtest 1	0.0	22.8	-1.5	1.0	21.3	23.8
	Subtest 2	0.0	22.8	-1.5	1.0	21.3	23.8
	Subtest 3	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 4	0.0	22.3	-1.5	1.0	20.8	23.3
HSPA+	Subtest 1(UL 16	0.0	20.8	-1.5	1.0	19.3	21.8

Antenna		Second antenna					
UMTS Band		UMTS Band IV					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	6.5	17.4	-1.5	1.0	15.9	18.4
	12.2kbps AMR	6.5	17.4	-1.5	1.0	15.9	18.4
HSDPA	Subtest 1	6.5	16.3	-1.5	1.0	14.8	17.3
	Subtest 2	6.5	16.3	-1.5	1.0	14.8	17.3
	Subtest 3	6.5	15.8	-1.5	1.0	14.3	16.8
	Subtest 4	6.5	15.8	-1.5	1.0	14.3	16.8
HSUPA	Subtest 1	6.5	15.3	-1.5	1.0	13.8	16.3
	Subtest 2	6.5	14.5	-1.5	1.0	13.0	15.5
	Subtest 3	6.5	14.5	-1.5	1.0	13.0	15.5
	Subtest 4	6.5	14.7	-1.5	1.0	13.2	15.7
	Subtest 5	6.5	16.3	-1.5	1.0	14.8	17.3
DC-HSDPA	Subtest 1	6.5	16.3	-1.5	1.0	14.8	17.3
	Subtest 2	6.5	16.3	-1.5	1.0	14.8	17.3
	Subtest 3	6.5	15.8	-1.5	1.0	14.3	16.8
	Subtest 4	6.5	15.8	-1.5	1.0	14.3	16.8
HSPA+	Subtest 1(UL 16	6.5	14.3	-1.5	1.0	12.8	15.3

Antenna		Main antenna					
UMTS Band		UMTS Band IV					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	1.5	22.4	-1.5	1.0	20.9	23.4
	12.2kbps AMR	1.5	22.4	-1.5	1.0	20.9	23.4
HSDPA	Subtest 1	1.5	21.3	-1.5	1.0	19.8	22.3
	Subtest 2	1.5	21.3	-1.5	1.0	19.8	22.3
	Subtest 3	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 4	1.5	20.8	-1.5	1.0	19.3	21.8
HSUPA	Subtest 1	1.5	20.3	-1.5	1.0	18.8	21.3
	Subtest 2	1.5	19.5	-1.5	1.0	18.0	20.5
	Subtest 3	1.5	19.5	-1.5	1.0	18.0	20.5
	Subtest 4	1.5	19.7	-1.5	1.0	18.2	20.7
	Subtest 5	1.5	21.3	-1.5	1.0	19.8	22.3
DC-HSDPA	Subtest 1	1.5	21.3	-1.5	1.0	19.8	22.3
	Subtest 2	1.5	21.3	-1.5	1.0	19.8	22.3
	Subtest 3	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 4	1.5	20.8	-1.5	1.0	19.3	21.8
HSPA+	Subtest 1(UL 16	1.5	19.3	-1.5	1.0	17.8	20.3

Antenna		Second antenna					
UMTS Band		UMTS Band IV					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	3.0	20.9	-1.5	1.0	19.4	21.9
	12.2kbps AMR	3.0	20.9	-1.5	1.0	19.4	21.9
HSDPA	Subtest 1	3.0	19.8	-1.5	1.0	18.3	20.8
	Subtest 2	3.0	19.8	-1.5	1.0	18.3	20.8
	Subtest 3	3.0	19.3	-1.5	1.0	17.8	20.3
	Subtest 4	3.0	19.3	-1.5	1.0	17.8	20.3
HSUPA	Subtest 1	3.0	18.8	-1.5	1.0	17.3	19.8
	Subtest 2	3.0	18.0	-1.5	1.0	16.5	19.0
	Subtest 3	3.0	18.0	-1.5	1.0	16.5	19.0
	Subtest 4	3.0	18.2	-1.5	1.0	16.7	19.2
	Subtest 5	3.0	19.8	-1.5	1.0	18.3	20.8
DC-HSDPA	Subtest 1	3.0	19.8	-1.5	1.0	18.3	20.8
	Subtest 2	3.0	19.8	-1.5	1.0	18.3	20.8
	Subtest 3	3.0	19.3	-1.5	1.0	17.8	20.3
	Subtest 4	3.0	19.3	-1.5	1.0	17.8	20.3
HSPA+	Subtest 1(UL 16	3.0	17.8	-1.5	1.0	16.3	18.8

Antenna		Main antenna					
UMTS Band		UMTS Band IV					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	4.0	19.9	-1.5	1.0	18.4	20.9
	12.2kbps AMR	4.0	19.9	-1.5	1.0	18.4	20.9
HSDPA	Subtest 1	4.0	18.8	-1.5	1.0	17.3	19.8
	Subtest 2	4.0	18.8	-1.5	1.0	17.3	19.8
	Subtest 3	4.0	18.3	-1.5	1.0	16.8	19.3
	Subtest 4	4.0	18.3	-1.5	1.0	16.8	19.3
HSUPA	Subtest 1	4.0	17.8	-1.5	1.0	16.3	18.8
	Subtest 2	4.0	17.0	-1.5	1.0	15.5	18.0
	Subtest 3	4.0	17.0	-1.5	1.0	15.5	18.0
	Subtest 4	4.0	17.2	-1.5	1.0	15.7	18.2
	Subtest 5	4.0	18.8	-1.5	1.0	17.3	19.8
DC-HSDPA	Subtest 1	4.0	18.8	-1.5	1.0	17.3	19.8
	Subtest 2	4.0	18.8	-1.5	1.0	17.3	19.8
	Subtest 3	4.0	18.3	-1.5	1.0	16.8	19.3
	Subtest 4	4.0	18.3	-1.5	1.0	16.8	19.3
HSPA+	Subtest 1(UL 16	4.0	16.8	-1.5	1.0	15.3	17.8

Antenna		Second antenna					
UMTS Band		UMTS Band IV					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	7.0	16.9	-1.5	1.0	15.4	17.9
	12.2kbps AMR	7.0	16.9	-1.5	1.0	15.4	17.9
HSDPA	Subtest 1	7.0	15.8	-1.5	1.0	14.3	16.8
	Subtest 2	7.0	15.8	-1.5	1.0	14.3	16.8
	Subtest 3	7.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 4	7.0	15.3	-1.5	1.0	13.8	16.3
HSUPA	Subtest 1	7.0	14.8	-1.5	1.0	13.3	15.8
	Subtest 2	7.0	14.0	-1.5	1.0	12.5	15.0
	Subtest 3	7.0	14.0	-1.5	1.0	12.5	15.0
	Subtest 4	7.0	14.2	-1.5	1.0	12.7	15.2
	Subtest 5	7.0	15.8	-1.5	1.0	14.3	16.8
DC-HSDPA	Subtest 1	7.0	15.8	-1.5	1.0	14.3	16.8
	Subtest 2	7.0	15.8	-1.5	1.0	14.3	16.8
	Subtest 3	7.0	15.3	-1.5	1.0	13.8	16.3
	Subtest 4	7.0	15.3	-1.5	1.0	13.8	16.3
HSPA+	Subtest 1(UL 16	7.0	13.8	-1.5	1.0	12.3	14.8

Antenna		Main antenna					
UMTS Band		UMTS Band V					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	0.0	24.0	-1.5	1.0	22.5	25.0
	12.2kbps AMR	0.0	24.0	-1.5	1.0	22.5	25.0
HSDPA	Subtest 1	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 2	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 3	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 4	0.0	23.0	-1.5	1.0	21.5	24.0
HSUPA	Subtest 1	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 2	0.0	21.5	-1.5	1.0	20.0	22.5
	Subtest 3	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 4	0.0	21.8	-1.5	1.0	20.3	22.8
	Subtest 5	0.0	23.6	-1.5	1.0	22.1	24.6
DC-HSDPA	Subtest 1	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 2	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 3	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 4	0.0	23.0	-1.5	1.0	21.5	24.0
HSPA+	Subtest 1(UL 16	0.0	20.8	-1.5	1.0	19.3	21.8

Antenna		Second antenna					
UMTS Band		UMTS Band V					
EUT State		rev on					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	1.0	23.0	-1.5	1.0	21.5	24.0
	12.2kbps AMR	1.0	23.0	-1.5	1.0	21.5	24.0
HSDPA	Subtest 1	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 2	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 3	1.0	22.0	-1.5	1.0	20.5	23.0
	Subtest 4	1.0	22.0	-1.5	1.0	20.5	23.0
HSUPA	Subtest 1	1.0	22.0	-1.5	1.0	20.5	23.0
	Subtest 2	1.0	20.5	-1.5	1.0	19.0	21.5
	Subtest 3	1.0	21.3	-1.5	1.0	19.8	22.3
	Subtest 4	1.0	20.8	-1.5	1.0	19.3	21.8
	Subtest 5	1.0	22.6	-1.5	1.0	21.1	23.6
DC-HSDPA	Subtest 1	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 2	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 3	1.0	22.0	-1.5	1.0	20.5	23.0
	Subtest 4	1.0	22.0	-1.5	1.0	20.5	23.0
HSPA+	Subtest 1(UL 16	1.0	19.8	-1.5	1.0	18.3	20.8

Antenna		Main antenna					
UMTS Band		UMTS Band V					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	0.0	24.0	-1.5	1.0	22.5	25.0
	12.2kbps AMR	0.0	24.0	-1.5	1.0	22.5	25.0
HSDPA	Subtest 1	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 2	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 3	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 4	0.0	23.0	-1.5	1.0	21.5	24.0
HSUPA	Subtest 1	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 2	0.0	21.5	-1.5	1.0	20.0	22.5
	Subtest 3	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 4	0.0	21.8	-1.5	1.0	20.3	22.8
	Subtest 5	0.0	23.6	-1.5	1.0	22.1	24.6
DC-HSDPA	Subtest 1	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 2	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 3	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 4	0.0	23.0	-1.5	1.0	21.5	24.0
HSPA+	Subtest 1(UL 16	0.0	20.8	-1.5	1.0	19.3	21.8

Antenna		Second antenna					
UMTS Band		UMTS Band V					
EUT State		rev off					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	0.0	24.0	-1.5	1.0	22.5	25.0
	12.2kbps AMR	0.0	24.0	-1.5	1.0	22.5	25.0
HSDPA	Subtest 1	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 2	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 3	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 4	0.0	23.0	-1.5	1.0	21.5	24.0
HSUPA	Subtest 1	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 2	0.0	21.5	-1.5	1.0	20.0	22.5
	Subtest 3	0.0	22.3	-1.5	1.0	20.8	23.3
	Subtest 4	0.0	21.8	-1.5	1.0	20.3	22.8
	Subtest 5	0.0	23.6	-1.5	1.0	22.1	24.6
DC-HSDPA	Subtest 1	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 2	0.0	23.5	-1.5	1.0	22.0	24.5
	Subtest 3	0.0	23.0	-1.5	1.0	21.5	24.0
	Subtest 4	0.0	23.0	-1.5	1.0	21.5	24.0
HSPA+	Subtest 1(UL 16	0.0	20.8	-1.5	1.0	19.3	21.8

Antenna		Main antenna					
UMTS Band		UMTS Band V					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	1.0	23.0	-1.5	1.0	21.5	24.0
	12.2kbps AMR	1.0	23.0	-1.5	1.0	21.5	24.0
HSDPA	Subtest 1	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 2	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 3	1.0	22.0	-1.5	1.0	20.5	23.0
	Subtest 4	1.0	22.0	-1.5	1.0	20.5	23.0
HSUPA	Subtest 1	1.0	22.0	-1.5	1.0	20.5	23.0
	Subtest 2	1.0	20.5	-1.5	1.0	19.0	21.5
	Subtest 3	1.0	21.3	-1.5	1.0	19.8	22.3
	Subtest 4	1.0	20.8	-1.5	1.0	19.3	21.8
	Subtest 5	1.0	22.6	-1.5	1.0	21.1	23.6
DC-HSDPA	Subtest 1	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 2	1.0	22.5	-1.5	1.0	21.0	23.5
	Subtest 3	1.0	22.0	-1.5	1.0	20.5	23.0
	Subtest 4	1.0	22.0	-1.5	1.0	20.5	23.0
HSPA+	Subtest 1(UL 16	1.0	19.8	-1.5	1.0	18.3	20.8

Antenna		Second antenna					
UMTS Band		UMTS Band V					
EUT State		hotspot					
Test Mode		TUNE-UP Information					
		Power Reduce (dB)	Target Power (dBm)	Tolerance(dB)		Min(dBm)	Max(dBm)
WCDMA	12.2kbps RMC	1.5	22.5	-1.5	1.0	21.0	23.5
	12.2kbps AMR	1.5	22.5	-1.5	1.0	21.0	23.5
HSDPA	Subtest 1	1.5	22.0	-1.5	1.0	20.5	23.0
	Subtest 2	1.5	22.0	-1.5	1.0	20.5	23.0
	Subtest 3	1.5	21.5	-1.5	1.0	20.0	22.5
	Subtest 4	1.5	21.5	-1.5	1.0	20.0	22.5
HSUPA	Subtest 1	1.5	21.5	-1.5	1.0	20.0	22.5
	Subtest 2	1.5	20.0	-1.5	1.0	18.5	21.0
	Subtest 3	1.5	20.8	-1.5	1.0	19.3	21.8
	Subtest 4	1.5	20.3	-1.5	1.0	18.8	21.3
	Subtest 5	1.5	22.1	-1.5	1.0	20.6	23.1
DC-HSDPA	Subtest 1	1.5	22.0	-1.5	1.0	20.5	23.0
	Subtest 2	1.5	22.0	-1.5	1.0	20.5	23.0
	Subtest 3	1.5	21.5	-1.5	1.0	20.0	22.5
	Subtest 4	1.5	21.5	-1.5	1.0	20.0	22.5
HSPA+	Subtest 1(UL 16	1.5	19.3	-1.5	1.0	17.8	20.3

11.2.1 Main antenna

WCDMA1900(receiver on)

WCDMA1900	FDDII result (dBm)		
	9538/9938	9400/9800	9262/9662
	(1907.6MHz)	(1880MHz)	(1852.4MHz)
	24.16	24.08	24.13
HSUPA	21.33	21.35	21.34
	21.25	21.28	21.24
	22.24	22.29	22.26
	20.76	20.79	20.78
	22.21	22.24	22.19
HSPA+	20.63	20.74	20.71
DC-HSDPA	23.18	22.85	23.24
	23.04	23.18	23.11
	22.72	22.71	22.65
	22.67	22.75	22.69

WCDMA1900 (receiver off)

WCDMA1900	FDDII result (dBm)		
	9538/9938	9400/9800	9262/9662
	(1907.6MHz)	(1880MHz)	(1852.4MHz)
	22.56	22.62	22.58
HSUPA	20.67	20.69	20.68
	19.53	19.61	19.58
	20.61	20.54	20.63
	19.73	19.75	19.72
	21.65	21.68	21.63
HSPA+	19.62	19.78	19.74
DC-HSDPA	21.72	21.39	21.78
	21.58	21.72	21.65
	21.26	21.25	21.19
	21.21	21.29	21.23

WCDMA1900 (Hostpot)

WCDMA1900	FDDII result (dBm)		
	9538/9938	9400/9800	9262/9662
	(1907.6MHz)	(1880MHz)	(1852.4MHz)
	19.12	19.22	19.17
HSUPA	17.15	17.17	17.16
	16.11	16.09	16.12
	17.13	17.15	17.12
	16.08	16.12	16.01
	18.13	18.16	18.11
HSPA+	16.05	16.12	16.08
DC-HSDPA	18.16	17.83	18.22
	18.02	18.16	18.09
	17.7	17.69	17.63
	17.65	17.73	17.67

WCDMA1700(receiver on)

WCDMA1700	FDDIV result (dBm)		
	1513/1738	1412/1637	1312/1537
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
	24.07	24.02	24.11
HSUPA	21.06	21.06	21.07
	21.1	21.04	21.10
	21.98	21.93	21.92
	20.58	20.59	20.53
	22.03	22.04	22.03
HSPA+	20.56	20.68	20.41
DC-HSDPA	23.02	23.03	23.02
	22.92	22.87	22.96
	22.44	22.50	22.49
	22.45	22.47	22.49

WCDMA1700 (receiver off)

WCDMA1700	FDDIV result (dBm)		
	1513/1738	1412/1637	1312/1537
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
	22.53	22.56	22.52
HSUPA	19.59	19.59	19.60
	19.63	19.57	19.63
	20.41	20.46	20.45
	19.11	19.12	19.06
	20.56	20.57	20.56
HSPA+	19.03	19.12	18.96
DC-HSDPA	20.61	20.62	20.61
	20.51	20.46	20.55
	20.03	20.09	20.08
	20.04	20.06	20.08

WCDMA1700 (Hostpot)

WCDMA1700	FDDIV result (dBm)		
	1513/1738	1412/1637	1312/1537
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
	19.89	20.04	19.98
HSUPA	16.97	16.97	16.98
	17.01	16.95	17.01
	17.99	17.94	17.93
	16.49	16.50	16.44
	17.94	17.95	17.94
HSPA+	16.02	16.03	16.01
DC-HSDPA	17.96	17.97	17.96
	17.86	17.81	17.90
	17.38	17.44	17.43
	17.39	17.41	17.43

WCDMA850(receiver on/off)

WCDMA850	FDDV result (dBm)		
	4233/4458	4183/4408	4132/4357
	(846.6MHz)	(836.6MHz)	(826.4MHz)
	24.06	24.03	24.09
HSUPA	21.58	21.56	21.52
	21.17	21.15	21.21
	22.18	22.14	22.22
	20.7	20.71	20.68
	22.12	22.13	22.18
HSPA+	20.58	20.61	20.49
DC-HSDPA	23.4	23.41	23.50
	22.99	23.27	23.43
	22.85	22.89	23.01
	22.86	22.57	22.61

WCDMA850 (Hostpot)

WCDMA850	FDDV result (dBm)		
	4233/4458	4183/4408	4132/4357
	(846.6MHz)	(836.6MHz)	(826.4MHz)
	23.09	23.12	23.10
HSUPA	21.1	21.08	21.12
	21.09	21.07	21.13
	20.41	20.66	20.34
	19.92	19.93	19.96
	21.64	21.65	21.61
HSPA+	19.82	19.71	19.83
DC-HSDPA	21.64	21.65	21.54
	21.63	21.71	21.67
	21.09	21.03	21.05
	20.9	20.61	20.65

11.2.2 Second antenna

WCDMA1900(receiver on)

WCDMA1900	FDDII result (dBm)		
	9538/9938	9400/9800	9262/9662
	(1907.6MHz)	(1880MHz)	(1852.4MHz)
	16.05	16.12	15.94
HSUPA	14.04	14.07	14.05
	13.01	13.06	13.08
	14.11	14.05	14.03
	13.25	13.26	13.28
	15.02	15.04	15.03
HSPA+	13.39	13.32	13.51
DC-HSDPA	15.05	15.14	15.17
	14.99	15.04	14.81
	14.58	14.60	14.67
	14.59	14.66	14.64

WCDMA1900 (receiver off)

WCDMA1900	FDDII result (dBm)		
	9538/9938	9400/9800	9262/9662
	(1907.6MHz)	(1880MHz)	(1852.4MHz)
	18.97	19.05	18.94
HSUPA	16.19	16.22	16.20
	16.17	16.25	16.23
	17.2	17.22	17.23
	15.7	15.71	15.73
	17.15	17.19	17.18
HSPA+	16.42	16.41	16.34
DC-HSDPA	18.22	18.21	18.24
	18.26	18.24	18.28
	17.75	17.72	17.74
	17.76	17.74	17.73

WCDMA1900 (Hostpot)

WCDMA1900	FDDII result (dBm)		
	9538/9938	9400/9800	9262/9662
	(1907.6MHz)	(1880MHz)	(1852.4MHz)
	15.53	15.49	15.58
HSUPA	13.56	13.59	13.57
	12.35	12.42	12.38
	13.46	13.51	13.49
	13.07	13.08	13.10
	14.52	14.56	14.55
HSPA+	12.96	12.98	13.04
DC-HSDPA	14.49	14.58	14.61
	14.43	14.48	14.25
	14.02	14.04	14.11
	14.03	14.10	14.08

WCDMA1700(receiver on)

WCDMA1700	FDDIV result (dBm)		
	1513/1738	1412/1637	1312/1537
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
	17.53	17.49	17.56
HSUPA	14.55	14.57	14.58
	14.59	14.57	14.59
	15.48	15.46	15.49
	14.11	14.07	14.05
	15.57	15.55	15.54
HSPA+	14.03	14.06	14.02
DC-HSDPA	15.54	15.63	15.66
	15.4	15.58	15.50
	15.05	15.13	15.12
	15.04	15.10	15.12

WCDMA1700 (receiver off)

WCDMA1700	FDDIV result (dBm)		
	1513/1738	1412/1637	1312/1537
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
	21.04	20.97	21.06
HSUPA	17.33	17.35	17.36
	17.37	17.35	17.37
	18.36	18.34	18.37
	16.89	16.85	16.83
	18.35	18.33	18.32
HSPA+	17.53	17.56	17.71
DC-HSDPA	20.07	20.16	20.19
	19.93	20.11	20.03
	19.58	19.66	19.65
	19.57	19.63	19.65

WCDMA1700 (Hostpot)

WCDMA1700	FDDIV result (dBm)		
	1513/1738	1412/1637	1312/1537
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
	17.05	16.97	17.02
HSUPA	14.05	14.07	14.08
	14.09	14.07	14.09
	14.98	14.96	14.89
	13.61	13.57	13.55
	15.07	15.05	15.04
HSPA+	13.62	13.68	13.59
DC-HSDPA	15.04	15.13	15.16
	14.9	15.08	15.00
	14.55	14.63	14.62
	14.54	14.60	14.62

WCDMA850(receiver on)

WCDMA850	FDDV result (dBm)		
	4233/4458	4183/4408	4132/4357
	(846.6MHz)	(836.6MHz)	(826.4MHz)
	22.91	23.02	22.97
HSUPA	20.55	20.59	20.53
	19.45	19.88	19.90
	20.93	20.89	20.96
	19.49	19.39	19.44
	21.53	21.87	21.92
HSPA+	19.33	19.34	19.36
DC-HSDPA	21.25	21.18	21.01
	21.04	21.02	21.02
	20.62	20.63	20.68
	20.51	20.54	20.55

WCDMA850 (receiver off)

WCDMA850	FDDV result (dBm)		
	4233/4458	4183/4408	4132/4357
	(846.6MHz)	(836.6MHz)	(826.4MHz)
	23.92	23.97	23.95
HSUPA	22.08	22.14	22.12
	20.55	20.88	20.90
	21.93	21.89	21.96
	20.49	20.39	20.44
	22.63	22.77	22.62
HSPA+	20.58	20.62	20.61
DC-HSDPA	22.05	22.08	22.01
	22.04	22.02	22.06
	21.62	21.63	21.68
	21.61	21.64	21.55

WCDMA850 (Hostpot)

WCDMA850	FDDV result (dBm)		
	4233/4458	4183/4408	4132/4357
	(846.6MHz)	(836.6MHz)	(826.4MHz)
	22.43	22.47	22.34
HSUPA	20.53	20.61	20.57
	18.99	19.42	19.44
	20.47	20.43	20.50
	19.03	18.93	18.98
	21.47	21.41	21.46
HSPA+	18.69	18.74	18.73
DC-HSDPA	20.56	20.59	20.52
	20.55	20.53	20.53
	20.03	20.04	20.09
	20.02	20.01	20.06

11.3 LTE Measurement result

Maximum Target Power for Production Unit

Antenna	Main antenna
LTE Band	LTE B2
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	0.0	23.5	-1.5 1.0	22.0	24.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	23.5	-1.5 1.0	22.0	24.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0.0	21.5	-1.5 1.0	20.0	22.5	2

Antenna	Second antenna
LTE Band	LTE B2
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	7.0	16.5	-1.5 1.0	15.0	17.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	7.0	16.5	-1.5 1.0	15.0	17.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	7.0	16.5	-1.5 1.0	15.0	17.5	1
16 QAM	1	1	1	1	1	1	7.0	16.5	-1.5 1.0	15.0	17.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	7.0	16.5	-1.5 1.0	15.0	17.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	7.0	16.5	-1.5 1.0	15.0	17.5	2

Antenna	Main antenna
LTE Band	LTE B2
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	0.5	23.0	-1.5 1.0	21.5	24.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.5	23.0	-1.5 1.0	21.5	24.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0.5	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1	0.5	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.5	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0.5	21.5	-1.5 1.0	20.0	22.5	2

Antenna	Second antenna
LTE Band	LTE B2
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	4.0	19.5	-1.5 1.0	18.0	20.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	4.0	19.5	-1.5 1.0	18.0	20.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	4.0	19.5	-1.5 1.0	18.0	20.5	1
16 QAM	1	1	1	1	1	1	4.0	19.5	-1.5 1.0	18.0	20.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	4.0	19.5	-1.5 1.0	18.0	20.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	4.0	19.5	-1.5 1.0	18.0	20.5	2

Antenna	Main antenna
LTE Band	LTE B2
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	4.5	19.0	-1.5 1.0	17.5	20.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	4.5	19.0	-1.5 1.0	17.5	20.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	4.5	19.0	-1.5 1.0	17.5	20.0	1
16 QAM	1	1	1	1	1	1	4.5	19.0	-1.5 1.0	17.5	20.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	4.5	19.0	-1.5 1.0	17.5	20.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	4.5	19.0	-1.5 1.0	17.5	20.0	2

Antenna	Second antenna
LTE Band	LTE B2
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	7.5	16.0	-1.5 1.0	14.5	17.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	7.5	16.0	-1.5 1.0	14.5	17.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	7.5	16.0	-1.5 1.0	14.5	17.0	1
16 QAM	1	1	1	1	1	1	7.5	16.0	-1.5 1.0	14.5	17.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	7.5	16.0	-1.5 1.0	14.5	17.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	7.5	16.0	-1.5 1.0	14.5	17.0	2

Antenna	Main antenna
LTE Band	LTE B4
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	0.0	23.5	-1.5 1.0	22.0	24.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	23.5	-1.5 1.0	22.0	24.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0.0	21.5	-1.5 1.0	20.0	22.5	2

Antenna	Second antenna
LTE Band	LTE B4
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	5.0	18.5	-1.5 1.0	17.0	19.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.0	18.5	-1.5 1.0	17.0	19.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	5.0	18.5	-1.5 1.0	17.0	19.5	1
16 QAM	1	1	1	1	1	1	5.0	18.5	-1.5 1.0	17.0	19.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.0	18.5	-1.5 1.0	17.0	19.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	5.0	18.5	-1.5 1.0	17.0	19.5	2

Antenna	Main antenna
LTE Band	LTE B4
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	0.0	23.5	-1.5 1.0	22.0	24.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	23.5	-1.5 1.0	22.0	24.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.5	-1.5 1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0.0	21.5	-1.5 1.0	20.0	22.5	2

Antenna	Second antenna
LTE Band	LTE B4
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	2.0	21.5	-1.5 1.0	20.0	22.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2.0	21.5	-1.5 1.0	20.0	22.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	2.0	21.5	-1.5 1.0	20.0	22.5	1
16 QAM	1	1	1	1	1	1	2.0	21.5	-1.5 1.0	20.0	22.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2.0	21.5	-1.5 1.0	20.0	22.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2.0	21.5	-1.5 1.0	20.0	22.5	2

Antenna	Main antenna
LTE Band	LTE B4
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	3.0	20.5	-1.5 1.0	19.0	21.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	3.0	20.5	-1.5 1.0	19.0	21.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	3.0	20.5	-1.5 1.0	19.0	21.5	1
16 QAM	1	1	1	1	1	1	3.0	20.5	-1.5 1.0	19.0	21.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	3.0	20.5	-1.5 1.0	19.0	21.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3.0	20.5	-1.5 1.0	19.0	21.5	2

Antenna	Second antenna
LTE Band	LTE B4
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)	Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	5.5	18.0	-1.5 1.0	16.5	19.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.5	18.0	-1.5 1.0	16.5	19.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	5.5	18.0	-1.5 1.0	16.5	19.0	1
16 QAM	1	1	1	1	1	1	5.5	18.0	-1.5 1.0	16.5	19.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.5	18.0	-1.5 1.0	16.5	19.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	5.5	18.0	-1.5 1.0	16.5	19.0	2

Antenna	Main antenna
LTE Band	LTE B5
EUT State	rev on

Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	> 5	> 4	> 8	> 12	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	0.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Second antenna
LTE Band	LTE B5
EUT State	rev on

Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	> 5	> 4	> 8	> 12	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	1.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Main antenna
LTE Band	LTE B5
EUT State	rev off

Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	> 5	> 4	> 8	> 12	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	0.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Second antenna
LTE Band	LTE B5
EUT State	rev off

Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	> 5	> 4	> 8	> 12	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	0.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Main antenna
LTE Band	LTE B5
EUT State	hotspot

Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	> 5	> 4	> 8	> 12	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	1.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Second antenna
LTE Band	LTE B5
EUT State	hotspot

Modulation	1.4 MHz	3 MHz	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1.5	22.5	-1.5	1.0	21.0	23.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	1.5	22.5	-1.5	1.0	21.0	23.5	0
QPSK	> 5	> 4	> 8	> 12	1.5	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	1	1	1	1	1.5	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	1.5	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	1.5	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Main antenna
LTE Band	LTE B7
EUT State	rev on

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.0	22.9	-1.5	1.0	21.4	23.9	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.9	-1.5	1.0	21.4	23.9	0
QPSK	> 8	> 12	> 16	> 18	0.0	21.9	-1.5	1.0	20.4	22.9	1
16 QAM	1	1	1	1	0.0	21.9	-1.5	1.0	20.4	22.9	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	0.0	21.9	-1.5	1.0	20.4	22.9	1
16 QAM	> 8	> 12	> 16	> 18	0.0	20.9	-1.5	1.0	19.4	21.9	2

Antenna	Second antenna
LTE Band	LTE B7
EUT State	rev on

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	2.0	20.9	-1.5	1.0	19.4	21.9	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	2.0	20.9	-1.5	1.0	19.4	21.9	0
QPSK	> 8	> 12	> 16	> 18	2.0	20.9	-1.5	1.0	19.4	21.9	1
16 QAM	1	1	1	1	2.0	20.9	-1.5	1.0	19.4	21.9	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	2.0	20.9	-1.5	1.0	19.4	21.9	1
16 QAM	> 8	> 12	> 16	> 18	2.0	20.9	-1.5	1.0	19.4	21.9	2

Antenna	Main antenna
LTE Band	LTE B7
EUT State	rev off

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	2.0	20.9	-1.5	1.0	19.4	21.9	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	2.0	20.9	-1.5	1.0	19.4	21.9	0
QPSK	> 8	> 12	> 16	> 18	2.0	20.9	-1.5	1.0	19.4	21.9	1
16 QAM	1	1	1	1	2.0	20.9	-1.5	1.0	19.4	21.9	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	2.0	20.9	-1.5	1.0	19.4	21.9	1
16 QAM	> 8	> 12	> 16	> 18	2.0	20.9	-1.5	1.0	19.4	21.9	2

Antenna	Second antenna
LTE Band	LTE B7
EUT State	rev off

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	3.0	19.9	-1.5	1.0	18.4	20.9	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	3.0	19.9	-1.5	1.0	18.4	20.9	0
QPSK	> 8	> 12	> 16	> 18	3.0	19.9	-1.5	1.0	18.4	20.9	1
16 QAM	1	1	1	1	3.0	19.9	-1.5	1.0	18.4	20.9	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	3.0	19.9	-1.5	1.0	18.4	20.9	1
16 QAM	> 8	> 12	> 16	> 18	3.0	19.9	-1.5	1.0	18.4	20.9	2

Antenna	Main antenna
LTE Band	LTE B7
EUT State	hotspot

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	5.0	17.9	-1.5	1.0	16.4	18.9	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	5.0	17.9	-1.5	1.0	16.4	18.9	0
QPSK	> 8	> 12	> 16	> 18	5.0	17.9	-1.5	1.0	16.4	18.9	1
16 QAM	1	1	1	1	5.0	17.9	-1.5	1.0	16.4	18.9	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	5.0	17.9	-1.5	1.0	16.4	18.9	1
16 QAM	> 8	> 12	> 16	> 18	5.0	17.9	-1.5	1.0	16.4	18.9	2

Antenna	Second antenna
LTE Band	LTE B7
EUT State	hotspot

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	5.5	17.4	-1.5	1.0	15.9	18.4	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	5.5	17.4	-1.5	1.0	15.9	18.4	0
QPSK	> 8	> 12	> 16	> 18	5.5	17.4	-1.5	1.0	15.9	18.4	1
16 QAM	1	1	1	1	5.5	17.4	-1.5	1.0	15.9	18.4	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	5.5	17.4	-1.5	1.0	15.9	18.4	1
16 QAM	> 8	> 12	> 16	> 18	5.5	17.4	-1.5	1.0	15.9	18.4	2

Antenna	Main antenna
LTE Band	LTE B13
EUT State	rev on

Modulation	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
			Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	0.0	23.8	-1.5	1.0	22.3	24.8	0
QPSK	≤ 8	≤ 12	0.0	23.8	-1.5	1.0	22.3	24.8	0
QPSK	> 8	> 12	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	1	1	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	≤ 8	≤ 12	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	> 8	> 12	0.0	21.8	-1.5	1.0	20.3	22.8	2

Antenna	Second antenna
LTE Band	LTE B13
EUT State	rev on

Modulation	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
			Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1.0	22.8	-1.5	1.0	21.3	23.8	0
QPSK	≤ 8	≤ 12	1.0	22.8	-1.5	1.0	21.3	23.8	0
QPSK	> 8	> 12	1.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	1	1	1.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	≤ 8	≤ 12	1.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	> 8	> 12	1.0	21.8	-1.5	1.0	20.3	22.8	2

Antenna	Main antenna
LTE Band	LTE B13
EUT State	rev off

Modulation	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
			Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	0.0	23.8	-1.5	1.0	22.3	24.8	0
QPSK	≤ 8	≤ 12	0.0	23.8	-1.5	1.0	22.3	24.8	0
QPSK	> 8	> 12	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	1	1	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	≤ 8	≤ 12	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	> 8	> 12	0.0	21.8	-1.5	1.0	20.3	22.8	2

Antenna	Second antenna
LTE Band	LTE B13
EUT State	rev off

Modulation	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
			Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	0.0	23.8	-1.5	1.0	22.3	24.8	0
QPSK	≤ 8	≤ 12	0.0	23.8	-1.5	1.0	22.3	24.8	0
QPSK	> 8	> 12	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	1	1	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	≤ 8	≤ 12	0.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	> 8	> 12	0.0	21.8	-1.5	1.0	20.3	22.8	2

Antenna	Main antenna
LTE Band	LTE B13
EUT State	hotspot

Modulation	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
			Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1.0	22.8	-1.5	1.0	21.3	23.8	0
QPSK	≤ 8	≤ 12	1.0	22.8	-1.5	1.0	21.3	23.8	0
QPSK	> 8	> 12	1.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	1	1	1.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	≤ 8	≤ 12	1.0	22.8	-1.5	1.0	21.3	23.8	1
16 QAM	> 8	> 12	1.0	21.8	-1.5	1.0	20.3	22.8	2

Antenna	Second antenna
LTE Band	LTE B13
EUT State	hotspot

Modulation	5 MHz	10 MHz	TUNE-UP Information					MPR allowed by 3GPP (dB)
			Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1.5	22.3	-1.5	1.0	20.8	23.3	0
QPSK	≤ 8	≤ 12	1.5	22.3	-1.5	1.0	20.8	23.3	0
QPSK	> 8	> 12	1.5	22.3	-1.5	1.0	20.8	23.3	1
16 QAM	1	1	1.5	22.3	-1.5	1.0	20.8	23.3	1
16 QAM	≤ 8	≤ 12	1.5	22.3	-1.5	1.0	20.8	23.3	1
16 QAM	> 8	> 12	1.5	21.8	-1.5	1.0	20.3	22.8	2

Antenna	Main antenna
LTE Band	LTE B26
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
						Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	0.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Second antenna
LTE Band	LTE B26
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
						Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	1.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Main antenna
LTE Band	LTE B26
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
						Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	0.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Second antenna
LTE Band	LTE B26
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
						Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	0.0	24.0	-1.5	1.0	22.5	25.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	0.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	0.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Main antenna
LTE Band	LTE B26
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
						Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	1.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	1	1	1	1	1	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	1.0	23.0	-1.5	1.0	21.5	24.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	1.0	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Second antenna
LTE Band	LTE B26
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
						Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1.5	22.5	-1.5	1.0	21.0	23.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	1.5	22.5	-1.5	1.0	21.0	23.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	1.5	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1.5	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	1.5	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	1.5	22.0	-1.5	1.0	20.5	23.0	2

Antenna	Main antenna
LTE Band	LTE B66
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	0.0	23.5	-1.5	1.0	22.0	24.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	23.5	-1.5	1.0	22.0	24.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0.0	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1	0.0	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0.0	21.5	-1.5	1.0	20.0	22.5	2

Antenna	Second antenna
LTE Band	LTE B66
EUT State	rev on

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	5.5	18.0	-1.5	1.0	16.5	19.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.5	18.0	-1.5	1.0	16.5	19.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	5.5	18.0	-1.5	1.0	16.5	19.0	1
16 QAM	1	1	1	1	1	1	5.5	18.0	-1.5	1.0	16.5	19.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.5	18.0	-1.5	1.0	16.5	19.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	5.5	18.0	-1.5	1.0	16.5	19.0	2

Antenna	Main antenna
LTE Band	LTE B66
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	1.0	22.5	-1.5	1.0	21.0	23.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1.0	22.5	-1.5	1.0	21.0	23.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1.0	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	1	1	1	1	1	1	1.0	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1.0	22.5	-1.5	1.0	21.0	23.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	1.0	21.5	-1.5	1.0	20.0	22.5	2

Antenna	Second antenna
LTE Band	LTE B66
EUT State	rev off

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	2.5	21.0	-1.5	1.0	19.5	22.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2.5	21.0	-1.5	1.0	19.5	22.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	2.5	21.0	-1.5	1.0	19.5	22.0	1
16 QAM	1	1	1	1	1	1	2.5	21.0	-1.5	1.0	19.5	22.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2.5	21.0	-1.5	1.0	19.5	22.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2.5	21.0	-1.5	1.0	19.5	22.0	2

Antenna	Main antenna
LTE Band	LTE B66
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	4.0	19.5	-1.5	1.0	18.0	20.5	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	4.0	19.5	-1.5	1.0	18.0	20.5	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	4.0	19.5	-1.5	1.0	18.0	20.5	1
16 QAM	1	1	1	1	1	1	4.0	19.5	-1.5	1.0	18.0	20.5	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	4.0	19.5	-1.5	1.0	18.0	20.5	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	4.0	19.5	-1.5	1.0	18.0	20.5	2

Antenna	Second antenna
LTE Band	LTE B66
EUT State	hotspot

Modulation	1.4MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP (dB)
							Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1	1	5.5	18.0	-1.5	1.0	16.5	19.0	0
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.5	18.0	-1.5	1.0	16.5	19.0	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	5.5	18.0	-1.5	1.0	16.5	19.0	1
16 QAM	1	1	1	1	1	1	5.5	18.0	-1.5	1.0	16.5	19.0	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5.5	18.0	-1.5	1.0	16.5	19.0	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	5.5	18.0	-1.5	1.0	16.5	19.0	2

Antenna	Main antenna
LTE Band	LTE B38
EUT State	rev on

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	0.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	> 8	> 12	> 16	> 18	0.0	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	1	1	1	1	0.0	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	> 8	> 12	> 16	> 18	0.0	21.0	-1.5	1.0	19.5	22.0	2

Antenna	Second antenna
LTE Band	LTE B38
EUT State	rev on

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	0.0	23.0	-1.5	1.0	21.5	24.0	0
QPSK	> 8	> 12	> 16	> 18	0.0	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	1	1	1	1	0.0	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	0.0	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	> 8	> 12	> 16	> 18	0.0	21.0	-1.5	1.0	19.5	22.0	2

Antenna	Main antenna
LTE Band	LTE B38
EUT State	rev off

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	0.5	22.5	-1.5	1.0	21.0	23.5	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	0.5	22.5	-1.5	1.0	21.0	23.5	0
QPSK	> 8	> 12	> 16	> 18	0.5	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	1	1	1	1	0.5	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	0.5	22.0	-1.5	1.0	20.5	23.0	1
16 QAM	> 8	> 12	> 16	> 18	0.5	21.0	-1.5	1.0	19.5	22.0	2

Antenna	Second antenna
LTE Band	LTE B38
EUT State	rev off

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	1.5	21.5	-1.5	1.0	20.0	22.5	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	1.5	21.5	-1.5	1.0	20.0	22.5	0
QPSK	> 8	> 12	> 16	> 18	1.5	21.5	-1.5	1.0	20.0	22.5	1
16 QAM	1	1	1	1	1.5	21.5	-1.5	1.0	20.0	22.5	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	1.5	21.5	-1.5	1.0	20.0	22.5	1
16 QAM	> 8	> 12	> 16	> 18	1.5	21.0	-1.5	1.0	19.5	22.0	2

Antenna	Main antenna
LTE Band	LTE B38
EUT State	hotspot

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	3.0	20.0	-1.5	1.0	18.5	21.0	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	3.0	20.0	-1.5	1.0	18.5	21.0	0
QPSK	> 8	> 12	> 16	> 18	3.0	20.0	-1.5	1.0	18.5	21.0	1
16 QAM	1	1	1	1	3.0	20.0	-1.5	1.0	18.5	21.0	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	3.0	20.0	-1.5	1.0	18.5	21.0	1
16 QAM	> 8	> 12	> 16	> 18	3.0	20.0	-1.5	1.0	18.5	21.0	2

Antenna	Second antenna
LTE Band	LTE B38
EUT State	hotspot

Modulation	5 MHz	10 MHz	15 MHz	20 MHz	TUNE-UP Information						MPR allowed by 3GPP
					Power Reduce (dB)	Target Power (dBm)	Tolerance (dB)		Min (dBm)	Max (dBm)	
QPSK	1	1	1	1	4.0	19.0	-1.5	1.0	17.5	20.0	0
QPSK	≤ 8	≤ 12	≤ 16	≤ 18	4.0	19.0	-1.5	1.0	17.5	20.0	0
QPSK	> 8	> 12	> 16	> 18	4.0	19.0	-1.5	1.0	17.5	20.0	1
16 QAM	1	1	1	1	4.0	19.0	-1.5	1.0	17.5	20.0	1
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	4.0	19.0	-1.5	1.0	17.5	20.0	1
16 QAM	> 8	> 12	> 16	> 18	4.0	19.0	-1.5	1.0	17.5	20.0	2

11.3.1 Main antenna

LTEB2(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.32	22.40
		1880 (18900)	23.30	22.56
		1850.7 (18607)	23.26	22.54
	1RB-Middle (3)	1909.3 (19193)	23.40	22.54
		1880 (18900)	23.43	22.56

		1850.7 (18607)	23.35	22.70
	1RB-Low (0)	1909.3 (19193)	23.27	22.45
		1880 (18900)	23.29	22.57
		1850.7 (18607)	23.26	22.60
	3RB-High (3)	1909.3 (19193)	23.39	22.27
		1880 (18900)	23.42	22.32
		1850.7 (18607)	23.38	22.35
	3RB-Middle (1)	1909.3 (19193)	23.41	22.36
		1880 (18900)	23.47	22.40
		1850.7 (18607)	23.43	22.40
	3RB-Low (0)	1909.3 (19193)	23.37	22.27
		1880 (18900)	23.42	22.36
		1850.7 (18607)	23.35	22.36
	6RB (0)	1909.3 (19193)	22.35	21.45
		1880 (18900)	22.40	21.50
		1850.7 (18607)	22.39	21.43

3MHz	1RB-High (14)	1908.5 (19185)	23.40	22.51
		1880 (18900)	23.38	22.63
		1851.5 (18615)	23.31	22.63
	1RB-Middle (7)	1908.5 (19185)	23.56	22.77

		1880 (18900)	23.49	22.73
		1851.5 (18615)	23.49	22.79
	1RB-Low (0)	1908.5 (19185)	23.43	22.58
		1880 (18900)	23.39	22.61
		1851.5 (18615)	23.35	22.61
	8RB-High (7)	1908.5 (19185)	22.38	21.37
		1880 (18900)	22.43	21.46
		1851.5 (18615)	22.33	21.41
	8RB-Middle (4)	1908.5 (19185)	22.47	21.44
		1880 (18900)	22.44	21.50
		1851.5 (18615)	22.39	21.46
	8RB-Low (0)	1908.5 (19185)	22.39	21.42
		1880 (18900)	22.42	21.49
		1851.5 (18615)	22.36	21.42
	15RB (0)	1908.5 (19185)	22.39	21.37
		1880 (18900)	22.43	21.42
		1851.5 (18615)	22.34	21.36

5MHz	1RB-High (24)	1907.5 (19175)	23.30	22.49
		1880 (18900)	23.25	22.45
		1852.5 (18625)	23.26	22.44

	1RB-Middle (12)	1907.5 (19175)	23.58	22.81
		1880 (18900)	23.47	22.73
		1852.5 (18625)	23.50	22.85
	1RB-Low (0)	1907.5 (19175)	23.30	22.55
		1880 (18900)	23.27	22.51
		1852.5 (18625)	23.25	22.46
	12RB-High (13)	1907.5 (19175)	22.37	21.34
		1880 (18900)	22.45	21.42
		1852.5 (18625)	22.35	21.33
	12RB-Middle (6)	1907.5 (19175)	22.46	21.43
		1880 (18900)	22.48	21.46
		1852.5 (18625)	22.38	21.40
	12RB-Low (0)	1907.5 (19175)	22.45	21.39
		1880 (18900)	22.44	21.41
		1852.5 (18625)	22.29	21.25
	25RB (0)	1907.5 (19175)	22.43	21.41
		1880 (18900)	22.48	21.45
		1852.5 (18625)	22.35	21.34

10MHz	1RB-High (49)	1905 (19150)	23.38	22.55
		1880 (18900)	23.36	22.67

		1855 (18650)	23.31	22.69
	1RB-Middle (24)	1905 (19150)	23.57	22.73
		1880 (18900)	23.51	22.67
		1855 (18650)	23.44	22.68
	1RB-Low (0)	1905 (19150)	23.41	22.58
		1880 (18900)	23.36	22.60
		1855 (18650)	23.35	22.65
	25RB-High (25)	1905 (19150)	22.49	21.42
		1880 (18900)	22.50	21.48
		1855 (18650)	22.40	21.40
	25RB-Middle (12)	1905 (19150)	22.53	21.45
		1880 (18900)	22.50	21.46
		1855 (18650)	22.41	21.40
	25RB-Low (0)	1905 (19150)	22.49	21.47
		1880 (18900)	22.49	21.45
		1855 (18650)	22.35	21.35
	50RB (0)	1905 (19150)	22.47	21.43
		1880 (18900)	22.47	21.45
		1855 (18650)	22.38	21.38

15MHz	1RB-High (74)	1902.5 (19125)	23.25	22.39

		1880 (18900)	23.36	22.52
		1857.5 (18675)	23.29	22.61
	1RB-Middle (37)	1902.5 (19125)	23.35	22.61
		1880 (18900)	23.40	22.70
		1857.5 (18675)	23.34	22.73
	1RB-Low (0)	1902.5 (19125)	23.33	22.58
		1880 (18900)	23.25	22.53
		1857.5 (18675)	23.31	22.65
	36RB-High (38)	1902.5 (19125)	22.40	21.33
		1880 (18900)	22.46	21.40
		1857.5 (18675)	22.38	21.39
	36RB-Middle (19)	1902.5 (19125)	22.47	21.41
		1880 (18900)	22.46	21.40
		1857.5 (18675)	22.39	21.38
	36RB-Low (0)	1902.5 (19125)	22.46	21.43
		1880 (18900)	22.46	21.40
		1857.5 (18675)	22.38	21.35
	75RB (0)	1902.5 (19125)	22.45	21.42
		1880 (18900)	22.49	21.47
		1857.5 (18675)	22.36	21.39

20MHz	1RB-High (99)	1900 (19100)	23.10	22.31
		1880 (18900)	23.16	22.39
		1860 (18700)	23.08	22.39
	1RB-Middle (50)	1900 (19100)	23.42	22.72
		1880 (18900)	23.46	22.67
		1860 (18700)	23.39	22.74
	1RB-Low (0)	1900 (19100)	23.22	22.48
		1880 (18900)	23.13	22.50
		1860 (18700)	23.14	22.41
	50RB-High (50)	1900 (19100)	22.30	21.32
		1880 (18900)	22.48	21.44
		1860 (18700)	22.44	21.42
	50RB-Middle (25)	1900 (19100)	22.46	21.47
		1880 (18900)	22.44	21.42
		1860 (18700)	22.39	21.41
	50RB-Low (0)	1900 (19100)	22.55	21.53
		1880 (18900)	22.33	21.31
		1860 (18700)	22.36	21.34
	100RB (0)	1900 (19100)	22.40	21.43
		1880 (18900)	22.40	21.39

		1860 (18700)	22.39	21.37

LTEB2 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	22.77	22.49
		1880 (18900)	22.81	22.57
		1850.7 (18607)	22.80	22.57
	1RB-Middle (3)	1909.3 (19193)	22.90	22.56
		1880 (18900)	22.93	22.64
		1850.7 (18607)	22.94	22.66
	1RB-Low (0)	1909.3 (19193)	22.76	22.53
		1880 (18900)	22.82	22.48
		1850.7 (18607)	22.81	22.59
	3RB-High (3)	1909.3 (19193)	22.88	22.28
		1880 (18900)	22.91	22.37
		1850.7 (18607)	22.90	22.37
	3RB-Middle (1)	1909.3 (19193)	22.93	22.32
		1880 (18900)	22.97	22.43
		1850.7 (18607)	22.98	22.36
	3RB-Low (0)	1909.3 (19193)	22.87	22.34
		1880 (18900)	22.91	22.30

		1850.7 (18607)	22.88	22.36
	6RB (0)	1909.3 (19193)	22.39	21.47
		1880 (18900)	22.41	21.48
		1850.7 (18607)	22.40	21.49

3MHz	1RB-High (14)	1908.5 (19185)	22.85	22.54
		1880 (18900)	22.88	22.62
		1851.5 (18615)	22.82	22.54
	1RB-Middle (7)	1908.5 (19185)	22.97	22.73
		1880 (18900)	23.01	22.83
		1851.5 (18615)	23.00	22.78
	1RB-Low (0)	1908.5 (19185)	22.85	22.59
		1880 (18900)	22.89	22.59
		1851.5 (18615)	22.84	22.70
	8RB-High (7)	1908.5 (19185)	22.38	21.40
		1880 (18900)	22.42	21.43
		1851.5 (18615)	22.37	21.45
	8RB-Middle (4)	1908.5 (19185)	22.40	21.47
		1880 (18900)	22.45	21.47
		1851.5 (18615)	22.37	21.48
	8RB-Low (0)	1908.5 (19185)	22.38	21.46

		1880 (18900)	22.40	21.48
		1851.5 (18615)	22.37	21.45
	15RB (0)	1908.5 (19185)	22.39	21.38
		1880 (18900)	22.40	21.41
		1851.5 (18615)	22.35	21.37

5MHz	1RB-High (24)	1907.5 (19175)	22.73	22.40
		1880 (18900)	22.77	22.47
		1852.5 (18625)	22.72	22.45
	1RB-Middle (12)	1907.5 (19175)	23.06	22.81
		1880 (18900)	23.04	22.79
		1852.5 (18625)	23.04	22.83
	1RB-Low (0)	1907.5 (19175)	22.76	22.50
		1880 (18900)	22.78	22.54
		1852.5 (18625)	22.77	22.48
	12RB-High (13)	1907.5 (19175)	22.34	21.31
		1880 (18900)	22.41	21.33
		1852.5 (18625)	22.37	21.39
	12RB-Middle (6)	1907.5 (19175)	22.42	21.40
		1880 (18900)	22.48	21.43
		1852.5 (18625)	22.41	21.39

	12RB-Low (0)	1907.5 (19175)	22.42	21.40
		1880 (18900)	22.39	21.41
		1852.5 (18625)	22.31	21.31
	25RB (0)	1907.5 (19175)	22.41	21.40
		1880 (18900)	22.43	21.44
		1852.5 (18625)	22.35	21.37

10MHz	1RB-High (49)	1905 (19150)	22.80	22.60
		1880 (18900)	22.83	22.65
		1855 (18650)	22.82	22.54
	1RB-Middle (24)	1905 (19150)	22.99	22.77
		1880 (18900)	22.97	22.63
		1855 (18650)	22.95	22.71
	1RB-Low (0)	1905 (19150)	22.84	22.67
		1880 (18900)	22.87	22.67
		1855 (18650)	22.86	22.67
	25RB-High (25)	1905 (19150)	22.40	21.42
		1880 (18900)	22.47	21.44
		1855 (18650)	22.40	21.42
	25RB-Middle (12)	1905 (19150)	22.46	21.44
		1880 (18900)	22.46	21.45

		1855 (18650)	22.42	21.43
	25RB-Low (0)	1905 (19150)	22.48	21.45
		1880 (18900)	22.44	21.43
		1855 (18650)	22.38	21.39
	50RB (0)	1905 (19150)	22.44	21.43
		1880 (18900)	22.44	21.44
		1855 (18650)	22.40	21.40

15MHz	1RB-High (74)	1902.5 (19125)	22.75	22.50
		1880 (18900)	22.80	22.58
		1857.5 (18675)	22.75	22.61
	1RB-Middle (37)	1902.5 (19125)	22.85	22.64
		1880 (18900)	22.91	22.68
		1857.5 (18675)	22.86	22.63
	1RB-Low (0)	1902.5 (19125)	22.83	22.63
		1880 (18900)	22.78	22.51
		1857.5 (18675)	22.80	22.56
	36RB-High (38)	1902.5 (19125)	22.38	21.38
		1880 (18900)	22.45	21.39
		1857.5 (18675)	22.38	21.34
	36RB-Middle (19)	1902.5 (19125)	22.44	21.40

		1880 (18900)	22.42	21.39
		1857.5 (18675)	22.40	21.39
	36RB-Low (0)	1902.5 (19125)	22.47	21.42
		1880 (18900)	22.43	21.36
		1857.5 (18675)	22.37	21.34
	75RB (0)	1902.5 (19125)	22.41	21.42
		1880 (18900)	22.43	21.41
		1857.5 (18675)	22.38	21.38

20MHz	1RB-High (99)	1900 (19100)	22.64	22.37
		1880 (18900)	22.67	22.50
		1860 (18700)	22.61	22.40
	1RB-Middle (50)	1900 (19100)	22.95	22.75
		1880 (18900)	22.98	22.74
		1860 (18700)	22.90	22.67
	1RB-Low (0)	1900 (19100)	22.75	22.58
		1880 (18900)	22.64	22.38
		1860 (18700)	22.65	22.36
	50RB-High (50)	1900 (19100)	22.36	21.37
		1880 (18900)	22.46	21.46
		1860 (18700)	22.44	21.46

	50RB-Middle (25)	1900 (19100)	22.48	21.47
		1880 (18900)	22.46	21.46
		1860 (18700)	22.42	21.43
	50RB-Low (0)	1900 (19100)	22.54	21.54
		1880 (18900)	22.33	21.32
		1860 (18700)	22.37	21.38
	100RB (0)	1900 (19100)	22.47	21.44
		1880 (18900)	22.42	21.38
		1860 (18700)	22.38	21.38

LTEB2 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	18.87	19.24
		1880 (18900)	18.88	19.22
		1850.7 (18607)	18.86	19.22
	1RB-Middle (3)	1909.3 (19193)	18.97	19.36
		1880 (18900)	19.00	19.38
		1850.7 (18607)	18.94	19.29
	1RB-Low (0)	1909.3 (19193)	18.84	19.08
		1880 (18900)	18.82	19.30
		1850.7 (18607)	18.83	19.12

	3RB-High (3)	1909.3 (19193)	18.98	19.01
		1880 (18900)	18.97	18.95
		1850.7 (18607)	18.96	18.93
	3RB-Middle (1)	1909.3 (19193)	19.02	18.99
		1880 (18900)	19.00	18.97
		1850.7 (18607)	18.97	18.98
	3RB-Low (0)	1909.3 (19193)	18.95	18.97
		1880 (18900)	18.96	18.98
		1850.7 (18607)	18.96	18.98
	6RB (0)	1909.3 (19193)	18.93	19.06
		1880 (18900)	18.95	19.10
		1850.7 (18607)	18.96	19.10

3MHz	1RB-High (14)	1908.5 (19185)	18.94	19.22
		1880 (18900)	18.92	19.19
		1851.5 (18615)	18.89	19.16
	1RB-Middle (7)	1908.5 (19185)	19.08	19.33
		1880 (18900)	19.14	19.55
		1851.5 (18615)	19.06	19.40
	1RB-Low (0)	1908.5 (19185)	18.92	19.22
		1880 (18900)	18.92	19.29

		1851.5 (18615)	18.92	19.34
	8RB-High (7)	1908.5 (19185)	18.95	19.04
		1880 (18900)	18.97	19.06
		1851.5 (18615)	18.92	19.02
	8RB-Middle (4)	1908.5 (19185)	18.98	19.05
		1880 (18900)	19.01	19.09
		1851.5 (18615)	18.95	19.07
	8RB-Low (0)	1908.5 (19185)	18.95	19.06
		1880 (18900)	18.96	19.07
		1851.5 (18615)	18.93	19.03
	15RB (0)	1908.5 (19185)	18.94	18.97
		1880 (18900)	18.96	19.00
		1851.5 (18615)	18.92	18.95

5MHz	1RB-High (24)	1907.5 (19175)	18.82	19.07
		1880 (18900)	18.83	19.17
		1852.5 (18625)	18.81	19.15
	1RB-Middle (12)	1907.5 (19175)	19.10	19.30
		1880 (18900)	19.08	19.33
		1852.5 (18625)	19.09	19.40
	1RB-Low (0)	1907.5 (19175)	18.83	19.21

		1880 (18900)	18.86	19.24
		1852.5 (18625)	18.85	19.13
	12RB-High (13)	1907.5 (19175)	18.92	18.93
		1880 (18900)	18.96	18.98
		1852.5 (18625)	18.95	19.00
	12RB-Middle (6)	1907.5 (19175)	19.00	19.01
		1880 (18900)	19.03	19.05
		1852.5 (18625)	18.96	19.00
	12RB-Low (0)	1907.5 (19175)	19.02	19.02
		1880 (18900)	18.99	19.00
		1852.5 (18625)	18.93	18.97
	25RB (0)	1907.5 (19175)	18.96	18.99
		1880 (18900)	18.98	19.02
		1852.5 (18625)	18.96	19.01

10MHz	1RB-High (49)	1905 (19150)	18.90	19.22
		1880 (18900)	18.88	19.17
		1855 (18650)	18.87	19.26
	1RB-Middle (24)	1905 (19150)	19.07	19.41
		1880 (18900)	19.08	19.46
		1855 (18650)	19.00	19.41

	1RB-Low (0)	1905 (19150)	18.91	19.29
		1880 (18900)	18.91	19.28
		1855 (18650)	18.90	19.24
	25RB-High (25)	1905 (19150)	18.87	18.90
		1880 (18900)	18.98	18.99
		1855 (18650)	18.89	19.01
	25RB-Middle (12)	1905 (19150)	19.00	19.04
		1880 (18900)	18.98	19.02
		1855 (18650)	18.96	19.00
	25RB-Low (0)	1905 (19150)	18.98	19.02
		1880 (18900)	18.94	18.98
		1855 (18650)	18.89	18.98
	50RB (0)	1905 (19150)	18.91	18.97
		1880 (18900)	18.95	18.95
		1855 (18650)	18.88	19.01

15MHz	1RB-High (74)	1902.5 (19125)	18.84	19.13
		1880 (18900)	18.87	19.13
		1857.5 (18675)	18.82	19.23
	1RB-Middle (37)	1902.5 (19125)	18.95	19.32
		1880 (18900)	18.94	19.23

		1857.5 (18675)	18.89	19.28
	1RB-Low (0)	1902.5 (19125)	18.89	19.30
		1880 (18900)	18.82	19.23
		1857.5 (18675)	18.85	19.19
	36RB-High (38)	1902.5 (19125)	18.90	18.89
		1880 (18900)	18.97	18.97
		1857.5 (18675)	18.92	18.98
	36RB-Middle (19)	1902.5 (19125)	18.99	19.00
		1880 (18900)	18.97	18.96
		1857.5 (18675)	18.95	18.98
	36RB-Low (0)	1902.5 (19125)	19.00	18.99
		1880 (18900)	18.93	18.94
		1857.5 (18675)	18.92	18.95
	75RB (0)	1902.5 (19125)	18.94	18.98
		1880 (18900)	18.97	18.97
		1857.5 (18675)	18.91	18.98

20MHz	1RB-High (99)	1900 (19100)	18.59	19.32
		1880 (18900)	18.76	19.27
		1860 (18700)	18.58	19.19
	1RB-Middle (50)	1900 (19100)	19.02	19.67

		1880 (18900)	19.09	19.60
		1860 (18700)	18.90	19.56
	1RB-Low (0)	1900 (19100)	18.72	19.20
		1880 (18900)	18.65	19.21
		1860 (18700)	18.60	19.15
	50RB-High (50)	1900 (19100)	18.90	18.91
		1880 (18900)	18.98	19.02
		1860 (18700)	18.90	18.99
	50RB-Middle (25)	1900 (19100)	19.01	19.00
		1880 (18900)	18.92	18.99
		1860 (18700)	18.86	18.95
	50RB-Low (0)	1900 (19100)	19.12	19.12
		1880 (18900)	18.82	18.88
		1860 (18700)	18.84	18.91
	100RB (0)	1900 (19100)	19.01	19.04
		1880 (18900)	18.92	18.98
		1860 (18700)	18.87	18.95

LTEB4(receiver on/off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1754.3 (20393)	23.24	22.47

		1732.5 (20175)	23.24	22.43
		1710.7 (19957)	23.27	22.45
	1RB-Middle (3)	1754.3 (20393)	23.37	22.67
		1732.5 (20175)	23.37	22.61
		1710.7 (19957)	23.37	22.52
	1RB-Low (0)	1754.3 (20393)	23.20	22.39
		1732.5 (20175)	23.22	22.48
		1710.7 (19957)	23.27	22.59
	3RB-High (3)	1754.3 (20393)	23.35	22.35
		1732.5 (20175)	23.32	22.24
		1710.7 (19957)	23.42	22.26
	3RB-Middle (1)	1754.3 (20393)	23.39	22.31
		1732.5 (20175)	23.39	22.30
		1710.7 (19957)	23.42	22.45
	3RB-Low (0)	1754.3 (20393)	23.33	22.30
		1732.5 (20175)	23.33	22.27
		1710.7 (19957)	23.41	22.32
	6RB (0)	1754.3 (20393)	22.34	21.47
		1732.5 (20175)	22.31	21.42
		1710.7 (19957)	22.38	21.49

3MHz	1RB-High (14)	1753.5 (20385)	23.24	22.47
		1732.5 (20175)	23.26	22.50
		1711.5 (19965)	23.28	22.53
	1RB-Middle (7)	1753.5 (20385)	23.38	22.59
		1732.5 (20175)	23.40	22.69
		1711.5 (19965)	23.45	22.56
	1RB-Low (0)	1753.5 (20385)	23.24	22.48
		1732.5 (20175)	23.29	22.57
		1711.5 (19965)	23.31	22.46
	8RB-High (7)	1753.5 (20385)	22.25	21.32
		1732.5 (20175)	22.29	21.35
		1711.5 (19965)	22.33	21.37
	8RB-Middle (4)	1753.5 (20385)	22.27	21.32
		1732.5 (20175)	22.32	21.40
		1711.5 (19965)	22.37	21.38
	8RB-Low (0)	1753.5 (20385)	22.27	21.33
		1732.5 (20175)	22.30	21.36
		1711.5 (19965)	22.31	21.37
	15RB (0)	1753.5 (20385)	22.26	21.25
		1732.5 (20175)	22.29	21.29

		1711.5 (19965)	22.32	21.30

5MHz	1RB-High (24)	1752.5 (20375)	23.16	22.46
		1732.5 (20175)	23.19	22.39
		1712.5 (19975)	23.24	22.40
	1RB-Middle (12)	1752.5 (20375)	23.32	22.57
		1732.5 (20175)	23.44	22.65
		1712.5 (19975)	23.42	22.64
	1RB-Low (0)	1752.5 (20375)	23.17	22.39
		1732.5 (20175)	23.22	22.47
		1712.5 (19975)	23.22	22.47
	12RB-High (13)	1752.5 (20375)	22.24	21.21
		1732.5 (20175)	22.33	21.27
		1712.5 (19975)	22.33	21.30
	12RB-Middle (6)	1752.5 (20375)	22.30	21.28
		1732.5 (20175)	22.36	21.30
		1712.5 (19975)	22.37	21.34
	12RB-Low (0)	1752.5 (20375)	22.28	21.25
		1732.5 (20175)	22.28	21.24
		1712.5 (19975)	22.30	21.27
	25RB (0)	1752.5 (20375)	22.27	21.27

		1732.5 (20175)	22.30	21.30
		1712.5 (19975)	22.34	21.33

10MHz	1RB-High (49)	1750 (20350)	23.27	22.53
		1732.5 (20175)	23.26	22.56
		1715 (20000)	23.33	22.59
	1RB-Middle (24)	1750 (20350)	23.34	22.50
		1732.5 (20175)	23.39	22.68
		1715 (20000)	23.45	22.73
	1RB-Low (0)	1750 (20350)	23.27	22.43
		1732.5 (20175)	23.34	22.62
		1715 (20000)	23.33	22.60
	25RB-High (25)	1750 (20350)	22.31	21.29
		1732.5 (20175)	22.39	21.41
		1715 (20000)	22.42	21.42
	25RB-Middle (12)	1750 (20350)	22.32	21.32
		1732.5 (20175)	22.38	21.41
		1715 (20000)	22.39	21.40
	25RB-Low (0)	1750 (20350)	22.37	21.37
		1732.5 (20175)	22.35	21.40
		1715 (20000)	22.36	21.38

	50RB (0)	1750 (20350)	22.34	21.31
		1732.5 (20175)	22.40	21.41
		1715 (20000)	22.39	21.38

15MHz	1RB-High (74)	1747.5 (20325)	23.15	22.45
		1732.5 (20175)	23.16	22.47
		1717.5 (20025)	23.24	22.47
	1RB-Middle (37)	1747.5 (20325)	23.27	22.39
		1732.5 (20175)	23.32	22.65
		1717.5 (20025)	23.35	22.67
	1RB-Low (0)	1747.5 (20325)	23.21	22.49
		1732.5 (20175)	23.26	22.49
		1717.5 (20025)	23.26	22.48
	36RB-High (38)	1747.5 (20325)	22.25	21.21
		1732.5 (20175)	22.38	21.34
		1717.5 (20025)	22.40	21.34
	36RB-Middle (19)	1747.5 (20325)	22.34	21.29
		1732.5 (20175)	22.38	21.36
		1717.5 (20025)	22.43	21.40
	36RB-Low (0)	1747.5 (20325)	22.37	21.33
		1732.5 (20175)	22.37	21.32

		1717.5 (20025)	22.36	21.33
	75RB (0)	1747.5 (20325)	22.33	21.29
		1732.5 (20175)	22.37	21.35
		1717.5 (20025)	22.38	21.38

20MHz	1RB-High (99)	1745 (20300)	23.07	22.20
		1732.5 (20175)	23.08	22.32
		1720 (20050)	23.05	22.36
	1RB-Middle (50)	1745 (20300)	23.42	22.56
		1732.5 (20175)	23.46	22.65
		1720 (20050)	23.44	22.66
	1RB-Low (0)	1745 (20300)	23.07	22.27
		1732.5 (20175)	23.09	22.40
		1720 (20050)	23.05	22.36
	50RB-High (50)	1745 (20300)	22.25	21.24
		1732.5 (20175)	22.34	21.35
		1720 (20050)	22.39	21.37
	50RB-Middle (25)	1745 (20300)	22.41	21.39
		1732.5 (20175)	22.39	21.36
		1720 (20050)	22.39	21.40
	50RB-Low (0)	1745 (20300)	22.35	21.33

		1732.5 (20175)	22.29	21.30
		1720 (20050)	22.29	21.28
	100RB (0)	1745 (20300)	22.33	21.30
		1732.5 (20175)	22.34	21.32
		1720 (20050)	22.34	21.33

LTEB4 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1754.3 (20393)	20.20	20.56
		1732.5 (20175)	20.24	20.63
		1710.7 (19957)	20.25	20.64
	1RB-Middle (3)	1754.3 (20393)	20.31	20.63
		1732.5 (20175)	20.33	20.63
		1710.7 (19957)	20.36	20.75
	1RB-Low (0)	1754.3 (20393)	20.18	20.51
		1732.5 (20175)	20.25	20.55
		1710.7 (19957)	20.27	20.64
	3RB-High (3)	1754.3 (20393)	20.27	20.29
		1732.5 (20175)	20.33	20.35
		1710.7 (19957)	20.34	20.29
	3RB-Middle (1)	1754.3 (20393)	20.32	20.35

		1732.5 (20175)	20.37	20.39
		1710.7 (19957)	20.38	20.39
	3RB-Low (0)	1754.3 (20393)	20.27	20.35
		1732.5 (20175)	20.34	20.39
		1710.7 (19957)	20.35	20.38
	6RB (0)	1754.3 (20393)	20.30	20.40
		1732.5 (20175)	20.34	20.44
		1710.7 (19957)	20.33	20.46

3MHz	1RB-High (14)	1753.5 (20385)	20.29	20.63
		1732.5 (20175)	20.30	20.55
		1711.5 (19965)	20.33	20.68
	1RB-Middle (7)	1753.5 (20385)	20.42	20.67
		1732.5 (20175)	20.41	20.81
		1711.5 (19965)	20.41	20.76
	1RB-Low (0)	1753.5 (20385)	20.26	20.55
		1732.5 (20175)	20.31	20.74
		1711.5 (19965)	20.34	20.69
	8RB-High (7)	1753.5 (20385)	20.29	20.38
		1732.5 (20175)	20.33	20.42
		1711.5 (19965)	20.35	20.43

	8RB-Middle (4)	1753.5 (20385)	20.31	20.41
		1732.5 (20175)	20.36	20.42
		1711.5 (19965)	20.38	20.48
	8RB-Low (0)	1753.5 (20385)	20.29	20.38
		1732.5 (20175)	20.32	20.40
		1711.5 (19965)	20.33	20.44
	15RB (0)	1753.5 (20385)	20.29	20.33
		1732.5 (20175)	20.33	20.33
		1711.5 (19965)	20.37	20.37

5MHz	1RB-High (24)	1752.5 (20375)	20.19	20.51
		1732.5 (20175)	20.21	20.49
		1712.5 (19975)	20.23	20.62
	1RB-Middle (12)	1752.5 (20375)	20.42	20.77
		1732.5 (20175)	20.42	20.76
		1712.5 (19975)	20.48	20.81
	1RB-Low (0)	1752.5 (20375)	20.17	20.60
		1732.5 (20175)	20.22	20.53
		1712.5 (19975)	20.24	20.64
	12RB-High (13)	1752.5 (20375)	20.26	20.31
		1732.5 (20175)	20.35	20.36

		1712.5 (19975)	20.36	20.39
	12RB-Middle (6)	1752.5 (20375)	20.35	20.34
		1732.5 (20175)	20.38	20.41
		1712.5 (19975)	20.39	20.42
	12RB-Low (0)	1752.5 (20375)	20.32	20.33
		1732.5 (20175)	20.32	20.34
		1712.5 (19975)	20.32	20.35
	25RB (0)	1752.5 (20375)	20.33	20.33
		1732.5 (20175)	20.33	20.38
		1712.5 (19975)	20.36	20.37

10MHz	1RB-High (49)	1750 (20350)	20.29	20.64
		1732.5 (20175)	20.29	20.61
		1715 (20000)	20.35	20.66
	1RB-Middle (24)	1750 (20350)	20.38	20.63
		1732.5 (20175)	20.44	20.80
		1715 (20000)	20.44	20.86
	1RB-Low (0)	1750 (20350)	20.32	20.60
		1732.5 (20175)	20.35	20.68
		1715 (20000)	20.36	20.70
	25RB-High (25)	1750 (20350)	20.33	20.37

		1732.5 (20175)	20.44	20.48
		1715 (20000)	20.48	20.48
	25RB-Middle (12)	1750 (20350)	20.31	20.36
		1732.5 (20175)	20.40	20.40
		1715 (20000)	20.42	20.44
	25RB-Low (0)	1750 (20350)	20.39	20.41
		1732.5 (20175)	20.39	20.42
		1715 (20000)	20.38	20.39
	50RB (0)	1750 (20350)	20.35	20.37
		1732.5 (20175)	20.42	20.45
		1715 (20000)	20.40	20.43

15MHz	1RB-High (74)	1747.5 (20325)	20.18	20.48
		1732.5 (20175)	20.20	20.49
		1717.5 (20025)	20.26	20.67
	1RB-Middle (37)	1747.5 (20325)	20.29	20.65
		1732.5 (20175)	20.34	20.71
		1717.5 (20025)	20.37	20.76
	1RB-Low (0)	1747.5 (20325)	20.25	20.46
		1732.5 (20175)	20.27	20.71
		1717.5 (20025)	20.27	20.61

	36RB-High (38)	1747.5 (20325)	20.30	20.28
		1732.5 (20175)	20.43	20.39
		1717.5 (20025)	20.42	20.40
	36RB-Middle (19)	1747.5 (20325)	20.34	20.34
		1732.5 (20175)	20.42	20.40
		1717.5 (20025)	20.44	20.42
	36RB-Low (0)	1747.5 (20325)	20.41	20.38
		1732.5 (20175)	20.40	20.37
		1717.5 (20025)	20.40	20.34
	75RB (0)	1747.5 (20325)	20.34	20.39
		1732.5 (20175)	20.40	20.43
		1717.5 (20025)	20.41	20.42

20MHz	1RB-High (99)	1745 (20300)	19.93	20.50
		1732.5 (20175)	19.96	20.41
		1720 (20050)	20.00	20.52
	1RB-Middle (50)	1745 (20300)	20.42	20.86
		1732.5 (20175)	20.38	20.86
		1720 (20050)	20.46	20.96
	1RB-Low (0)	1745 (20300)	20.03	20.60
		1732.5 (20175)	20.07	20.52

		1720 (20050)	20.05	20.58
	50RB-High (50)	1745 (20300)	20.12	20.15
		1732.5 (20175)	20.37	20.36
		1720 (20050)	20.29	20.38
	50RB-Middle (25)	1745 (20300)	20.27	20.33
		1732.5 (20175)	20.34	20.35
		1720 (20050)	20.35	20.38
	50RB-Low (0)	1745 (20300)	20.27	20.30
		1732.5 (20175)	20.28	20.31
		1720 (20050)	20.25	20.30
	100RB (0)	1745 (20300)	20.22	20.26
		1732.5 (20175)	20.34	20.33
		1720 (20050)	20.30	20.33

LTEB7(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2567.5 (21425)	23.03	22.27
		2535 (21100)	23.07	22.34
		2502.5 (20775)	22.99	22.31
	1RB-Middle (12)	2567.5 (21425)	23.30	22.53
		2535 (21100)	23.30	22.54

		2502.5 (20775)	23.22	22.46
	1RB-Low (0)	2567.5 (21425)	23.04	22.30
		2535 (21100)	23.13	22.38
		2502.5 (20775)	22.91	22.30
	12RB-High (13)	2567.5 (21425)	22.15	21.18
		2535 (21100)	22.26	21.26
		2502.5 (20775)	22.12	21.12
	12RB-Middle (6)	2567.5 (21425)	22.22	21.25
		2535 (21100)	22.29	21.28
		2502.5 (20775)	22.17	21.10
	12RB-Low (0)	2567.5 (21425)	22.20	21.20
		2535 (21100)	22.26	21.24
		2502.5 (20775)	22.07	21.05
	25RB (0)	2567.5 (21425)	22.23	21.22
		2535 (21100)	22.31	21.28
		2502.5 (20775)	22.12	21.14

10MHz	1RB-High (49)	2565 (21400)	23.08	22.23
		2535 (21100)	23.16	22.49
		2505 (20800)	23.08	22.45
	1RB-Middle (24)	2565 (21400)	23.20	22.35

		2535 (21100)	23.28	22.55
		2505 (20800)	23.18	22.52
	1RB-Low (0)	2565 (21400)	23.21	22.33
		2535 (21100)	23.22	22.40
		2505 (20800)	23.00	22.24
	25RB-High (25)	2565 (21400)	22.24	21.25
		2535 (21100)	22.34	21.33
		2505 (20800)	22.25	21.26
	25RB-Middle (12)	2565 (21400)	22.28	21.26
		2535 (21100)	22.31	21.30
		2505 (20800)	22.19	21.18
	25RB-Low (0)	2565 (21400)	22.25	21.24
		2535 (21100)	22.33	21.31
		2505 (20800)	22.16	21.12
	50RB (0)	2565 (21400)	22.28	21.29
		2535 (21100)	22.38	21.33
		2505 (20800)	22.19	21.18

15MHz	1RB-High (74)	2562.5 (21375)	23.00	22.21
		2535 (21100)	23.08	22.33
		2507.5 (20825)	23.10	22.43

	1RB-Middle (37)	2562.5 (21375)	23.16	22.36
		2535 (21100)	23.23	22.46
		2507.5 (20825)	23.10	22.40
	1RB-Low (0)	2562.5 (21375)	23.08	22.36
		2535 (21100)	23.16	22.40
		2507.5 (20825)	22.98	22.23
	36RB-High (38)	2562.5 (21375)	22.24	21.21
		2535 (21100)	22.31	21.26
		2507.5 (20825)	22.22	21.20
	36RB-Middle (19)	2562.5 (21375)	22.27	21.21
		2535 (21100)	22.33	21.31
		2507.5 (20825)	22.20	21.15
	36RB-Low (0)	2562.5 (21375)	22.27	21.22
		2535 (21100)	22.30	21.28
		2507.5 (20825)	22.13	21.10
	75RB (0)	2562.5 (21375)	22.28	21.22
		2535 (21100)	22.32	21.27
		2507.5 (20825)	22.18	21.17

20MHz	1RB-High (99)	2560 (21350)	22.75	22.03
		2535 (21100)	22.69	21.89

		2510 (20850)	22.65	21.96
	1RB-Middle (50)	2560 (21350)	23.13	22.35
		2535 (21100)	22.98	22.27
		2510 (20850)	23.03	22.21
	1RB-Low (0)	2560 (21350)	22.84	22.15
		2535 (21100)	22.71	21.97
		2510 (20850)	22.79	21.99
	50RB-High (50)	2560 (21350)	22.12	21.15
		2535 (21100)	21.97	21.00
		2510 (20850)	22.05	21.08
	50RB-Middle (25)	2560 (21350)	22.17	21.18
		2535 (21100)	22.06	21.06
		2510 (20850)	22.05	21.06
	50RB-Low (0)	2560 (21350)	22.08	21.13
		2535 (21100)	21.98	20.99
		2510 (20850)	21.94	20.98
	100RB (0)	2560 (21350)	22.11	21.11
		2535 (21100)	21.98	20.99
		2510 (20850)	21.97	20.99

LTEB7 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2567.5 (21425)	20.87	21.04
		2535 (21100)	20.93	21.17
		2502.5 (20775)	20.92	21.22
	1RB-Middle (12)	2567.5 (21425)	21.10	21.27
		2535 (21100)	21.20	21.45
		2502.5 (20775)	21.11	21.49
	1RB-Low (0)	2567.5 (21425)	20.89	21.04
		2535 (21100)	20.96	21.29
		2502.5 (20775)	20.91	21.20
	12RB-High (13)	2567.5 (21425)	21.02	20.91
		2535 (21100)	21.04	21.03
		2502.5 (20775)	21.05	20.99
	12RB-Middle (6)	2567.5 (21425)	21.02	21.00
		2535 (21100)	21.09	21.11
		2502.5 (20775)	21.11	21.02
	12RB-Low (0)	2567.5 (21425)	20.98	20.96
		2535 (21100)	21.05	21.03
		2502.5 (20775)	21.02	20.97
	25RB (0)	2567.5 (21425)	21.02	21.00

		2535 (21100)	21.08	21.08
		2502.5 (20775)	21.03	21.02

10MHz	1RB-High (49)	2565 (21400)	20.96	21.08
		2535 (21100)	21.00	21.25
		2505 (20800)	21.04	21.40
	1RB-Middle (24)	2565 (21400)	21.12	21.37
		2535 (21100)	21.12	21.54
		2505 (20800)	21.15	21.34
	1RB-Low (0)	2565 (21400)	20.99	21.22
		2535 (21100)	21.09	21.34
		2505 (20800)	20.98	21.22
	25RB-High (25)	2565 (21400)	21.11	21.02
		2535 (21100)	21.13	21.12
		2505 (20800)	21.14	21.13
	25RB-Middle (12)	2565 (21400)	21.09	21.00
		2535 (21100)	21.11	21.15
		2505 (20800)	21.08	21.08
	25RB-Low (0)	2565 (21400)	21.09	21.06
		2535 (21100)	21.15	21.16
		2505 (20800)	21.07	21.08

	50RB (0)	2565 (21400)	21.05	21.03
		2535 (21100)	21.15	21.17
		2505 (20800)	21.09	21.06

15MHz	1RB-High (74)	2562.5 (21375)	20.87	21.11
		2535 (21100)	20.93	21.15
		2507.5 (20825)	20.96	21.32
	1RB-Middle (37)	2562.5 (21375)	21.00	21.21
		2535 (21100)	21.06	21.38
		2507.5 (20825)	21.01	21.38
	1RB-Low (0)	2562.5 (21375)	20.95	21.16
		2535 (21100)	21.07	21.30
		2507.5 (20825)	20.96	21.24
	36RB-High (38)	2562.5 (21375)	21.04	21.02
		2535 (21100)	21.10	21.07
		2507.5 (20825)	21.12	21.09
	36RB-Middle (19)	2562.5 (21375)	21.04	21.03
		2535 (21100)	21.15	21.13
		2507.5 (20825)	21.12	21.09
	36RB-Low (0)	2562.5 (21375)	21.05	21.00
		2535 (21100)	21.17	21.13

		2507.5 (20825)	21.10	21.06
	75RB (0)	2562.5 (21375)	21.05	21.03
		2535 (21100)	21.11	21.10
		2507.5 (20825)	21.10	21.08

20MHz	1RB-High (99)	2560 (21350)	20.72	21.07
		2535 (21100)	20.80	21.06
		2510 (20850)	20.78	21.09
	1RB-Middle (50)	2560 (21350)	21.34	21.36
		2535 (21100)	21.17	21.35
		2510 (20850)	21.04	21.37
	1RB-Low (0)	2560 (21350)	20.92	21.15
		2535 (21100)	20.87	21.20
		2510 (20850)	20.69	21.00
	50RB-High (50)	2560 (21350)	21.09	21.07
		2535 (21100)	21.07	21.11
		2510 (20850)	21.08	21.08
	50RB-Middle (25)	2560 (21350)	21.24	21.13
		2535 (21100)	21.18	21.20
		2510 (20850)	21.05	21.04
	50RB-Low (0)	2560 (21350)	21.09	21.09

		2535 (21100)	21.09	21.11
		2510 (20850)	20.85	20.91
	100RB (0)	2560 (21350)	21.10	21.09
		2535 (21100)	21.11	21.11
		2510 (20850)	20.97	20.96

LTEB7 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2567.5 (21425)	17.89	18.27
		2535 (21100)	17.99	18.32
		2502.5 (20775)	18.00	18.34
	1RB-Middle (12)	2567.5 (21425)	18.19	18.41
		2535 (21100)	18.24	18.48
		2502.5 (20775)	18.19	18.56
	1RB-Low (0)	2567.5 (21425)	17.91	18.19
		2535 (21100)	18.05	18.35
		2502.5 (20775)	17.96	18.33
	12RB-High (13)	2567.5 (21425)	17.99	17.99
		2535 (21100)	18.10	18.12
		2502.5 (20775)	18.08	18.10
	12RB-Middle (6)	2567.5 (21425)	18.07	18.08

		2535 (21100)	18.16	18.17
		2502.5 (20775)	18.14	18.16
	12RB-Low (0)	2567.5 (21425)	18.05	18.06
		2535 (21100)	18.14	18.13
		2502.5 (20775)	18.06	18.09
	25RB (0)	2567.5 (21425)	18.04	18.04
		2535 (21100)	18.11	18.16
		2502.5 (20775)	18.11	18.14

10MHz	1RB-High (49)	2565 (21400)	18.02	18.28
		2535 (21100)	18.05	18.45
		2505 (20800)	18.06	18.35
	1RB-Middle (24)	2565 (21400)	18.14	18.44
		2535 (21100)	18.21	18.46
		2505 (20800)	18.16	18.59
	1RB-Low (0)	2565 (21400)	18.04	18.35
		2535 (21100)	18.16	18.49
		2505 (20800)	18.03	18.30
	25RB-High (25)	2565 (21400)	18.05	18.05
		2535 (21100)	18.09	18.11
		2505 (20800)	18.13	18.17

	25RB-Middle (12)	2565 (21400)	18.09	18.10
		2535 (21100)	18.17	18.17
		2505 (20800)	18.15	18.12
	25RB-Low (0)	2565 (21400)	18.04	18.06
		2535 (21100)	18.17	18.17
		2505 (20800)	18.07	18.15
	50RB (0)	2565 (21400)	18.03	18.05
		2535 (21100)	18.14	18.17
		2505 (20800)	18.09	18.17

15MHz	1RB-High (74)	2562.5 (21375)	17.95	18.13
		2535 (21100)	18.00	18.38
		2507.5 (20825)	18.04	18.36
	1RB-Middle (37)	2562.5 (21375)	18.06	18.32
		2535 (21100)	18.13	18.38
		2507.5 (20825)	18.11	18.39
	1RB-Low (0)	2562.5 (21375)	18.03	18.40
		2535 (21100)	18.12	18.51
		2507.5 (20825)	18.02	18.39
	36RB-High (38)	2562.5 (21375)	18.11	18.07
		2535 (21100)	18.16	18.14

		2507.5 (20825)	18.18	18.18
	36RB-Middle (19)	2562.5 (21375)	18.13	18.10
		2535 (21100)	18.23	18.22
		2507.5 (20825)	18.18	18.13
	36RB-Low (0)	2562.5 (21375)	18.09	18.06
		2535 (21100)	18.23	18.20
		2507.5 (20825)	18.12	18.11
	75RB (0)	2562.5 (21375)	18.11	18.09
		2535 (21100)	18.14	18.14
		2507.5 (20825)	18.12	18.13

20MHz	1RB-High (99)	2560 (21350)	17.82	18.34
		2535 (21100)	17.79	18.32
		2510 (20850)	17.75	18.24
	1RB-Middle (50)	2560 (21350)	18.20	18.70
		2535 (21100)	18.20	18.74
		2510 (20850)	18.22	18.64
	1RB-Low (0)	2560 (21350)	17.98	18.48
		2535 (21100)	17.90	18.44
		2510 (20850)	17.90	18.40
	50RB-High (50)	2560 (21350)	18.09	18.14

		2535 (21100)	18.09	18.14
		2510 (20850)	18.17	18.22
	50RB-Middle (25)	2560 (21350)	18.14	18.14
		2535 (21100)	18.16	18.20
		2510 (20850)	18.15	18.13
	50RB-Low (0)	2560 (21350)	18.10	18.16
		2535 (21100)	18.12	18.19
		2510 (20850)	18.07	18.07
	100RB (0)	2560 (21350)	18.12	18.18
		2535 (21100)	18.12	18.14
		2510 (20850)	18.15	18.19

LTEB13(receiver on/off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	784.5 (23255)	23.59	22.81
		782 (23230)	23.49	22.76
		779.5 (23205)	23.47	22.71
	1RB-Middle (12)	784.5 (23255)	23.80	23.13
		782 (23230)	23.70	23.00
		779.5 (23205)	23.74	22.96
	1RB-Low (0)	784.5 (23255)	23.49	22.83

		782 (23230)	23.48	22.80
		779.5 (23205)	23.53	22.83
	12RB-High (13)	784.5 (23255)	22.65	21.61
		782 (23230)	22.63	21.62
		779.5 (23205)	22.57	21.59
	12RB-Middle (6)	784.5 (23255)	22.71	21.75
		782 (23230)	22.63	21.65
		779.5 (23205)	22.64	21.65
	12RB-Low (0)	784.5 (23255)	22.64	21.68
		782 (23230)	22.61	21.63
		779.5 (23205)	22.62	21.63
	25RB (0)	784.5 (23255)	22.66	21.67
		782 (23230)	22.60	21.61
		779.5 (23205)	22.59	21.63

10MHz	1RB-High (49)	782 (23230)	23.65	22.99
	1RB-Middle (24)	782 (23230)	23.72	23.03
	1RB-Low (0)	782 (23230)	23.62	22.94
	25RB-High (25)	782 (23230)	22.70	21.73
	25RB-Middle (12)	782 (23230)	22.77	21.70
	25RB-Low (0)	782 (23230)	22.69	21.71

	50RB (0)	782 (23230)	22.71	21.72

LTEB13 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	784.5 (23255)	22.62	22.90
		782 (23230)	22.52	22.82
		779.5 (23205)	22.49	22.78
	1RB-Middle (12)	784.5 (23255)	22.82	23.10
		782 (23230)	22.74	23.02
		779.5 (23205)	22.70	23.02
	1RB-Low (0)	784.5 (23255)	22.52	22.72
		782 (23230)	22.50	22.81
		779.5 (23205)	22.53	22.85
	12RB-High (13)	784.5 (23255)	22.69	21.68
		782 (23230)	22.62	21.66
		779.5 (23205)	22.62	21.65
	12RB-Middle (6)	784.5 (23255)	22.75	21.73
		782 (23230)	22.64	21.68
		779.5 (23205)	22.67	21.74
	12RB-Low (0)	784.5 (23255)	22.68	21.66
		782 (23230)	22.63	21.66

		779.5 (23205)	22.66	21.73
	25RB (0)	784.5 (23255)	22.66	21.68
		782 (23230)	22.61	21.66
		779.5 (23205)	22.64	21.71

10MHz	1RB-High (49)	782 (23230)	22.65	22.98
	1RB-Middle (24)	782 (23230)	22.75	23.05
	1RB-Low (0)	782 (23230)	22.64	22.88
	25RB-High (25)	782 (23230)	22.72	21.72
	25RB-Middle (12)	782 (23230)	22.71	21.69
	25RB-Low (0)	782 (23230)	22.70	21.76
	50RB (0)	782 (23230)	22.71	21.72

LTEB26(receiver on/off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.53	22.76
		831.5 (26865)	23.58	22.76
		814.7 (26697)	23.62	22.85
	1RB-Middle (3)	848.3 (27033)	23.65	22.81
		831.5 (26865)	23.75	22.98
		814.7 (26697)	23.70	22.92
	1RB-Low (0)	848.3 (27033)	23.51	22.76

		831.5 (26865)	23.56	22.75
		814.7 (26697)	23.62	22.80
	3RB-High (3)	848.3 (27033)	23.62	22.57
		831.5 (26865)	23.67	22.64
		814.7 (26697)	23.74	22.66
	3RB-Middle (1)	848.3 (27033)	23.70	22.69
		831.5 (26865)	23.73	22.71
		814.7 (26697)	23.79	22.76
	3RB-Low (0)	848.3 (27033)	23.59	22.55
		831.5 (26865)	23.68	22.65
		814.7 (26697)	23.75	22.69
	6RB (0)	848.3 (27033)	22.68	21.75
		831.5 (26865)	22.70	21.78
		814.7 (26697)	22.74	21.81

3MHz	1RB-High (14)	847.5 (27025)	23.56	22.83
		831.5 (26865)	23.61	22.86
		815.5 (26705)	23.60	22.80
	1RB-Middle (7)	847.5 (27025)	23.72	22.89
		831.5 (26865)	23.80	23.01
		815.5 (26705)	23.82	22.92

	1RB-Low (0)	847.5 (27025)	23.57	22.80
		831.5 (26865)	23.59	22.87
		815.5 (26705)	23.62	22.92
	8RB-High (7)	847.5 (27025)	22.55	21.60
		831.5 (26865)	22.62	21.67
		815.5 (26705)	22.65	21.71
	8RB-Middle (4)	847.5 (27025)	22.59	21.66
		831.5 (26865)	22.69	21.72
		815.5 (26705)	22.68	21.71
	8RB-Low (0)	847.5 (27025)	22.59	21.67
		831.5 (26865)	22.63	21.70
		815.5 (26705)	22.64	21.73
	15RB (0)	847.5 (27025)	22.60	21.62
		831.5 (26865)	22.63	21.63
		815.5 (26705)	22.64	21.69

5MHz	1RB-High (24)	846.5 (27015)	23.43	22.60
		831.5 (26865)	23.54	22.76
		816.5 (26715)	23.55	22.83
	1RB-Middle (12)	846.5 (27015)	23.68	22.95
		831.5 (26865)	23.77	22.99

		816.5 (26715)	23.77	23.05
	1RB-Low (0)	846.5 (27015)	23.48	22.73
		831.5 (26865)	23.52	22.80
		816.5 (26715)	23.59	22.87
	12RB-High (13)	846.5 (27015)	22.54	21.53
		831.5 (26865)	22.62	21.61
		816.5 (26715)	22.67	21.66
	12RB-Middle (6)	846.5 (27015)	22.64	21.60
		831.5 (26865)	22.68	21.69
		816.5 (26715)	22.72	21.70
	12RB-Low (0)	846.5 (27015)	22.64	21.64
		831.5 (26865)	22.64	21.64
		816.5 (26715)	22.64	21.64
	25RB (0)	846.5 (27015)	22.62	21.63
		831.5 (26865)	22.65	21.65
		816.5 (26715)	22.68	21.70

10MHz	1RB-High (49)	844 (26990)	23.54	22.81
		831.5 (26865)	23.59	22.75
		820 (26750)	23.59	22.82
	1RB-Middle (24)	844 (26990)	23.66	23.01

		831.5 (26865)	23.68	22.92
		820 (26750)	23.76	23.00
	1RB-Low (0)	844 (26990)	23.64	22.95
		831.5 (26865)	23.62	22.79
		820 (26750)	23.66	22.96
	25RB-High (25)	844 (26990)	22.56	21.57
		831.5 (26865)	22.67	21.70
		820 (26750)	22.69	21.73
	25RB-Middle (12)	844 (26990)	22.64	21.65
		831.5 (26865)	22.70	21.69
		820 (26750)	22.72	21.70
	25RB-Low (0)	844 (26990)	22.70	21.72
		831.5 (26865)	22.72	21.72
		820 (26750)	22.70	21.66
	50RB (0)	844 (26990)	22.65	21.66
		831.5 (26865)	22.70	21.69
		820 (26750)	22.69	21.70

15MHz	1RB-High (74)	841.5 (26965)	23.33	22.56
		831.5 (26865)	23.40	22.69
		822.5 (26775)	23.43	22.72

	1RB-Middle (37)	841.5 (26965)	23.50	22.81
		831.5 (26865)	23.51	22.65
		822.5 (26775)	23.55	22.76
	1RB-Low (0)	841.5 (26965)	23.50	22.68
		831.5 (26865)	23.49	22.80
		822.5 (26775)	23.50	22.76
	36RB-High (38)	841.5 (26965)	22.46	21.45
		831.5 (26865)	22.56	21.49
		822.5 (26775)	22.58	21.55
	36RB-Middle (19)	841.5 (26965)	22.58	21.55
		831.5 (26865)	22.58	21.59
		822.5 (26775)	22.61	21.58
	36RB-Low (0)	841.5 (26965)	22.59	21.55
		831.5 (26865)	22.58	21.57
		822.5 (26775)	22.60	21.57
	75RB (0)	841.5 (26965)	22.53	21.54
		831.5 (26865)	22.58	21.56
		822.5 (26775)	22.56	21.59

LTEB26 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM

1.4MHz	1RB-High (5)	848.3 (27033)	22.44	22.65
		831.5 (26865)	22.52	22.75
		814.7 (26697)	22.59	22.84
	1RB-Middle (3)	848.3 (27033)	22.54	22.84
		831.5 (26865)	22.63	22.78
		814.7 (26697)	22.69	22.94
	1RB-Low (0)	848.3 (27033)	22.44	22.70
		831.5 (26865)	22.50	22.67
		814.7 (26697)	22.59	22.71
	3RB-High (3)	848.3 (27033)	22.55	22.48
		831.5 (26865)	22.62	22.59
		814.7 (26697)	22.67	22.56
	3RB-Middle (1)	848.3 (27033)	22.61	22.55
		831.5 (26865)	22.71	22.64
		814.7 (26697)	22.73	22.67
	3RB-Low (0)	848.3 (27033)	22.54	22.50
		831.5 (26865)	22.63	22.51
		814.7 (26697)	22.68	22.65
	6RB (0)	848.3 (27033)	22.54	21.62
		831.5 (26865)	22.66	21.72

		814.7 (26697)	22.69	21.75

3MHz	1RB-High (14)	847.5 (27025)	22.47	22.68
		831.5 (26865)	22.53	22.77
		815.5 (26705)	22.57	22.74
	1RB-Middle (7)	847.5 (27025)	22.61	22.86
		831.5 (26865)	22.67	22.83
		815.5 (26705)	22.63	22.82
	1RB-Low (0)	847.5 (27025)	22.49	22.78
		831.5 (26865)	22.56	22.75
		815.5 (26705)	22.55	22.72
	8RB-High (7)	847.5 (27025)	22.50	21.54
		831.5 (26865)	22.57	21.63
		815.5 (26705)	22.54	21.63
	8RB-Middle (4)	847.5 (27025)	22.51	21.57
		831.5 (26865)	22.61	21.63
		815.5 (26705)	22.59	21.66
	8RB-Low (0)	847.5 (27025)	22.51	21.57
		831.5 (26865)	22.57	21.66
		815.5 (26705)	22.56	21.64
	15RB (0)	847.5 (27025)	22.52	21.51

		831.5 (26865)	22.59	21.57
		815.5 (26705)	22.59	21.57

5MHz	1RB-High (24)	846.5 (27015)	22.38	22.57
		831.5 (26865)	22.47	22.59
		816.5 (26715)	22.49	22.81
	1RB-Middle (12)	846.5 (27015)	22.62	22.91
		831.5 (26865)	22.69	22.83
		816.5 (26715)	22.71	22.85
	1RB-Low (0)	846.5 (27015)	22.42	22.71
		831.5 (26865)	22.47	22.71
		816.5 (26715)	22.53	22.71
	12RB-High (13)	846.5 (27015)	22.45	21.43
		831.5 (26865)	22.57	21.55
		816.5 (26715)	22.61	21.63
	12RB-Middle (6)	846.5 (27015)	22.57	21.56
		831.5 (26865)	22.63	21.62
		816.5 (26715)	22.68	21.66
	12RB-Low (0)	846.5 (27015)	22.55	21.55
		831.5 (26865)	22.59	21.58
		816.5 (26715)	22.61	21.59

	25RB (0)	846.5 (27015)	22.54	21.55
		831.5 (26865)	22.61	21.58
		816.5 (26715)	22.63	21.65

10MHz	1RB-High (49)	844 (26990)	22.48	22.71
		831.5 (26865)	22.52	22.76
		820 (26750)	22.54	22.78
	1RB-Middle (24)	844 (26990)	22.59	22.95
		831.5 (26865)	22.65	22.94
		820 (26750)	22.70	22.84
	1RB-Low (0)	844 (26990)	22.59	22.86
		831.5 (26865)	22.57	22.87
		820 (26750)	22.60	22.85
	25RB-High (25)	844 (26990)	22.46	21.48
		831.5 (26865)	22.65	21.62
		820 (26750)	22.65	21.66
	25RB-Middle (12)	844 (26990)	22.56	21.56
		831.5 (26865)	22.65	21.62
		820 (26750)	22.66	21.69
	25RB-Low (0)	844 (26990)	22.61	21.63
		831.5 (26865)	22.67	21.69

		820 (26750)	22.67	21.65
	50RB (0)	844 (26990)	22.56	21.56
		831.5 (26865)	22.63	21.63
		820 (26750)	22.65	21.65

15MHz	1RB-High (74)	841.5 (26965)	23.41	22.62
		831.5 (26865)	23.50	22.67
		822.5 (26775)	23.48	22.66
	1RB-Middle (37)	841.5 (26965)	23.57	22.78
		831.5 (26865)	23.60	22.77
		822.5 (26775)	23.66	22.89
	1RB-Low (0)	841.5 (26965)	23.55	22.77
		831.5 (26865)	23.55	22.82
		822.5 (26775)	23.54	22.81
	36RB-High (38)	841.5 (26965)	22.52	21.51
		831.5 (26865)	22.59	21.56
		822.5 (26775)	22.60	21.61
	36RB-Middle (19)	841.5 (26965)	22.64	21.62
		831.5 (26865)	22.65	21.62
		822.5 (26775)	22.68	21.62
	36RB-Low (0)	841.5 (26965)	22.67	21.64

		831.5 (26865)	22.57	21.64
		822.5 (26775)	22.62	21.62
	75RB (0)	841.5 (26965)	22.60	21.60
		831.5 (26865)	22.61	21.62
		822.5 (26775)	22.61	21.64

LTEB38(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2617.5 (38225)	23.29	22.37
		2595 (38000)	23.26	22.32
		2572.5 (37775)	23.21	22.23
	1RB-Middle (12)	2617.5 (38225)	23.46	22.55
		2595 (38000)	23.52	22.59
		2572.5 (37775)	23.42	22.47
	1RB-Low (0)	2617.5 (38225)	23.34	22.42
		2595 (38000)	23.29	22.38
		2572.5 (37775)	23.23	22.28
	12RB-High (13)	2617.5 (38225)	22.44	21.33
		2595 (38000)	22.41	21.33
		2572.5 (37775)	22.33	21.30
	12RB-Middle (6)	2617.5 (38225)	22.51	21.44

		2595 (38000)	22.47	21.39
		2572.5 (37775)	22.42	21.32
	12RB-Low (0)	2617.5 (38225)	22.46	21.34
		2595 (38000)	22.42	21.30
		2572.5 (37775)	22.36	21.22
	25RB (0)	2617.5 (38225)	22.37	21.46
		2595 (38000)	22.38	21.40
		2572.5 (37775)	22.31	21.34

10MHz	1RB-High (49)	2615 (38200)	23.33	22.40
		2595 (38000)	23.37	22.39
		2575 (37800)	23.30	22.34
	1RB-Middle (24)	2615 (38200)	23.55	22.58
		2595 (38000)	23.53	22.57
		2575 (37800)	23.45	22.53
	1RB-Low (0)	2615 (38200)	23.45	22.47
		2595 (38000)	23.42	22.40
		2575 (37800)	23.38	22.43
	25RB-High (25)	2615 (38200)	22.43	21.41
		2595 (38000)	22.41	21.38
		2575 (37800)	22.43	21.38

	25RB-Middle (12)	2615 (38200)	22.45	21.50
		2595 (38000)	22.46	21.39
		2575 (37800)	22.45	21.40
	25RB-Low (0)	2615 (38200)	22.49	21.49
		2595 (38000)	22.43	21.42
		2575 (37800)	22.38	21.32
	50RB (0)	2615 (38200)	22.40	21.38
		2595 (38000)	22.35	21.40
		2575 (37800)	22.30	21.35

15MHz	1RB-High (74)	2612.5 (38175)	23.20	22.30
		2595 (38000)	23.25	22.29
		2577.5 (37825)	23.21	22.28
	1RB-Middle (37)	2612.5 (38175)	23.42	22.49
		2595 (38000)	23.40	22.45
		2577.5 (37825)	23.39	22.46
	1RB-Low (0)	2612.5 (38175)	23.36	22.39
		2595 (38000)	23.30	22.37
		2577.5 (37825)	23.29	22.35
	36RB-High (38)	2612.5 (38175)	22.41	21.28
		2595 (38000)	22.44	21.33

		2577.5 (37825)	22.34	21.33
	36RB-Middle (19)	2612.5 (38175)	22.46	21.35
		2595 (38000)	22.47	21.33
		2577.5 (37825)	22.44	21.35
	36RB-Low (0)	2612.5 (38175)	22.43	21.39
		2595 (38000)	22.41	21.36
		2577.5 (37825)	22.35	21.31
	75RB (0)	2612.5 (38175)	22.38	21.41
		2595 (38000)	22.32	21.33
		2577.5 (37825)	22.31	21.33

20MHz	1RB-High (99)	2610 (38150)	23.16	22.18
		2595 (38000)	23.18	22.23
		2580 (37850)	23.23	22.28
	1RB-Middle (50)	2610 (38150)	23.53	22.56
		2595 (38000)	23.64	22.52
		2580 (37850)	23.67	22.72
	1RB-Low (0)	2610 (38150)	23.32	22.34
		2595 (38000)	23.40	22.39
		2580 (37850)	23.43	22.45
	50RB-High (50)	2610 (38150)	22.32	21.40

		2595 (38000)	22.33	21.43
		2580 (37850)	22.46	21.51
	50RB-Middle (25)	2610 (38150)	22.40	21.45
		2595 (38000)	22.38	21.51
		2580 (37850)	22.49	21.58
	50RB-Low (0)	2610 (38150)	22.39	21.43
		2595 (38000)	22.47	21.50
		2580 (37850)	22.44	21.54
	100RB (0)	2610 (38150)	22.44	21.53
		2595 (38000)	22.51	21.54
		2580 (37850)	22.55	21.56

LTEB38 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2617.5 (38225)	23.26	22.36
		2595 (38000)	23.27	22.28
		2572.5 (37775)	23.21	22.30
	1RB-Middle (12)	2617.5 (38225)	23.45	22.43
		2595 (38000)	23.46	22.43
		2572.5 (37775)	23.41	22.47
	1RB-Low (0)	2617.5 (38225)	23.32	22.41

		2595 (38000)	23.31	22.39
		2572.5 (37775)	23.21	22.28
	12RB-High (13)	2617.5 (38225)	22.41	21.33
		2595 (38000)	22.43	21.33
		2572.5 (37775)	22.36	21.27
	12RB-Middle (6)	2617.5 (38225)	22.50	21.40
		2595 (38000)	22.50	21.39
		2572.5 (37775)	22.40	21.33
	12RB-Low (0)	2617.5 (38225)	22.43	21.31
		2595 (38000)	22.44	21.32
		2572.5 (37775)	22.33	21.21
	25RB (0)	2617.5 (38225)	22.41	21.37
		2595 (38000)	22.43	21.39
		2572.5 (37775)	22.31	21.35

10MHz	1RB-High (49)	2615 (38200)	23.32	22.42
		2595 (38000)	23.31	22.41
		2575 (37800)	23.32	22.37
	1RB-Middle (24)	2615 (38200)	23.42	22.38
		2595 (38000)	23.43	22.35
		2575 (37800)	23.45	22.49

	1RB-Low (0)	2615 (38200)	23.43	22.42
		2595 (38000)	23.39	22.48
		2575 (37800)	23.37	22.45
	25RB-High (25)	2615 (38200)	22.43	21.39
		2595 (38000)	22.42	21.46
		2575 (37800)	22.40	21.39
	25RB-Middle (12)	2615 (38200)	22.44	21.46
		2595 (38000)	22.46	21.48
		2575 (37800)	22.44	21.45
	25RB-Low (0)	2615 (38200)	22.47	21.44
		2595 (38000)	22.43	21.43
		2575 (37800)	22.33	21.32
	50RB (0)	2615 (38200)	22.40	21.45
		2595 (38000)	22.31	21.41
		2575 (37800)	22.31	21.35

15MHz	1RB-High (74)	2612.5 (38175)	23.23	22.29
		2595 (38000)	23.25	22.31
		2577.5 (37825)	23.19	22.28
	1RB-Middle (37)	2612.5 (38175)	23.40	22.44
		2595 (38000)	23.39	22.45

		2577.5 (37825)	23.39	22.45
	1RB-Low (0)	2612.5 (38175)	23.33	22.40
		2595 (38000)	23.32	22.38
		2577.5 (37825)	23.29	22.38
	36RB-High (38)	2612.5 (38175)	22.37	21.32
		2595 (38000)	22.48	21.35
		2577.5 (37825)	22.34	21.23
	36RB-Middle (19)	2612.5 (38175)	22.46	21.34
		2595 (38000)	22.45	21.36
		2577.5 (37825)	22.48	21.36
	36RB-Low (0)	2612.5 (38175)	22.45	21.40
		2595 (38000)	22.43	21.36
		2577.5 (37825)	22.41	21.24
	75RB (0)	2612.5 (38175)	22.40	21.39
		2595 (38000)	22.35	21.33
		2577.5 (37825)	22.35	21.36

20MHz	1RB-High (99)	2610 (38150)	22.69	22.24
		2595 (38000)	22.68	22.21
		2580 (37850)	22.69	22.23
	1RB-Middle (50)	2610 (38150)	23.12	22.42

		2595 (38000)	23.04	22.48
		2580 (37850)	23.16	22.49
	1RB-Low (0)	2610 (38150)	22.84	22.33
		2595 (38000)	22.79	22.35
		2580 (37850)	22.81	22.35
	50RB-High (50)	2610 (38150)	22.37	21.43
		2595 (38000)	22.33	21.41
		2580 (37850)	22.33	21.41
	50RB-Middle (25)	2610 (38150)	22.43	21.43
		2595 (38000)	22.44	21.46
		2580 (37850)	22.47	21.47
	50RB-Low (0)	2610 (38150)	22.42	21.45
		2595 (38000)	22.37	21.45
		2580 (37850)	22.35	21.39
	100RB (0)	2610 (38150)	22.49	21.44
		2595 (38000)	22.48	21.41
		2580 (37850)	22.41	21.47

LTEB38 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2617.5 (38225)	20.38	20.42

		2595 (38000)	20.37	20.41
		2572.5 (37775)	20.30	20.36
	1RB-Middle (12)	2617.5 (38225)	20.67	20.56
		2595 (38000)	20.51	20.69
		2572.5 (37775)	20.61	20.57
	1RB-Low (0)	2617.5 (38225)	20.44	20.51
		2595 (38000)	20.44	20.55
		2572.5 (37775)	20.42	20.43
	12RB-High (13)	2617.5 (38225)	20.48	20.38
		2595 (38000)	20.50	20.38
		2572.5 (37775)	20.47	20.36
	12RB-Middle (6)	2617.5 (38225)	20.50	20.43
		2595 (38000)	20.50	20.42
		2572.5 (37775)	20.42	20.41
	12RB-Low (0)	2617.5 (38225)	20.49	20.42
		2595 (38000)	20.55	20.37
		2572.5 (37775)	20.39	20.37
	25RB (0)	2617.5 (38225)	20.44	20.47
		2595 (38000)	20.41	20.46
		2572.5 (37775)	20.45	20.47

10MHz	1RB-High (49)	2615 (38200)	20.45	20.52
		2595 (38000)	20.43	20.51
		2575 (37800)	20.45	20.51
	1RB-Middle (24)	2615 (38200)	20.48	20.64
		2595 (38000)	20.57	20.63
		2575 (37800)	20.42	20.62
	1RB-Low (0)	2615 (38200)	20.56	20.60
		2595 (38000)	20.51	20.59
		2575 (37800)	20.52	20.57
	25RB-High (25)	2615 (38200)	20.48	20.49
		2595 (38000)	20.47	20.54
		2575 (37800)	20.57	20.47
	25RB-Middle (12)	2615 (38200)	20.52	20.50
		2595 (38000)	20.50	20.53
		2575 (37800)	20.49	20.51
	25RB-Low (0)	2615 (38200)	20.50	20.56
		2595 (38000)	20.51	20.51
		2575 (37800)	20.52	20.50
	50RB (0)	2615 (38200)	20.47	20.46
		2595 (38000)	20.43	20.51

		2575 (37800)	20.45	20.47

15MHz	1RB-High (74)	2612.5 (38175)	20.35	20.41
		2595 (38000)	20.36	20.42
		2577.5 (37825)	20.39	20.42
	1RB-Middle (37)	2612.5 (38175)	20.44	20.59
		2595 (38000)	20.48	20.53
		2577.5 (37825)	20.48	20.61
	1RB-Low (0)	2612.5 (38175)	20.50	20.59
		2595 (38000)	20.44	20.54
		2577.5 (37825)	20.45	20.51
	36RB-High (38)	2612.5 (38175)	20.45	20.37
		2595 (38000)	20.55	20.37
		2577.5 (37825)	20.50	20.40
	36RB-Middle (19)	2612.5 (38175)	20.45	20.44
		2595 (38000)	20.52	20.45
		2577.5 (37825)	20.50	20.42
	36RB-Low (0)	2612.5 (38175)	20.49	20.50
		2595 (38000)	20.51	20.46
		2577.5 (37825)	20.46	20.44
	75RB (0)	2612.5 (38175)	20.45	20.46

		2595 (38000)	20.44	20.43
		2577.5 (37825)	20.45	20.49

20MHz	1RB-High (99)	2610 (38150)	20.11	20.42
		2595 (38000)	20.20	20.37
		2580 (37850)	20.23	20.65
	1RB-Middle (50)	2610 (38150)	20.59	20.94
		2595 (38000)	20.72	20.85
		2580 (37850)	20.77	20.86
	1RB-Low (0)	2610 (38150)	20.21	20.54
		2595 (38000)	20.36	20.51
		2580 (37850)	20.39	20.77
	50RB-High (50)	2610 (38150)	20.32	20.33
		2595 (38000)	20.43	20.42
		2580 (37850)	20.52	20.56
	50RB-Middle (25)	2610 (38150)	20.39	20.44
		2595 (38000)	20.49	20.50
		2580 (37850)	20.50	20.59
	50RB-Low (0)	2610 (38150)	20.41	20.41
		2595 (38000)	20.46	20.51
		2580 (37850)	20.42	20.53

	100RB (0)	2610 (38150)	20.39	20.38
		2595 (38000)	20.49	20.46
		2580 (37850)	20.48	20.52

LTEB66(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.24	22.45
		1745 (132322)	23.21	22.41
		1710.7 (131979)	23.32	22.50
	1RB-Middle (3)	1779.3 (132665)	23.38	22.68
		1745 (132322)	23.33	22.50
		1710.7 (131979)	23.42	22.61
	1RB-Low (0)	1779.3 (132665)	23.25	22.55
		1745 (132322)	23.18	22.38
		1710.7 (131979)	23.33	22.51
	3RB-High (3)	1779.3 (132665)	23.34	22.28
		1745 (132322)	23.27	22.24
		1710.7 (131979)	23.40	22.41
	3RB-Middle (1)	1779.3 (132665)	23.43	22.40
		1745 (132322)	23.33	22.25
		1710.7 (131979)	23.45	22.39

	3RB-Low (0)	1779.3 (132665)	23.36	22.22
		1745 (132322)	23.28	22.27
		1710.7 (131979)	23.41	22.31
	6RB (0)	1779.3 (132665)	22.34	21.44
		1745 (132322)	22.31	21.40
		1710.7 (131979)	22.42	21.52

3MHz	1RB-High (14)	1778.5 (132657)	23.30	22.46
		1745 (132322)	23.23	22.38
		1711.5 (131987)	23.33	22.60
	1RB-Middle (7)	1778.5 (132657)	23.43	22.58
		1745 (132322)	23.34	22.57
		1711.5 (131987)	23.47	22.72
	1RB-Low (0)	1778.5 (132657)	23.31	22.53
		1745 (132322)	23.23	22.40
		1711.5 (131987)	23.35	22.66
	8RB-High (7)	1778.5 (132657)	22.30	21.39
		1745 (132322)	22.25	21.31
		1711.5 (131987)	22.39	21.45
	8RB-Middle (4)	1778.5 (132657)	22.36	21.39
		1745 (132322)	22.27	21.35

		1711.5 (131987)	22.40	21.46
	8RB-Low (0)	1778.5 (132657)	22.37	21.41
		1745 (132322)	22.27	21.33
		1711.5 (131987)	22.34	21.41
	15RB (0)	1778.5 (132657)	22.34	21.33
		1745 (132322)	22.26	21.25
		1711.5 (131987)	22.38	21.40

5MHz	1RB-High (24)	1777.5 (132647)	23.21	22.53
		1745 (132322)	23.13	22.44
		1712.5 (131997)	23.23	22.44
	1RB-Middle (12)	1777.5 (132647)	23.45	22.73
		1745 (132322)	23.44	22.70
		1712.5 (131997)	23.48	22.73
	1RB-Low (0)	1777.5 (132647)	23.22	22.53
		1745 (132322)	23.15	22.31
		1712.5 (131997)	23.26	22.46
	12RB-High (13)	1777.5 (132647)	22.31	21.29
		1745 (132322)	22.24	21.26
		1712.5 (131997)	22.37	21.33
	12RB-Middle (6)	1777.5 (132647)	22.41	21.39

		1745 (132322)	22.32	21.31
		1712.5 (131997)	22.43	21.39
	12RB-Low (0)	1777.5 (132647)	22.38	21.36
		1745 (132322)	22.27	21.24
		1712.5 (131997)	22.34	21.31
	25RB (0)	1777.5 (132647)	22.36	21.35
		1745 (132322)	22.28	21.27
		1712.5 (131997)	22.40	21.39

10MHz	1RB-High (49)	1775 (132622)	23.28	22.59
		1745 (132322)	23.22	22.42
		1715 (132022)	23.31	22.65
	1RB-Middle (24)	1775 (132622)	23.44	22.71
		1745 (132322)	23.37	22.60
		1715 (132022)	23.43	22.68
	1RB-Low (0)	1775 (132622)	23.25	22.53
		1745 (132322)	23.30	22.45
		1715 (132022)	23.33	22.65
	25RB-High (25)	1775 (132622)	22.34	21.33
		1745 (132322)	22.30	21.26
		1715 (132022)	22.44	21.41

	25RB-Middle (12)	1775 (132622)	22.42	21.38
		1745 (132322)	22.35	21.34
		1715 (132022)	22.43	21.42
	25RB-Low (0)	1775 (132622)	22.38	21.39
		1745 (132322)	22.40	21.38
		1715 (132022)	22.42	21.40
	50RB (0)	1775 (132622)	22.38	21.38
		1745 (132322)	22.36	21.35
		1715 (132022)	22.44	21.44

15MHz	1RB-High (74)	1772.5 (132597)	23.25	22.41
		1745 (132322)	23.14	22.40
		1717.5 (132047)	23.26	22.57
	1RB-Middle (37)	1772.5 (132597)	23.32	22.59
		1745 (132322)	23.27	22.52
		1717.5 (132047)	23.35	22.58
	1RB-Low (0)	1772.5 (132597)	23.25	22.57
		1745 (132322)	23.28	22.52
		1717.5 (132047)	23.32	22.52
	36RB-High (38)	1772.5 (132597)	22.35	21.30
		1745 (132322)	22.27	21.27

		1717.5 (132047)	22.41	21.40
	36RB-Middle (19)	1772.5 (132597)	22.37	21.36
		1745 (132322)	22.37	21.36
		1717.5 (132047)	22.45	21.40
	36RB-Low (0)	1772.5 (132597)	22.35	21.35
		1745 (132322)	22.41	21.37
		1717.5 (132047)	22.45	21.39
	75RB (0)	1772.5 (132597)	22.34	21.34
		1745 (132322)	22.33	21.30
		1717.5 (132047)	22.42	21.42

20MHz	1RB-High (99)	1770 (132572)	23.16	22.38
		1745 (132322)	23.04	22.29
		1720 (132072)	23.14	22.51
	1RB-Middle (50)	1770 (132572)	23.42	22.72
		1745 (132322)	23.38	22.62
		1720 (132072)	23.41	22.72
	1RB-Low (0)	1770 (132572)	23.16	22.43
		1745 (132322)	23.16	22.41
		1720 (132072)	23.10	22.40
	50RB-High (50)	1770 (132572)	22.39	21.35

		1745 (132322)	22.27	21.30
		1720 (132072)	22.39	21.43
	50RB-Middle (25)	1770 (132572)	22.49	21.47
		1745 (132322)	22.47	21.43
		1720 (132072)	22.41	21.41
	50RB-Low (0)	1770 (132572)	22.45	21.44
		1745 (132322)	22.43	21.42
		1720 (132072)	22.37	21.38
	100RB (0)	1770 (132572)	22.39	21.39
		1745 (132322)	22.38	21.35
		1720 (132072)	22.35	21.38

LTEB66 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	22.25	22.43
		1745 (132322)	22.16	22.36
		1710.7 (131979)	22.30	22.47
	1RB-Middle (3)	1779.3 (132665)	22.32	22.63
		1745 (132322)	22.27	22.50
		1710.7 (131979)	22.43	22.67
	1RB-Low (0)	1779.3 (132665)	22.24	22.37

		1745 (132322)	22.18	22.35
		1710.7 (131979)	22.28	22.57
	3RB-High (3)	1779.3 (132665)	22.34	22.23
		1745 (132322)	22.25	22.19
		1710.7 (131979)	22.41	22.34
	3RB-Middle (1)	1779.3 (132665)	22.39	22.29
		1745 (132322)	22.32	22.21
		1710.7 (131979)	22.47	22.44
	3RB-Low (0)	1779.3 (132665)	22.33	22.22
		1745 (132322)	22.27	22.18
		1710.7 (131979)	22.39	22.39
	6RB (0)	1779.3 (132665)	22.29	21.36
		1745 (132322)	22.28	21.33
		1710.7 (131979)	22.39	21.49

3MHz	1RB-High (14)	1778.5 (132657)	22.29	22.49
		1745 (132322)	22.20	22.45
		1711.5 (131987)	22.29	22.50
	1RB-Middle (7)	1778.5 (132657)	22.47	22.60
		1745 (132322)	22.41	22.60
		1711.5 (131987)	22.46	22.63

	1RB-Low (0)	1778.5 (132657)	22.27	22.49
		1745 (132322)	22.24	22.44
		1711.5 (131987)	22.32	22.62
	8RB-High (7)	1778.5 (132657)	22.31	21.36
		1745 (132322)	22.22	21.27
		1711.5 (131987)	22.38	21.41
	8RB-Middle (4)	1778.5 (132657)	22.30	21.36
		1745 (132322)	22.29	21.32
		1711.5 (131987)	22.41	21.44
	8RB-Low (0)	1778.5 (132657)	22.30	21.38
		1745 (132322)	22.25	21.33
		1711.5 (131987)	22.36	21.40
	15RB (0)	1778.5 (132657)	22.31	21.33
		1745 (132322)	22.23	21.26
		1711.5 (131987)	22.35	21.35

5MHz	1RB-High (24)	1777.5 (132647)	22.18	22.44
		1745 (132322)	22.11	22.29
		1712.5 (131997)	22.21	22.51
	1RB-Middle (12)	1777.5 (132647)	22.43	22.67
		1745 (132322)	22.45	22.63

		1712.5 (131997)	22.44	22.59
	1RB-Low (0)	1777.5 (132647)	22.22	22.48
		1745 (132322)	22.16	22.42
		1712.5 (131997)	22.24	22.48
	12RB-High (13)	1777.5 (132647)	22.26	21.20
		1745 (132322)	22.23	21.18
		1712.5 (131997)	22.32	21.31
	12RB-Middle (6)	1777.5 (132647)	22.37	21.32
		1745 (132322)	22.29	21.26
		1712.5 (131997)	22.41	21.34
	12RB-Low (0)	1777.5 (132647)	22.35	21.30
		1745 (132322)	22.25	21.23
		1712.5 (131997)	22.32	21.31
	25RB (0)	1777.5 (132647)	22.32	21.33
		1745 (132322)	22.25	21.24
		1712.5 (131997)	22.37	21.36

10MHz	1RB-High (49)	1775 (132622)	22.28	22.46
		1745 (132322)	22.19	22.38
		1715 (132022)	22.28	22.56
	1RB-Middle (24)	1775 (132622)	22.44	22.68

		1745 (132322)	22.33	22.50
		1715 (132022)	22.40	22.67
	1RB-Low (0)	1775 (132622)	22.24	22.58
		1745 (132322)	22.25	22.53
		1715 (132022)	22.31	22.58
	25RB-High (25)	1775 (132622)	22.31	21.33
		1745 (132322)	22.29	21.26
		1715 (132022)	22.40	21.40
	25RB-Middle (12)	1775 (132622)	22.40	21.40
		1745 (132322)	22.34	21.32
		1715 (132022)	22.38	21.39
	25RB-Low (0)	1775 (132622)	22.38	21.36
		1745 (132322)	22.37	21.34
		1715 (132022)	22.38	21.37
	50RB (0)	1775 (132622)	22.37	21.36
		1745 (132322)	22.34	21.32
		1715 (132022)	22.41	21.40

15MHz	1RB-High (74)	1772.5 (132597)	22.22	22.51
		1745 (132322)	22.18	22.36
		1717.5 (132047)	22.20	22.41

	1RB-Middle (37)	1772.5 (132597)	22.32	22.52
		1745 (132322)	22.27	22.45
		1717.5 (132047)	22.33	22.48
	1RB-Low (0)	1772.5 (132597)	22.21	22.53
		1745 (132322)	22.23	22.53
		1717.5 (132047)	22.31	22.55
	36RB-High (38)	1772.5 (132597)	22.35	21.30
		1745 (132322)	22.28	21.24
		1717.5 (132047)	22.39	21.36
	36RB-Middle (19)	1772.5 (132597)	22.37	21.32
		1745 (132322)	22.37	21.33
		1717.5 (132047)	22.43	21.37
	36RB-Low (0)	1772.5 (132597)	22.36	21.32
		1745 (132322)	22.38	21.34
		1717.5 (132047)	22.40	21.38
	75RB (0)	1772.5 (132597)	22.34	21.31
		1745 (132322)	22.30	21.27
		1717.5 (132047)	22.40	21.38

20MHz	1RB-High (99)	1770 (132572)	22.13	22.41
		1745 (132322)	22.03	22.33

		1720 (132072)	22.14	22.39
	1RB-Middle (50)	1770 (132572)	22.44	22.42
		1745 (132322)	22.35	22.47
		1720 (132072)	22.50	22.47
	1RB-Low (0)	1770 (132572)	22.11	22.36
		1745 (132322)	22.16	22.48
		1720 (132072)	22.20	22.41
	50RB-High (50)	1770 (132572)	22.30	21.30
		1745 (132322)	22.22	21.22
		1720 (132072)	22.42	21.43
	50RB-Middle (25)	1770 (132572)	22.42	21.43
		1745 (132322)	22.42	21.37
		1720 (132072)	22.47	21.47
	50RB-Low (0)	1770 (132572)	22.37	21.37
		1745 (132322)	22.39	21.38
		1720 (132072)	22.41	21.40
	100RB (0)	1770 (132572)	22.33	21.34
		1745 (132322)	22.29	21.29
		1720 (132072)	22.41	21.41

LTEB66 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	19.31	19.55
		1745 (132322)	19.21	19.53
		1710.7 (131979)	19.32	19.71
	1RB-Middle (3)	1779.3 (132665)	19.41	19.63
		1745 (132322)	19.33	19.57
		1710.7 (131979)	19.46	19.78
	1RB-Low (0)	1779.3 (132665)	19.29	19.60
		1745 (132322)	19.20	19.48
		1710.7 (131979)	19.34	19.58
	3RB-High (3)	1779.3 (132665)	19.38	19.35
		1745 (132322)	19.33	19.30
		1710.7 (131979)	19.43	19.39
	3RB-Middle (1)	1779.3 (132665)	19.44	19.39
		1745 (132322)	19.36	19.31
		1710.7 (131979)	19.49	19.46
	3RB-Low (0)	1779.3 (132665)	19.38	19.42
		1745 (132322)	19.32	19.23
		1710.7 (131979)	19.42	19.39
	6RB (0)	1779.3 (132665)	19.38	19.49

		1745 (132322)	19.29	19.37
		1710.7 (131979)	19.39	19.52

3MHz	1RB-High (14)	1778.5 (132657)	19.31	19.74
		1745 (132322)	19.27	19.61
		1711.5 (131987)	19.33	19.58
	1RB-Middle (7)	1778.5 (132657)	19.50	19.79
		1745 (132322)	19.51	19.65
		1711.5 (131987)	19.48	19.80
	1RB-Low (0)	1778.5 (132657)	19.31	19.73
		1745 (132322)	19.25	19.66
		1711.5 (131987)	19.39	19.65
	8RB-High (7)	1778.5 (132657)	19.36	19.45
		1745 (132322)	19.26	19.34
		1711.5 (131987)	19.41	19.46
	8RB-Middle (4)	1778.5 (132657)	19.39	19.47
		1745 (132322)	19.31	19.38
		1711.5 (131987)	19.42	19.51
	8RB-Low (0)	1778.5 (132657)	19.36	19.46
		1745 (132322)	19.30	19.37
		1711.5 (131987)	19.39	19.49

	15RB (0)	1778.5 (132657)	19.34	19.38
		1745 (132322)	19.29	19.31
		1711.5 (131987)	19.39	19.39

5MHz	1RB-High (24)	1777.5 (132647)	19.25	19.59
		1745 (132322)	19.18	19.44
		1712.5 (131997)	19.25	19.50
	1RB-Middle (12)	1777.5 (132647)	19.50	19.77
		1745 (132322)	19.37	19.73
		1712.5 (131997)	19.50	19.87
	1RB-Low (0)	1777.5 (132647)	19.24	19.55
		1745 (132322)	19.18	19.56
		1712.5 (131997)	19.29	19.64
	12RB-High (13)	1777.5 (132647)	19.36	19.34
		1745 (132322)	19.23	19.28
		1712.5 (131997)	19.39	19.38
	12RB-Middle (6)	1777.5 (132647)	19.43	19.43
		1745 (132322)	19.33	19.37
		1712.5 (131997)	19.45	19.46
	12RB-Low (0)	1777.5 (132647)	19.39	19.43
		1745 (132322)	19.31	19.31

		1712.5 (131997)	19.35	19.37
	25RB (0)	1777.5 (132647)	19.39	19.38
		1745 (132322)	19.30	19.34
		1712.5 (131997)	19.42	19.44

10MHz	1RB-High (49)	1775 (132622)	19.34	19.58
		1745 (132322)	19.25	19.60
		1715 (132022)	19.33	19.68
	1RB-Middle (24)	1775 (132622)	19.45	19.81
		1745 (132322)	19.42	19.70
		1715 (132022)	19.49	19.70
	1RB-Low (0)	1775 (132622)	19.32	19.70
		1745 (132322)	19.32	19.70
		1715 (132022)	19.34	19.72
	25RB-High (25)	1775 (132622)	19.38	19.41
		1745 (132322)	19.34	19.36
		1715 (132022)	19.45	19.46
	25RB-Middle (12)	1775 (132622)	19.43	19.49
		1745 (132322)	19.37	19.39
		1715 (132022)	19.42	19.44
	25RB-Low (0)	1775 (132622)	19.43	19.44

		1745 (132322)	19.42	19.42
		1715 (132022)	19.41	19.41
	50RB (0)	1775 (132622)	19.41	19.44
		1745 (132322)	19.39	19.44
		1715 (132022)	19.44	19.46

15MHz	1RB-High (74)	1772.5 (132597)	19.31	19.66
		1745 (132322)	19.21	19.59
		1717.5 (132047)	19.30	19.66
	1RB-Middle (37)	1772.5 (132597)	19.35	19.77
		1745 (132322)	19.30	19.61
		1717.5 (132047)	19.38	19.74
	1RB-Low (0)	1772.5 (132597)	19.29	19.56
		1745 (132322)	19.32	19.59
		1717.5 (132047)	19.36	19.71
	36RB-High (38)	1772.5 (132597)	19.44	19.41
		1745 (132322)	19.34	19.32
		1717.5 (132047)	19.45	19.44
	36RB-Middle (19)	1772.5 (132597)	19.41	19.41
		1745 (132322)	19.40	19.42
		1717.5 (132047)	19.47	19.46

	36RB-Low (0)	1772.5 (132597)	19.42	19.39
		1745 (132322)	19.38	19.42
		1717.5 (132047)	19.45	19.42
	75RB (0)	1772.5 (132597)	19.39	19.41
		1745 (132322)	19.34	19.36
		1717.5 (132047)	19.44	19.44

20MHz	1RB-High (99)	1770 (132572)	19.12	19.66
		1745 (132322)	19.05	19.50
		1720 (132072)	19.18	19.74
	1RB-Middle (50)	1770 (132572)	19.44	20.01
		1745 (132322)	19.41	19.83
		1720 (132072)	19.54	20.08
	1RB-Low (0)	1770 (132572)	19.12	19.66
		1745 (132322)	19.18	19.62
		1720 (132072)	19.24	19.75
	50RB-High (50)	1770 (132572)	19.38	19.35
		1745 (132322)	19.25	19.25
		1720 (132072)	19.40	19.42
	50RB-Middle (25)	1770 (132572)	19.40	19.45
		1745 (132322)	19.40	19.40

		1720 (132072)	19.43	19.53
	50RB-Low (0)	1770 (132572)	19.41	19.43
		1745 (132322)	19.40	19.42
		1720 (132072)	19.42	19.45
	100RB (0)	1770 (132572)	19.40	19.38
		1745 (132322)	19.32	19.34
		1720 (132072)	19.44	19.46

11.3.2 Second antenna

LTEB2(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	16.39	16.80
		1880 (18900)	16.41	16.84
		1850.7 (18607)	16.39	16.79
	1RB-Middle (3)	1909.3 (19193)	16.52	16.77
		1880 (18900)	16.56	17.00
		1850.7 (18607)	16.55	16.84
	1RB-Low (0)	1909.3 (19193)	16.38	16.69
		1880 (18900)	16.39	16.84
		1850.7 (18607)	16.43	16.83
	3RB-High (3)	1909.3 (19193)	16.49	16.57

		1880 (18900)	16.50	16.53
		1850.7 (18607)	16.51	16.53
	3RB-Middle (1)	1909.3 (19193)	16.54	16.53
		1880 (18900)	16.57	16.65
		1850.7 (18607)	16.54	16.61
	3RB-Low (0)	1909.3 (19193)	16.50	16.56
		1880 (18900)	16.51	16.51
		1850.7 (18607)	16.52	16.55
	6RB (0)	1909.3 (19193)	16.49	16.60
		1880 (18900)	16.52	16.66
		1850.7 (18607)	16.53	16.68

3MHz	1RB-High (14)	1908.5 (19185)	16.47	16.87
		1880 (18900)	16.49	16.78
		1851.5 (18615)	16.48	16.78
	1RB-Middle (7)	1908.5 (19185)	16.59	16.96
		1880 (18900)	16.65	16.98
		1851.5 (18615)	16.65	17.10
	1RB-Low (0)	1908.5 (19185)	16.49	16.88
		1880 (18900)	16.49	16.89
		1851.5 (18615)	16.49	16.88

	8RB-High (7)	1908.5 (19185)	16.51	16.62
		1880 (18900)	16.51	16.63
		1851.5 (18615)	16.48	16.59
	8RB-Middle (4)	1908.5 (19185)	16.54	16.63
		1880 (18900)	16.55	16.65
		1851.5 (18615)	16.50	16.62
	8RB-Low (0)	1908.5 (19185)	16.51	16.58
		1880 (18900)	16.52	16.64
		1851.5 (18615)	16.54	16.63
	15RB (0)	1908.5 (19185)	16.50	16.57
		1880 (18900)	16.54	16.57
		1851.5 (18615)	16.50	16.56

5MHz	1RB-High (24)	1907.5 (19175)	16.36	16.74
		1880 (18900)	16.38	16.81
		1852.5 (18625)	16.37	16.80
	1RB-Middle (12)	1907.5 (19175)	16.60	16.95
		1880 (18900)	16.67	17.05
		1852.5 (18625)	16.59	17.07
	1RB-Low (0)	1907.5 (19175)	16.38	16.74
		1880 (18900)	16.38	16.83

		1852.5 (18625)	16.40	16.82
	12RB-High (13)	1907.5 (19175)	16.51	16.52
		1880 (18900)	16.53	16.57
		1852.5 (18625)	16.54	16.57
	12RB-Middle (6)	1907.5 (19175)	16.56	16.57
		1880 (18900)	16.59	16.62
		1852.5 (18625)	16.57	16.59
	12RB-Low (0)	1907.5 (19175)	16.56	16.62
		1880 (18900)	16.53	16.56
		1852.5 (18625)	16.54	16.57
	25RB (0)	1907.5 (19175)	16.56	16.60
		1880 (18900)	16.59	16.61
		1852.5 (18625)	16.57	16.59

10MHz	1RB-High (49)	1905 (19150)	16.44	16.70
		1880 (18900)	16.47	16.88
		1855 (18650)	16.42	16.84
	1RB-Middle (24)	1905 (19150)	16.61	16.98
		1880 (18900)	16.61	16.98
		1855 (18650)	16.60	16.90
	1RB-Low (0)	1905 (19150)	16.45	16.75

		1880 (18900)	16.45	16.90
		1855 (18650)	16.50	16.75
	25RB-High (25)	1905 (19150)	16.46	16.50
		1880 (18900)	16.53	16.55
		1855 (18650)	16.46	16.52
	25RB-Middle (12)	1905 (19150)	16.58	16.61
		1880 (18900)	16.57	16.62
		1855 (18650)	16.55	16.60
	25RB-Low (0)	1905 (19150)	16.56	16.61
		1880 (18900)	16.50	16.55
		1855 (18650)	16.48	16.53
	50RB (0)	1905 (19150)	16.51	16.55
		1880 (18900)	16.48	16.54
		1855 (18650)	16.48	16.52

15MHz	1RB-High (74)	1902.5 (19125)	16.35	16.77
		1880 (18900)	16.42	16.82
		1857.5 (18675)	16.37	16.75
	1RB-Middle (37)	1902.5 (19125)	16.49	16.80
		1880 (18900)	16.50	16.95
		1857.5 (18675)	16.47	16.79

	1RB-Low (0)	1902.5 (19125)	16.44	16.84
		1880 (18900)	16.39	16.71
		1857.5 (18675)	16.44	16.81
	36RB-High (38)	1902.5 (19125)	16.47	16.48
		1880 (18900)	16.52	16.54
		1857.5 (18675)	16.50	16.51
	36RB-Middle (19)	1902.5 (19125)	16.55	16.57
		1880 (18900)	16.53	16.51
		1857.5 (18675)	16.53	16.54
	36RB-Low (0)	1902.5 (19125)	16.57	16.60
		1880 (18900)	16.51	16.53
		1857.5 (18675)	16.50	16.51
	75RB (0)	1902.5 (19125)	16.51	16.54
		1880 (18900)	16.52	16.57
		1857.5 (18675)	16.49	16.53

20MHz	1RB-High (99)	1900 (19100)	15.56	16.05
		1880 (18900)	15.62	15.93
		1860 (18700)	15.56	15.82
	1RB-Middle (50)	1900 (19100)	15.86	16.29
		1880 (18900)	15.87	16.20

		1860 (18700)	15.89	16.32
	1RB-Low (0)	1900 (19100)	15.67	16.06
		1880 (18900)	15.56	16.03
		1860 (18700)	15.62	16.00
	50RB-High (50)	1900 (19100)	15.81	15.86
		1880 (18900)	15.90	15.91
		1860 (18700)	15.86	15.92
	50RB-Middle (25)	1900 (19100)	15.90	15.98
		1880 (18900)	15.89	15.93
		1860 (18700)	15.85	15.90
	50RB-Low (0)	1900 (19100)	16.02	16.10
		1880 (18900)	15.78	15.82
		1860 (18700)	15.87	15.92
	100RB (0)	1900 (19100)	15.91	15.94
		1880 (18900)	15.86	15.86
		1860 (18700)	15.86	15.90

LTEB2 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	19.40	19.72
		1880 (18900)	19.41	19.79

		1850.7 (18607)	19.39	19.75
	1RB-Middle (3)	1909.3 (19193)	19.51	19.76
		1880 (18900)	19.54	19.82
		1850.7 (18607)	19.55	19.92
	1RB-Low (0)	1909.3 (19193)	19.36	19.64
		1880 (18900)	19.43	19.67
		1850.7 (18607)	19.41	19.70
	3RB-High (3)	1909.3 (19193)	19.47	19.53
		1880 (18900)	19.56	19.54
		1850.7 (18607)	19.49	19.59
	3RB-Middle (1)	1909.3 (19193)	19.55	19.53
		1880 (18900)	19.55	19.61
		1850.7 (18607)	19.55	19.58
	3RB-Low (0)	1909.3 (19193)	19.49	19.42
		1880 (18900)	19.52	19.54
		1850.7 (18607)	19.50	19.55
	6RB (0)	1909.3 (19193)	19.48	19.61
		1880 (18900)	19.53	19.60
		1850.7 (18607)	19.49	19.58

3MHz	1RB-High (14)	1908.5 (19185)	19.50	19.81

		1880 (18900)	19.51	19.80
		1851.5 (18615)	19.47	19.80
	1RB-Middle (7)	1908.5 (19185)	19.60	19.89
		1880 (18900)	19.58	19.96
		1851.5 (18615)	19.63	19.93
	1RB-Low (0)	1908.5 (19185)	19.47	19.74
		1880 (18900)	19.49	19.81
		1851.5 (18615)	19.49	19.83
	8RB-High (7)	1908.5 (19185)	19.52	19.59
		1880 (18900)	19.54	19.61
		1851.5 (18615)	19.50	19.60
	8RB-Middle (4)	1908.5 (19185)	19.53	19.57
		1880 (18900)	19.55	19.64
		1851.5 (18615)	19.51	19.61
	8RB-Low (0)	1908.5 (19185)	19.51	19.58
		1880 (18900)	19.54	19.58
		1851.5 (18615)	19.53	19.60
	15RB (0)	1908.5 (19185)	19.49	19.52
		1880 (18900)	19.53	19.53
		1851.5 (18615)	19.49	19.51

5MHz	1RB-High (24)	1907.5 (19175)	19.38	19.74
		1880 (18900)	19.40	19.74
		1852.5 (18625)	19.36	19.72
	1RB-Middle (12)	1907.5 (19175)	19.70	20.00
		1880 (18900)	19.71	19.92
		1852.5 (18625)	19.63	19.92
	1RB-Low (0)	1907.5 (19175)	19.38	19.75
		1880 (18900)	19.40	19.76
		1852.5 (18625)	19.40	19.73
	12RB-High (13)	1907.5 (19175)	19.50	19.53
		1880 (18900)	19.56	19.53
		1852.5 (18625)	19.50	19.54
	12RB-Middle (6)	1907.5 (19175)	19.54	19.54
		1880 (18900)	19.59	19.59
		1852.5 (18625)	19.51	19.56
	12RB-Low (0)	1907.5 (19175)	19.57	19.57
		1880 (18900)	19.53	19.51
		1852.5 (18625)	19.49	19.50
	25RB (0)	1907.5 (19175)	19.56	19.58
		1880 (18900)	19.54	19.55

		1852.5 (18625)	19.53	19.54

10MHz	1RB-High (49)	1905 (19150)	19.47	19.79
		1880 (18900)	19.48	19.81
		1855 (18650)	19.43	19.72
	1RB-Middle (24)	1905 (19150)	19.58	19.85
		1880 (18900)	19.61	19.82
		1855 (18650)	19.60	20.01
	1RB-Low (0)	1905 (19150)	19.46	19.83
		1880 (18900)	19.47	19.77
		1855 (18650)	19.47	19.74
	25RB-High (25)	1905 (19150)	19.47	19.55
		1880 (18900)	19.51	19.53
		1855 (18650)	19.52	19.58
	25RB-Middle (12)	1905 (19150)	19.56	19.61
		1880 (18900)	19.56	19.56
		1855 (18650)	19.52	19.58
	25RB-Low (0)	1905 (19150)	19.56	19.58
		1880 (18900)	19.49	19.53
		1855 (18650)	19.46	19.52
	50RB (0)	1905 (19150)	19.50	19.60

		1880 (18900)	19.52	19.50
		1855 (18650)	19.48	19.55

15MHz	1RB-High (74)	1902.5 (19125)	19.38	19.71
		1880 (18900)	19.43	19.67
		1857.5 (18675)	19.45	19.80
	1RB-Middle (37)	1902.5 (19125)	19.47	19.90
		1880 (18900)	19.50	19.86
		1857.5 (18675)	19.44	19.92
	1RB-Low (0)	1902.5 (19125)	19.45	19.69
		1880 (18900)	19.38	19.77
		1857.5 (18675)	19.42	19.77
	36RB-High (38)	1902.5 (19125)	19.46	19.50
		1880 (18900)	19.51	19.51
		1857.5 (18675)	19.51	19.51
	36RB-Middle (19)	1902.5 (19125)	19.55	19.55
		1880 (18900)	19.55	19.52
		1857.5 (18675)	19.52	19.54
	36RB-Low (0)	1902.5 (19125)	19.57	19.57
		1880 (18900)	19.50	19.46
		1857.5 (18675)	19.49	19.49

	75RB (0)	1902.5 (19125)	19.49	19.56
		1880 (18900)	19.52	19.53
		1857.5 (18675)	19.46	19.53

20MHz	1RB-High (99)	1900 (19100)	19.20	19.45
		1880 (18900)	19.24	19.58
		1860 (18700)	19.18	19.56
	1RB-Middle (50)	1900 (19100)	19.50	19.90
		1880 (18900)	19.58	19.87
		1860 (18700)	19.48	19.92
	1RB-Low (0)	1900 (19100)	19.28	19.55
		1880 (18900)	19.21	19.53
		1860 (18700)	19.22	19.53
	50RB-High (50)	1900 (19100)	19.42	19.49
		1880 (18900)	19.48	19.53
		1860 (18700)	19.53	19.57
	50RB-Middle (25)	1900 (19100)	19.54	19.58
		1880 (18900)	19.48	19.50
		1860 (18700)	19.48	19.51
	50RB-Low (0)	1900 (19100)	19.66	19.66
		1880 (18900)	19.39	19.39

		1860 (18700)	19.45	19.47
	100RB (0)	1900 (19100)	19.53	19.55
		1880 (18900)	19.47	19.46
		1860 (18700)	19.48	19.49

LTEB2 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	15.83	16.20
		1880 (18900)	15.82	16.17
		1850.7 (18607)	15.84	16.19
	1RB-Middle (3)	1909.3 (19193)	15.94	16.31
		1880 (18900)	15.99	16.41
		1850.7 (18607)	15.97	16.30
	1RB-Low (0)	1909.3 (19193)	15.80	16.16
		1880 (18900)	15.85	16.15
		1850.7 (18607)	15.86	16.15
	3RB-High (3)	1909.3 (19193)	15.89	15.98
		1880 (18900)	15.92	15.98
		1850.7 (18607)	15.95	15.92
	3RB-Middle (1)	1909.3 (19193)	15.95	16.02
		1880 (18900)	15.97	16.04

		1850.7 (18607)	15.96	15.94
	3RB-Low (0)	1909.3 (19193)	15.94	15.99
		1880 (18900)	15.94	16.02
		1850.7 (18607)	15.95	16.01
	6RB (0)	1909.3 (19193)	15.91	16.09
		1880 (18900)	15.95	16.11
		1850.7 (18607)	15.92	16.08

3MHz	1RB-High (14)	1908.5 (19185)	15.90	16.32
		1880 (18900)	15.90	16.34
		1851.5 (18615)	15.89	16.21
	1RB-Middle (7)	1908.5 (19185)	16.04	16.38
		1880 (18900)	16.06	16.36
		1851.5 (18615)	16.09	16.51
	1RB-Low (0)	1908.5 (19185)	15.92	16.20
		1880 (18900)	15.93	16.21
		1851.5 (18615)	15.94	16.33
	8RB-High (7)	1908.5 (19185)	15.92	16.05
		1880 (18900)	15.95	16.07
		1851.5 (18615)	15.93	16.04
	8RB-Middle (4)	1908.5 (19185)	15.96	16.07

		1880 (18900)	15.98	16.10
		1851.5 (18615)	15.93	16.06
	8RB-Low (0)	1908.5 (19185)	15.95	16.06
		1880 (18900)	15.95	16.07
		1851.5 (18615)	15.95	16.07
	15RB (0)	1908.5 (19185)	15.91	15.99
		1880 (18900)	15.96	16.00
		1851.5 (18615)	15.91	15.98

5MHz	1RB-High (24)	1907.5 (19175)	15.78	16.19
		1880 (18900)	15.83	16.13
		1852.5 (18625)	15.78	16.14
	1RB-Middle (12)	1907.5 (19175)	16.10	16.33
		1880 (18900)	16.10	16.45
		1852.5 (18625)	16.05	16.43
	1RB-Low (0)	1907.5 (19175)	15.79	16.14
		1880 (18900)	15.85	16.16
		1852.5 (18625)	15.83	16.18
	12RB-High (13)	1907.5 (19175)	15.93	15.98
		1880 (18900)	15.97	16.01
		1852.5 (18625)	15.96	16.00

	12RB-Middle (6)	1907.5 (19175)	16.00	16.03
		1880 (18900)	16.02	16.05
		1852.5 (18625)	15.98	16.01
	12RB-Low (0)	1907.5 (19175)	15.98	16.02
		1880 (18900)	15.98	16.02
		1852.5 (18625)	15.96	16.00
	25RB (0)	1907.5 (19175)	15.99	16.02
		1880 (18900)	15.96	16.00
		1852.5 (18625)	15.99	16.02

10MHz	1RB-High (49)	1905 (19150)	15.87	16.31
		1880 (18900)	15.92	16.27
		1855 (18650)	15.88	16.23
	1RB-Middle (24)	1905 (19150)	16.05	16.42
		1880 (18900)	16.06	16.48
		1855 (18650)	15.99	16.33
	1RB-Low (0)	1905 (19150)	15.91	16.20
		1880 (18900)	15.88	16.16
		1855 (18650)	15.92	16.28
	25RB-High (25)	1905 (19150)	15.87	15.90
		1880 (18900)	15.95	16.00

		1855 (18650)	15.89	15.94
	25RB-Middle (12)	1905 (19150)	15.99	16.03
		1880 (18900)	15.97	16.05
		1855 (18650)	15.96	16.03
	25RB-Low (0)	1905 (19150)	15.97	16.01
		1880 (18900)	15.92	15.98
		1855 (18650)	15.92	15.97
	50RB (0)	1905 (19150)	15.93	15.97
		1880 (18900)	15.94	15.98
		1855 (18650)	15.89	15.96

15MHz	1RB-High (74)	1902.5 (19125)	15.81	16.09
		1880 (18900)	15.87	16.12
		1857.5 (18675)	15.83	16.14
	1RB-Middle (37)	1902.5 (19125)	15.89	16.27
		1880 (18900)	15.96	16.30
		1857.5 (18675)	15.90	16.35
	1RB-Low (0)	1902.5 (19125)	15.89	16.26
		1880 (18900)	15.85	16.15
		1857.5 (18675)	15.89	16.29
	36RB-High (38)	1902.5 (19125)	15.90	15.92

		1880 (18900)	15.94	15.97
		1857.5 (18675)	15.90	15.95
	36RB-Middle (19)	1902.5 (19125)	15.98	15.99
		1880 (18900)	15.98	15.99
		1857.5 (18675)	15.96	15.98
	36RB-Low (0)	1902.5 (19125)	16.02	16.01
		1880 (18900)	15.92	15.95
		1857.5 (18675)	15.95	15.94
	75RB (0)	1902.5 (19125)	15.94	15.98
		1880 (18900)	15.96	15.98
		1857.5 (18675)	15.90	15.95

20MHz	1RB-High (99)	1900 (19100)	15.68	16.19
		1880 (18900)	15.74	16.21
		1860 (18700)	15.68	16.12
	1RB-Middle (50)	1900 (19100)	16.03	16.45
		1880 (18900)	16.08	16.36
		1860 (18700)	15.98	16.40
	1RB-Low (0)	1900 (19100)	15.84	16.20
		1880 (18900)	15.72	16.14
		1860 (18700)	15.74	16.05

	50RB-High (50)	1900 (19100)	15.94	15.99
		1880 (18900)	16.02	16.05
		1860 (18700)	16.02	16.07
	50RB-Middle (25)	1900 (19100)	16.06	16.09
		1880 (18900)	16.01	16.05
		1860 (18700)	15.98	16.05
	50RB-Low (0)	1900 (19100)	16.15	16.20
		1880 (18900)	15.89	15.94
		1860 (18700)	16.00	16.04
	100RB (0)	1900 (19100)	16.06	16.08
		1880 (18900)	15.97	16.00
		1860 (18700)	15.98	16.02

LTEB4(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1754.3 (20393)	18.26	18.69
		1732.5 (20175)	18.29	18.62
		1710.7 (19957)	18.28	18.60
	1RB-Middle (3)	1754.3 (20393)	18.31	18.74
		1732.5 (20175)	18.39	18.79
		1710.7 (19957)	18.41	18.76

	1RB-Low (0)	1754.3 (20393)	18.23	18.69
		1732.5 (20175)	18.27	18.62
		1710.7 (19957)	18.26	18.58
	3RB-High (3)	1754.3 (20393)	18.33	18.38
		1732.5 (20175)	18.38	18.35
		1710.7 (19957)	18.40	18.36
	3RB-Middle (1)	1754.3 (20393)	18.38	18.43
		1732.5 (20175)	18.40	18.44
		1710.7 (19957)	18.44	18.40
	3RB-Low (0)	1754.3 (20393)	18.30	18.29
		1732.5 (20175)	18.40	18.42
		1710.7 (19957)	18.40	18.34
	6RB (0)	1754.3 (20393)	18.32	18.45
		1732.5 (20175)	18.37	18.50
		1710.7 (19957)	18.39	18.53

3MHz	1RB-High (14)	1753.5 (20385)	18.32	18.67
		1732.5 (20175)	18.33	18.62
		1711.5 (19965)	18.38	18.80
	1RB-Middle (7)	1753.5 (20385)	18.45	18.75
		1732.5 (20175)	18.47	18.86

		1711.5 (19965)	18.57	18.81
	1RB-Low (0)	1753.5 (20385)	18.32	18.70
		1732.5 (20175)	18.36	18.67
		1711.5 (19965)	18.36	18.79
	8RB-High (7)	1753.5 (20385)	18.33	18.45
		1732.5 (20175)	18.38	18.49
		1711.5 (19965)	18.41	18.53
	8RB-Middle (4)	1753.5 (20385)	18.36	18.49
		1732.5 (20175)	18.41	18.51
		1711.5 (19965)	18.42	18.51
	8RB-Low (0)	1753.5 (20385)	18.34	18.46
		1732.5 (20175)	18.37	18.50
		1711.5 (19965)	18.39	18.49
	15RB (0)	1753.5 (20385)	18.33	18.38
		1732.5 (20175)	18.38	18.42
		1711.5 (19965)	18.39	18.46

5MHz	1RB-High (24)	1752.5 (20375)	18.25	18.68
		1732.5 (20175)	18.27	18.72
		1712.5 (19975)	18.29	18.68
	1RB-Middle (12)	1752.5 (20375)	18.40	18.91

		1732.5 (20175)	18.49	18.89
		1712.5 (19975)	18.52	18.80
	1RB-Low (0)	1752.5 (20375)	18.22	18.56
		1732.5 (20175)	18.28	18.62
		1712.5 (19975)	18.30	18.67
	12RB-High (13)	1752.5 (20375)	18.33	18.38
		1732.5 (20175)	18.38	18.44
		1712.5 (19975)	18.42	18.45
	12RB-Middle (6)	1752.5 (20375)	18.39	18.45
		1732.5 (20175)	18.42	18.46
		1712.5 (19975)	18.45	18.49
	12RB-Low (0)	1752.5 (20375)	18.38	18.44
		1732.5 (20175)	18.37	18.40
		1712.5 (19975)	18.38	18.42
	25RB (0)	1752.5 (20375)	18.38	18.42
		1732.5 (20175)	18.41	18.45
		1712.5 (19975)	18.39	18.47

10MHz	1RB-High (49)	1750 (20350)	18.37	18.72
		1732.5 (20175)	18.38	18.78
		1715 (20000)	18.40	18.77

	1RB-Middle (24)	1750 (20350)	18.45	18.83
		1732.5 (20175)	18.51	18.95
		1715 (20000)	18.50	18.96
	1RB-Low (0)	1750 (20350)	18.37	18.70
		1732.5 (20175)	18.41	18.79
		1715 (20000)	18.40	18.69
	25RB-High (25)	1750 (20350)	18.35	18.46
		1732.5 (20175)	18.44	18.55
		1715 (20000)	18.52	18.57
	25RB-Middle (12)	1750 (20350)	18.42	18.45
		1732.5 (20175)	18.45	18.52
		1715 (20000)	18.47	18.52
	25RB-Low (0)	1750 (20350)	18.44	18.50
		1732.5 (20175)	18.43	18.50
		1715 (20000)	18.43	18.47
	50RB (0)	1750 (20350)	18.37	18.46
		1732.5 (20175)	18.42	18.55
		1715 (20000)	18.45	18.52

15MHz	1RB-High (74)	1747.5 (20325)	18.26	18.64
		1732.5 (20175)	18.25	18.56

		1717.5 (20025)	18.30	18.70
	1RB-Middle (37)	1747.5 (20325)	18.31	18.63
		1732.5 (20175)	18.39	18.80
		1717.5 (20025)	18.43	18.69
	1RB-Low (0)	1747.5 (20325)	18.30	18.62
		1732.5 (20175)	18.34	18.78
		1717.5 (20025)	18.31	18.67
	36RB-High (38)	1747.5 (20325)	18.33	18.37
		1732.5 (20175)	18.44	18.46
		1717.5 (20025)	18.46	18.48
	36RB-Middle (19)	1747.5 (20325)	18.39	18.43
		1732.5 (20175)	18.45	18.46
		1717.5 (20025)	18.51	18.51
	36RB-Low (0)	1747.5 (20325)	18.45	18.42
		1732.5 (20175)	18.43	18.48
		1717.5 (20025)	18.43	18.43
	75RB (0)	1747.5 (20325)	18.40	18.45
		1732.5 (20175)	18.43	18.49
		1717.5 (20025)	18.47	18.51

20MHz	1RB-High (99)	1745 (20300)	17.59	17.84

		1732.5 (20175)	17.54	18.29
		1720 (20050)	17.53	18.36
	1RB-Middle (50)	1745 (20300)	17.81	18.27
		1732.5 (20175)	17.83	18.64
		1720 (20050)	17.91	18.74
	1RB-Low (0)	1745 (20300)	17.54	18.00
		1732.5 (20175)	17.57	18.35
		1720 (20050)	17.55	18.27
	50RB-High (50)	1745 (20300)	17.66	17.69
		1732.5 (20175)	17.85	18.34
		1720 (20050)	17.84	18.36
	50RB-Middle (25)	1745 (20300)	17.83	17.84
		1732.5 (20175)	17.82	18.33
		1720 (20050)	17.85	18.35
	50RB-Low (0)	1745 (20300)	17.85	17.85
		1732.5 (20175)	17.81	18.29
		1720 (20050)	17.79	18.28
	100RB (0)	1745 (20300)	17.77	17.76
		1732.5 (20175)	17.84	18.32
		1720 (20050)	17.84	18.33

LTEB4 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1754.3 (20393)	21.24	21.49
		1732.5 (20175)	21.28	21.54
		1710.7 (19957)	21.31	21.50
	1RB-Middle (3)	1754.3 (20393)	21.34	21.71
		1732.5 (20175)	21.36	21.69
		1710.7 (19957)	21.41	21.68
	1RB-Low (0)	1754.3 (20393)	21.26	21.56
		1732.5 (20175)	21.31	21.51
		1710.7 (19957)	21.32	21.63
	3RB-High (3)	1754.3 (20393)	21.34	21.33
		1732.5 (20175)	21.39	21.42
		1710.7 (19957)	21.40	21.40
	3RB-Middle (1)	1754.3 (20393)	21.38	21.36
		1732.5 (20175)	21.40	21.44
		1710.7 (19957)	21.43	21.42
	3RB-Low (0)	1754.3 (20393)	21.34	21.31
		1732.5 (20175)	21.37	21.36
		1710.7 (19957)	21.40	21.39
	6RB (0)	1754.3 (20393)	21.33	21.43

		1732.5 (20175)	21.36	21.45
		1710.7 (19957)	21.40	21.45

3MHz	1RB-High (14)	1753.5 (20385)	21.36	21.51
		1732.5 (20175)	21.37	21.66
		1711.5 (19965)	21.38	21.68
	1RB-Middle (7)	1753.5 (20385)	21.47	21.77
		1732.5 (20175)	21.59	21.75
		1711.5 (19965)	21.47	21.80
	1RB-Low (0)	1753.5 (20385)	21.33	21.66
		1732.5 (20175)	21.37	21.58
		1711.5 (19965)	21.36	21.67
	8RB-High (7)	1753.5 (20385)	21.34	21.40
		1732.5 (20175)	21.39	21.43
		1711.5 (19965)	21.38	21.44
	8RB-Middle (4)	1753.5 (20385)	21.36	21.46
		1732.5 (20175)	21.43	21.48
		1711.5 (19965)	21.44	21.45
	8RB-Low (0)	1753.5 (20385)	21.36	21.43
		1732.5 (20175)	21.37	21.45
		1711.5 (19965)	21.39	21.46

	15RB (0)	1753.5 (20385)	21.33	21.36
		1732.5 (20175)	21.37	21.37
		1711.5 (19965)	21.38	21.40

5MHz	1RB-High (24)	1752.5 (20375)	21.27	21.57
		1732.5 (20175)	21.27	21.64
		1712.5 (19975)	21.29	21.52
	1RB-Middle (12)	1752.5 (20375)	21.44	21.80
		1732.5 (20175)	21.54	21.87
		1712.5 (19975)	21.47	21.82
	1RB-Low (0)	1752.5 (20375)	21.25	21.50
		1732.5 (20175)	21.28	21.54
		1712.5 (19975)	21.28	21.53
	12RB-High (13)	1752.5 (20375)	21.34	21.34
		1732.5 (20175)	21.41	21.39
		1712.5 (19975)	21.43	21.40
	12RB-Middle (6)	1752.5 (20375)	21.42	21.41
		1732.5 (20175)	21.45	21.43
		1712.5 (19975)	21.45	21.46
	12RB-Low (0)	1752.5 (20375)	21.40	21.35
		1732.5 (20175)	21.37	21.38

		1712.5 (19975)	21.36	21.37
	25RB (0)	1752.5 (20375)	21.37	21.39
		1732.5 (20175)	21.39	21.41
		1712.5 (19975)	21.41	21.42

10MHz	1RB-High (49)	1750 (20350)	21.39	21.62
		1732.5 (20175)	21.36	21.72
		1715 (20000)	21.40	21.59
	1RB-Middle (24)	1750 (20350)	21.45	21.76
		1732.5 (20175)	21.53	21.75
		1715 (20000)	21.52	21.89
	1RB-Low (0)	1750 (20350)	21.35	21.66
		1732.5 (20175)	21.43	21.77
		1715 (20000)	21.41	21.71
	25RB-High (25)	1750 (20350)	21.42	21.40
		1732.5 (20175)	21.50	21.48
		1715 (20000)	21.53	21.54
	25RB-Middle (12)	1750 (20350)	21.41	21.43
		1732.5 (20175)	21.45	21.49
		1715 (20000)	21.48	21.47
	25RB-Low (0)	1750 (20350)	21.46	21.48

		1732.5 (20175)	21.46	21.46
		1715 (20000)	21.44	21.44
	50RB (0)	1750 (20350)	21.44	21.42
		1732.5 (20175)	21.49	21.49
		1715 (20000)	21.48	21.50

15MHz	1RB-High (74)	1747.5 (20325)	21.25	21.54
		1732.5 (20175)	21.26	21.60
		1717.5 (20025)	21.31	21.68
	1RB-Middle (37)	1747.5 (20325)	21.36	21.55
		1732.5 (20175)	21.44	21.63
		1717.5 (20025)	21.45	21.61
	1RB-Low (0)	1747.5 (20325)	21.33	21.58
		1732.5 (20175)	21.35	21.63
		1717.5 (20025)	21.33	21.61
	36RB-High (38)	1747.5 (20325)	21.36	21.32
		1732.5 (20175)	21.47	21.46
		1717.5 (20025)	21.50	21.44
	36RB-Middle (19)	1747.5 (20325)	21.42	21.37
		1732.5 (20175)	21.46	21.46
		1717.5 (20025)	21.49	21.49

	36RB-Low (0)	1747.5 (20325)	21.46	21.45
		1732.5 (20175)	21.46	21.43
		1717.5 (20025)	21.43	21.40
	75RB (0)	1747.5 (20325)	21.44	21.43
		1732.5 (20175)	21.46	21.46
		1717.5 (20025)	21.48	21.48

20MHz	1RB-High (99)	1745 (20300)	21.02	21.30
		1732.5 (20175)	21.04	21.36
		1720 (20050)	21.08	21.36
	1RB-Middle (50)	1745 (20300)	21.37	21.73
		1732.5 (20175)	21.39	21.71
		1720 (20050)	21.52	21.75
	1RB-Low (0)	1745 (20300)	21.11	21.49
		1732.5 (20175)	21.12	21.46
		1720 (20050)	21.16	21.35
	50RB-High (50)	1745 (20300)	21.26	21.25
		1732.5 (20175)	21.42	21.40
		1720 (20050)	21.39	21.40
	50RB-Middle (25)	1745 (20300)	21.39	21.39
		1732.5 (20175)	21.39	21.44

		1720 (20050)	21.43	21.47
	50RB-Low (0)	1745 (20300)	21.37	21.39
		1732.5 (20175)	21.32	21.36
		1720 (20050)	21.32	21.34
	100RB (0)	1745 (20300)	21.35	21.29
		1732.5 (20175)	21.38	21.36
		1720 (20050)	21.39	21.38

LTEB4 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1754.3 (20393)	17.72	18.04
		1732.5 (20175)	17.77	18.02
		1710.7 (19957)	17.75	18.08
	1RB-Middle (3)	1754.3 (20393)	17.83	18.12
		1732.5 (20175)	17.85	18.21
		1710.7 (19957)	17.91	18.34
	1RB-Low (0)	1754.3 (20393)	17.70	18.07
		1732.5 (20175)	17.74	18.21
		1710.7 (19957)	17.76	18.11
	3RB-High (3)	1754.3 (20393)	17.79	17.88
		1732.5 (20175)	17.84	17.86

		1710.7 (19957)	17.86	17.88
	3RB-Middle (1)	1754.3 (20393)	17.88	17.85
		1732.5 (20175)	17.89	17.93
		1710.7 (19957)	17.89	18.01
	3RB-Low (0)	1754.3 (20393)	17.80	17.85
		1732.5 (20175)	17.85	17.84
		1710.7 (19957)	17.88	17.87
	6RB (0)	1754.3 (20393)	17.80	17.94
		1732.5 (20175)	17.84	17.92
		1710.7 (19957)	17.84	18.02

3MHz	1RB-High (14)	1753.5 (20385)	17.80	18.08
		1732.5 (20175)	17.83	18.22
		1711.5 (19965)	17.84	18.24
	1RB-Middle (7)	1753.5 (20385)	17.93	18.22
		1732.5 (20175)	17.94	18.42
		1711.5 (19965)	17.99	18.29
	1RB-Low (0)	1753.5 (20385)	17.79	18.13
		1732.5 (20175)	17.85	18.30
		1711.5 (19965)	17.84	18.24
	8RB-High (7)	1753.5 (20385)	17.82	17.90

		1732.5 (20175)	17.85	17.98
		1711.5 (19965)	17.87	17.97
	8RB-Middle (4)	1753.5 (20385)	17.84	17.94
		1732.5 (20175)	17.87	17.99
		1711.5 (19965)	17.88	18.00
	8RB-Low (0)	1753.5 (20385)	17.84	17.92
		1732.5 (20175)	17.86	17.99
		1711.5 (19965)	17.87	17.95
	15RB (0)	1753.5 (20385)	17.81	17.84
		1732.5 (20175)	17.85	17.91
		1711.5 (19965)	17.87	17.92

5MHz	1RB-High (24)	1752.5 (20375)	17.75	18.06
		1732.5 (20175)	17.74	18.20
		1712.5 (19975)	17.75	18.13
	1RB-Middle (12)	1752.5 (20375)	17.97	18.33
		1732.5 (20175)	17.98	18.44
		1712.5 (19975)	18.06	18.33
	1RB-Low (0)	1752.5 (20375)	17.71	18.13
		1732.5 (20175)	17.77	18.19
		1712.5 (19975)	17.79	18.24

	12RB-High (13)	1752.5 (20375)	17.79	17.84
		1732.5 (20175)	17.88	17.90
		1712.5 (19975)	17.88	17.94
	12RB-Middle (6)	1752.5 (20375)	17.87	17.90
		1732.5 (20175)	17.90	17.95
		1712.5 (19975)	17.93	17.98
	12RB-Low (0)	1752.5 (20375)	17.87	17.90
		1732.5 (20175)	17.87	17.88
		1712.5 (19975)	17.83	17.84
	25RB (0)	1752.5 (20375)	17.83	17.89
		1732.5 (20175)	17.87	17.92
		1712.5 (19975)	17.89	17.93

10MHz	1RB-High (49)	1750 (20350)	17.81	18.09
		1732.5 (20175)	17.83	18.10
		1715 (20000)	17.92	18.30
	1RB-Middle (24)	1750 (20350)	17.90	18.16
		1732.5 (20175)	17.94	18.23
		1715 (20000)	17.99	18.36
	1RB-Low (0)	1750 (20350)	17.83	18.26
		1732.5 (20175)	17.87	18.30

		1715 (20000)	17.88	18.30
	25RB-High (25)	1750 (20350)	17.81	17.85
		1732.5 (20175)	17.90	17.96
		1715 (20000)	17.92	18.05
	25RB-Middle (12)	1750 (20350)	17.87	17.92
		1732.5 (20175)	17.90	17.96
		1715 (20000)	17.94	17.98
	25RB-Low (0)	1750 (20350)	17.92	17.93
		1732.5 (20175)	17.89	17.92
		1715 (20000)	17.87	17.95
	50RB (0)	1750 (20350)	17.85	17.86
		1732.5 (20175)	17.91	17.92
		1715 (20000)	17.88	17.98

15MHz	1RB-High (74)	1747.5 (20325)	17.69	18.18
		1732.5 (20175)	17.75	18.02
		1717.5 (20025)	17.79	18.18
	1RB-Middle (37)	1747.5 (20325)	17.82	18.13
		1732.5 (20175)	17.88	18.21
		1717.5 (20025)	17.92	18.16
	1RB-Low (0)	1747.5 (20325)	17.75	18.15

		1732.5 (20175)	17.80	18.09
		1717.5 (20025)	17.79	18.22
	36RB-High (38)	1747.5 (20325)	17.79	17.80
		1732.5 (20175)	17.90	17.92
		1717.5 (20025)	17.90	17.92
	36RB-Middle (19)	1747.5 (20325)	17.87	17.87
		1732.5 (20175)	17.91	17.93
		1717.5 (20025)	17.96	17.97
	36RB-Low (0)	1747.5 (20325)	17.91	17.95
		1732.5 (20175)	17.90	17.92
		1717.5 (20025)	17.88	17.91
	75RB (0)	1747.5 (20325)	17.87	17.88
		1732.5 (20175)	17.89	17.93
		1717.5 (20025)	17.92	17.98

20MHz	1RB-High (99)	1745 (20300)	17.60	18.05
		1732.5 (20175)	17.57	17.93
		1720 (20050)	17.63	17.35
	1RB-Middle (50)	1745 (20300)	17.96	18.26
		1732.5 (20175)	17.96	18.24
		1720 (20050)	18.00	17.69

	1RB-Low (0)	1745 (20300)	17.64	18.11
		1732.5 (20175)	17.67	18.08
		1720 (20050)	17.65	17.41
	50RB-High (50)	1745 (20300)	17.78	17.84
		1732.5 (20175)	17.95	17.98
		1720 (20050)	17.97	17.43
	50RB-Middle (25)	1745 (20300)	17.92	17.96
		1732.5 (20175)	17.93	17.99
		1720 (20050)	17.97	17.48
	50RB-Low (0)	1745 (20300)	17.94	17.97
		1732.5 (20175)	17.93	17.95
		1720 (20050)	17.90	17.32
	100RB (0)	1745 (20300)	17.89	17.91
		1732.5 (20175)	17.95	17.97
		1720 (20050)	17.95	17.37

LTEB7(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2567.5 (21425)	20.97	21.22
		2535 (21100)	20.86	21.14
		2502.5 (20775)	20.91	21.24

	1RB-Middle (12)	2567.5 (21425)	21.20	21.41
		2535 (21100)	21.10	21.25
		2502.5 (20775)	21.19	21.49
	1RB-Low (0)	2567.5 (21425)	21.00	21.22
		2535 (21100)	20.88	21.06
		2502.5 (20775)	20.98	21.31
	12RB-High (13)	2567.5 (21425)	21.10	21.03
		2535 (21100)	21.01	20.97
		2502.5 (20775)	21.03	21.00
	12RB-Middle (6)	2567.5 (21425)	21.17	21.11
		2535 (21100)	21.05	21.04
		2502.5 (20775)	21.08	21.06
	12RB-Low (0)	2567.5 (21425)	21.12	21.10
		2535 (21100)	20.99	20.96
		2502.5 (20775)	21.02	20.99
	25RB (0)	2567.5 (21425)	21.16	21.10
		2535 (21100)	21.04	21.02
		2502.5 (20775)	21.08	21.04

10MHz	1RB-High (49)	2565 (21400)	21.05	21.22
		2535 (21100)	20.96	21.20

		2505 (20800)	20.96	21.31
	1RB-Middle (24)	2565 (21400)	21.18	21.40
		2535 (21100)	21.10	21.36
		2505 (20800)	21.10	21.40
	1RB-Low (0)	2565 (21400)	21.09	21.40
		2535 (21100)	21.00	21.30
		2505 (20800)	21.00	21.35
	25RB-High (25)	2565 (21400)	21.21	21.14
		2535 (21100)	21.09	21.06
		2505 (20800)	21.09	21.10
	25RB-Middle (12)	2565 (21400)	21.18	21.15
		2535 (21100)	21.07	21.06
		2505 (20800)	21.06	21.08
	25RB-Low (0)	2565 (21400)	21.16	21.14
		2535 (21100)	21.10	21.07
		2505 (20800)	21.06	21.09
	50RB (0)	2565 (21400)	21.18	21.16
		2535 (21100)	21.10	21.11
		2505 (20800)	21.05	21.06

15MHz	1RB-High (74)	2562.5 (21375)	21.01	21.15

		2535 (21100)	20.93	21.19
		2507.5 (20825)	20.90	21.14
	1RB-Middle (37)	2562.5 (21375)	21.10	21.30
		2535 (21100)	20.98	21.25
		2507.5 (20825)	20.99	21.36
	1RB-Low (0)	2562.5 (21375)	21.04	21.31
		2535 (21100)	20.94	21.29
		2507.5 (20825)	20.98	21.19
	36RB-High (38)	2562.5 (21375)	21.20	21.15
		2535 (21100)	21.08	21.01
		2507.5 (20825)	21.09	21.05
	36RB-Middle (19)	2562.5 (21375)	21.19	21.17
		2535 (21100)	21.13	21.03
		2507.5 (20825)	21.08	21.04
	36RB-Low (0)	2562.5 (21375)	21.17	21.13
		2535 (21100)	21.08	21.05
		2507.5 (20825)	21.07	21.04
	75RB (0)	2562.5 (21375)	21.17	21.19
		2535 (21100)	21.08	21.05
		2507.5 (20825)	21.05	21.05

20MHz	1RB-High (99)	2560 (21350)	21.05	21.20
		2535 (21100)	20.96	21.24
		2510 (20850)	20.92	21.27
	1RB-Middle (50)	2560 (21350)	21.36	21.60
		2535 (21100)	21.25	21.55
		2510 (20850)	21.31	21.48
	1RB-Low (0)	2560 (21350)	21.10	21.32
		2535 (21100)	21.05	21.33
		2510 (20850)	21.03	21.26
	50RB-High (50)	2560 (21350)	21.37	21.33
		2535 (21100)	21.24	21.18
		2510 (20850)	21.27	21.28
	50RB-Middle (25)	2560 (21350)	21.36	21.33
		2535 (21100)	21.30	21.27
		2510 (20850)	21.26	21.26
	50RB-Low (0)	2560 (21350)	21.28	21.30
		2535 (21100)	21.20	21.18
		2510 (20850)	21.18	21.18
	100RB (0)	2560 (21350)	21.36	21.32
		2535 (21100)	21.22	21.19

		2510 (20850)	21.21	21.21

LTEB7 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2567.5 (21425)	20.26	20.47
		2535 (21100)	20.16	20.41
		2502.5 (20775)	20.22	20.57
	1RB-Middle (12)	2567.5 (21425)	20.53	20.76
		2535 (21100)	20.36	20.65
		2502.5 (20775)	20.37	20.71
	1RB-Low (0)	2567.5 (21425)	20.25	20.51
		2535 (21100)	20.18	20.50
		2502.5 (20775)	20.24	20.52
	12RB-High (13)	2567.5 (21425)	20.38	20.37
		2535 (21100)	20.28	20.27
		2502.5 (20775)	20.33	20.34
	12RB-Middle (6)	2567.5 (21425)	20.43	20.44
		2535 (21100)	20.34	20.32
		2502.5 (20775)	20.38	20.40
	12RB-Low (0)	2567.5 (21425)	20.36	20.35
		2535 (21100)	20.27	20.25

		2502.5 (20775)	20.32	20.32
	25RB (0)	2567.5 (21425)	20.40	20.41
		2535 (21100)	20.30	20.30
		2502.5 (20775)	20.36	20.38

10MHz	1RB-High (49)	2565 (21400)	20.38	20.66
		2535 (21100)	20.29	20.61
		2505 (20800)	20.30	20.67
	1RB-Middle (24)	2565 (21400)	20.55	20.75
		2535 (21100)	20.44	20.79
		2505 (20800)	20.43	20.81
	1RB-Low (0)	2565 (21400)	20.41	20.73
		2535 (21100)	20.34	20.63
		2505 (20800)	20.35	20.73
	25RB-High (25)	2565 (21400)	20.56	20.53
		2535 (21100)	20.42	20.36
		2505 (20800)	20.46	20.43
	25RB-Middle (12)	2565 (21400)	20.52	20.49
		2535 (21100)	20.37	20.36
		2505 (20800)	20.41	20.42
	25RB-Low (0)	2565 (21400)	20.48	20.46

		2535 (21100)	20.40	20.40
		2505 (20800)	20.40	20.42
	50RB (0)	2565 (21400)	20.51	20.50
		2535 (21100)	20.44	20.43
		2505 (20800)	20.43	20.41

15MHz	1RB-High (74)	2562.5 (21375)	20.42	20.70
		2535 (21100)	20.34	20.53
		2507.5 (20825)	20.31	20.55
	1RB-Middle (37)	2562.5 (21375)	20.54	20.75
		2535 (21100)	20.43	20.74
		2507.5 (20825)	20.41	20.67
	1RB-Low (0)	2562.5 (21375)	20.45	20.79
		2535 (21100)	20.37	20.65
		2507.5 (20825)	20.41	20.63
	36RB-High (38)	2562.5 (21375)	20.65	20.53
		2535 (21100)	20.44	20.39
		2507.5 (20825)	20.51	20.47
	36RB-Middle (19)	2562.5 (21375)	20.61	20.52
		2535 (21100)	20.50	20.43
		2507.5 (20825)	20.49	20.45

	36RB-Low (0)	2562.5 (21375)	20.58	20.52
		2535 (21100)	20.49	20.42
		2507.5 (20825)	20.51	20.44
	75RB (0)	2562.5 (21375)	20.60	20.55
		2535 (21100)	20.45	20.41
		2507.5 (20825)	20.48	20.42

20MHz	1RB-High (99)	2560 (21350)	19.91	20.25
		2535 (21100)	19.85	20.22
		2510 (20850)	19.84	20.20
	1RB-Middle (50)	2560 (21350)	20.22	20.58
		2535 (21100)	20.18	20.56
		2510 (20850)	20.20	20.59
	1RB-Low (0)	2560 (21350)	20.00	20.41
		2535 (21100)	19.92	20.24
		2510 (20850)	19.97	20.29
	50RB-High (50)	2560 (21350)	20.30	20.28
		2535 (21100)	20.17	20.15
		2510 (20850)	20.27	20.22
	50RB-Middle (25)	2560 (21350)	20.28	20.30
		2535 (21100)	20.24	20.22

		2510 (20850)	20.20	20.24
	50RB-Low (0)	2560 (21350)	20.23	20.24
		2535 (21100)	20.15	20.14
		2510 (20850)	20.12	20.17
	100RB (0)	2560 (21350)	20.27	20.25
		2535 (21100)	20.17	20.16
		2510 (20850)	20.17	20.18

LTEB7 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2567.5 (21425)	17.46	17.86
		2535 (21100)	17.39	17.66
		2502.5 (20775)	17.40	17.76
	1RB-Middle (12)	2567.5 (21425)	17.82	18.14
		2535 (21100)	17.53	17.96
		2502.5 (20775)	17.62	17.98
	1RB-Low (0)	2567.5 (21425)	17.50	17.86
		2535 (21100)	17.36	17.73
		2502.5 (20775)	17.45	17.68
	12RB-High (13)	2567.5 (21425)	17.61	17.58
		2535 (21100)	17.48	17.50

		2502.5 (20775)	17.50	17.54
	12RB-Middle (6)	2567.5 (21425)	17.68	17.68
		2535 (21100)	17.53	17.58
		2502.5 (20775)	17.59	17.58
	12RB-Low (0)	2567.5 (21425)	17.63	17.63
		2535 (21100)	17.49	17.54
		2502.5 (20775)	17.54	17.55
	25RB (0)	2567.5 (21425)	17.63	17.68
		2535 (21100)	17.51	17.53
		2502.5 (20775)	17.56	17.58

10MHz	1RB-High (49)	2565 (21400)	17.58	17.79
		2535 (21100)	17.48	17.87
		2505 (20800)	17.47	17.88
	1RB-Middle (24)	2565 (21400)	17.71	18.04
		2535 (21100)	17.60	18.00
		2505 (20800)	17.59	18.05
	1RB-Low (0)	2565 (21400)	17.59	17.96
		2535 (21100)	17.49	17.75
		2505 (20800)	17.53	17.81
	25RB-High (25)	2565 (21400)	17.67	17.69

		2535 (21100)	17.51	17.53
		2505 (20800)	17.52	17.57
	25RB-Middle (12)	2565 (21400)	17.66	17.68
		2535 (21100)	17.56	17.58
		2505 (20800)	17.55	17.57
	25RB-Low (0)	2565 (21400)	17.58	17.61
		2535 (21100)	17.52	17.55
		2505 (20800)	17.51	17.55
	50RB (0)	2565 (21400)	17.62	17.63
		2535 (21100)	17.50	17.56
		2505 (20800)	17.49	17.55

15MHz	1RB-High (74)	2562.5 (21375)	17.53	17.76
		2535 (21100)	17.41	17.79
		2507.5 (20825)	17.39	17.74
	1RB-Middle (37)	2562.5 (21375)	17.63	18.00
		2535 (21100)	17.49	17.73
		2507.5 (20825)	17.51	17.74
	1RB-Low (0)	2562.5 (21375)	17.50	17.93
		2535 (21100)	17.46	17.77
		2507.5 (20825)	17.48	17.86

	36RB-High (38)	2562.5 (21375)	17.66	17.66
		2535 (21100)	17.52	17.51
		2507.5 (20825)	17.53	17.53
	36RB-Middle (19)	2562.5 (21375)	17.66	17.61
		2535 (21100)	17.56	17.57
		2507.5 (20825)	17.55	17.53
	36RB-Low (0)	2562.5 (21375)	17.61	17.63
		2535 (21100)	17.52	17.50
		2507.5 (20825)	17.55	17.52
	75RB (0)	2562.5 (21375)	17.63	17.66
		2535 (21100)	17.50	17.51
		2507.5 (20825)	17.51	17.51

20MHz	1RB-High (99)	2560 (21350)	17.28	17.74
		2535 (21100)	17.15	17.67
		2510 (20850)	17.24	17.83
	1RB-Middle (50)	2560 (21350)	17.59	18.17
		2535 (21100)	17.52	18.05
		2510 (20850)	17.70	18.25
	1RB-Low (0)	2560 (21350)	17.32	17.87
		2535 (21100)	17.34	17.80

		2510 (20850)	17.41	17.98
	50RB-High (50)	2560 (21350)	17.55	17.64
		2535 (21100)	17.50	17.52
		2510 (20850)	17.63	17.70
	50RB-Middle (25)	2560 (21350)	17.57	17.62
		2535 (21100)	17.61	17.60
		2510 (20850)	17.59	17.71
	50RB-Low (0)	2560 (21350)	17.56	17.59
		2535 (21100)	17.54	17.54
		2510 (20850)	17.59	17.63
	100RB (0)	2560 (21350)	17.61	17.61
		2535 (21100)	17.54	17.54
		2510 (20850)	17.61	17.71

LTEB13(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	784.5 (23255)	22.67	23.00
		782 (23230)	22.58	22.90
		779.5 (23205)	22.56	22.89
	1RB-Middle (12)	784.5 (23255)	22.81	23.15
		782 (23230)	22.85	23.10

		779.5 (23205)	22.81	23.11
	1RB-Low (0)	784.5 (23255)	22.59	22.88
		782 (23230)	22.59	22.87
		779.5 (23205)	22.59	22.88
	12RB-High (13)	784.5 (23255)	22.75	21.75
		782 (23230)	22.71	21.72
		779.5 (23205)	22.65	21.67
	12RB-Middle (6)	784.5 (23255)	22.81	21.82
		782 (23230)	22.72	21.76
		779.5 (23205)	22.73	21.74
	12RB-Low (0)	784.5 (23255)	22.75	21.75
		782 (23230)	22.71	21.69
		779.5 (23205)	22.71	21.75
	25RB (0)	784.5 (23255)	22.75	21.74
		782 (23230)	22.70	21.72
		779.5 (23205)	22.69	21.73

10MHz	1RB-High (49)	782 (23230)	22.73	22.97
	1RB-Middle (24)	782 (23230)	22.78	23.01
	1RB-Low (0)	782 (23230)	22.71	22.96
	25RB-High (25)	782 (23230)	22.81	21.81

	25RB-Middle (12)	782 (23230)	22.77	21.78
	25RB-Low (0)	782 (23230)	22.79	21.80
	50RB (0)	782 (23230)	22.80	21.81

LTEB13 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	784.5 (23255)	23.70	23.02
		782 (23230)	23.60	22.88
		779.5 (23205)	23.60	22.88
	1RB-Middle (12)	784.5 (23255)	23.90	23.24
		782 (23230)	23.84	23.10
		779.5 (23205)	23.81	23.00
	1RB-Low (0)	784.5 (23255)	23.60	22.89
		782 (23230)	23.61	22.94
		779.5 (23205)	23.62	22.85
	12RB-High (13)	784.5 (23255)	22.77	21.79
		782 (23230)	22.74	21.76
		779.5 (23205)	22.70	21.66
	12RB-Middle (6)	784.5 (23255)	22.83	21.83
		782 (23230)	22.79	21.75
		779.5 (23205)	22.75	21.76

	12RB-Low (0)	784.5 (23255)	22.78	21.80
		782 (23230)	22.74	21.75
		779.5 (23205)	22.76	21.74
	25RB (0)	784.5 (23255)	22.78	21.78
		782 (23230)	22.73	21.74
		779.5 (23205)	22.73	21.72

10MHz	1RB-High (49)	782 (23230)	23.77	22.95
	1RB-Middle (24)	782 (23230)	23.84	23.18
	1RB-Low (0)	782 (23230)	23.72	22.95
	25RB-High (25)	782 (23230)	22.83	21.83
	25RB-Middle (12)	782 (23230)	22.81	21.83
	25RB-Low (0)	782 (23230)	22.81	21.81
	50RB (0)	782 (23230)	22.83	21.84

LTEB13 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	784.5 (23255)	22.21	22.54
		782 (23230)	22.16	22.39
		779.5 (23205)	22.13	22.40
	1RB-Middle (12)	784.5 (23255)	22.46	22.72
		782 (23230)	22.34	22.65

		779.5 (23205)	22.41	22.74
	1RB-Low (0)	784.5 (23255)	22.17	22.52
		782 (23230)	22.14	22.38
		779.5 (23205)	22.16	22.50
	12RB-High (13)	784.5 (23255)	22.31	21.82
		782 (23230)	22.28	21.76
		779.5 (23205)	22.22	21.75
	12RB-Middle (6)	784.5 (23255)	22.39	21.87
		782 (23230)	22.30	21.82
		779.5 (23205)	22.32	21.83
	12RB-Low (0)	784.5 (23255)	22.30	21.77
		782 (23230)	22.27	21.79
		779.5 (23205)	22.30	21.80
	25RB (0)	784.5 (23255)	22.31	21.81
		782 (23230)	22.26	21.77
		779.5 (23205)	22.27	21.80

10MHz	1RB-High (49)	782 (23230)	22.18	22.10
	1RB-Middle (24)	782 (23230)	22.15	22.19
	1RB-Low (0)	782 (23230)	22.21	22.03
	25RB-High (25)	782 (23230)	22.24	21.78

	25RB-Middle (12)	782 (23230)	22.16	21.73
	25RB-Low (0)	782 (23230)	22.18	21.76
	50RB (0)	782 (23230)	22.20	21.72

LTEB26(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	848.3 (27033)	22.56	22.75
		831.5 (26865)	22.64	22.81
		814.7 (26697)	22.65	22.85
	1RB-Middle (3)	848.3 (27033)	22.71	22.88
		831.5 (26865)	22.76	22.96
		814.7 (26697)	22.78	22.97
	1RB-Low (0)	848.3 (27033)	22.56	22.83
		831.5 (26865)	22.57	22.79
		814.7 (26697)	22.67	22.89
	3RB-High (3)	848.3 (27033)	22.67	22.59
		831.5 (26865)	22.70	22.62
		814.7 (26697)	22.75	22.64
	3RB-Middle (1)	848.3 (27033)	22.74	22.72
		831.5 (26865)	22.75	22.71
		814.7 (26697)	22.81	22.80

	3RB-Low (0)	848.3 (27033)	22.64	22.64
		831.5 (26865)	22.69	22.66
		814.7 (26697)	22.76	22.76
	6RB (0)	848.3 (27033)	22.68	21.74
		831.5 (26865)	22.73	21.78
		814.7 (26697)	22.79	21.86

3MHz	1RB-High (14)	847.5 (27025)	22.59	22.84
		831.5 (26865)	22.67	22.87
		815.5 (26705)	22.68	22.92
	1RB-Middle (7)	847.5 (27025)	22.72	23.00
		831.5 (26865)	22.77	23.02
		815.5 (26705)	22.72	23.05
	1RB-Low (0)	847.5 (27025)	22.61	22.91
		831.5 (26865)	22.63	22.85
		815.5 (26705)	22.63	22.91
	8RB-High (7)	847.5 (27025)	22.59	21.64
		831.5 (26865)	22.65	21.71
		815.5 (26705)	22.65	21.73
	8RB-Middle (4)	847.5 (27025)	22.65	21.70
		831.5 (26865)	22.71	21.74

		815.5 (26705)	22.69	21.76
	8RB-Low (0)	847.5 (27025)	22.62	21.73
		831.5 (26865)	22.65	21.70
		815.5 (26705)	22.64	21.72
	15RB (0)	847.5 (27025)	22.62	21.64
		831.5 (26865)	22.65	21.69
		815.5 (26705)	22.66	21.68

5MHz	1RB-High (24)	846.5 (27015)	22.48	22.76
		831.5 (26865)	22.54	22.72
		816.5 (26715)	22.58	22.82
	1RB-Middle (12)	846.5 (27015)	22.79	22.95
		831.5 (26865)	22.77	22.95
		816.5 (26715)	22.81	23.07
	1RB-Low (0)	846.5 (27015)	22.54	22.73
		831.5 (26865)	22.54	22.82
		816.5 (26715)	22.62	22.85
	12RB-High (13)	846.5 (27015)	22.59	21.57
		831.5 (26865)	22.68	21.62
		816.5 (26715)	22.70	21.71
	12RB-Middle (6)	846.5 (27015)	22.68	21.68

		831.5 (26865)	22.71	21.67
		816.5 (26715)	22.77	21.74
	12RB-Low (0)	846.5 (27015)	22.68	21.68
		831.5 (26865)	22.67	21.65
		816.5 (26715)	22.68	21.67
	25RB (0)	846.5 (27015)	22.67	21.65
		831.5 (26865)	22.69	21.65
		816.5 (26715)	22.71	21.73

10MHz	1RB-High (49)	844 (26990)	22.58	22.77
		831.5 (26865)	22.61	22.90
		820 (26750)	22.63	22.99
	1RB-Middle (24)	844 (26990)	22.72	22.92
		831.5 (26865)	22.71	23.01
		820 (26750)	22.79	23.00
	1RB-Low (0)	844 (26990)	22.67	22.91
		831.5 (26865)	22.63	22.85
		820 (26750)	22.69	22.87
	25RB-High (25)	844 (26990)	22.62	21.61
		831.5 (26865)	22.72	21.73
		820 (26750)	22.73	21.73

	25RB-Middle (12)	844 (26990)	22.69	21.67
		831.5 (26865)	22.71	21.70
		820 (26750)	22.78	21.77
	25RB-Low (0)	844 (26990)	22.76	21.76
		831.5 (26865)	22.74	21.78
		820 (26750)	22.73	21.75
	50RB (0)	844 (26990)	22.68	21.67
		831.5 (26865)	22.75	21.72
		820 (26750)	22.74	21.76

15MHz	1RB-High (74)	841.5 (26965)	22.42	22.61
		831.5 (26865)	22.49	22.73
		822.5 (26775)	22.45	22.67
	1RB-Middle (37)	841.5 (26965)	22.57	22.87
		831.5 (26865)	22.56	22.77
		822.5 (26775)	22.59	22.93
	1RB-Low (0)	841.5 (26965)	22.57	22.75
		831.5 (26865)	22.51	22.75
		822.5 (26775)	22.55	22.86
	36RB-High (38)	841.5 (26965)	22.52	21.51
		831.5 (26865)	22.58	21.57

		822.5 (26775)	22.60	21.58
	36RB-Middle (19)	841.5 (26965)	22.64	21.61
		831.5 (26865)	22.65	21.62
		822.5 (26775)	22.66	21.64
	36RB-Low (0)	841.5 (26965)	22.64	21.61
		831.5 (26865)	22.63	21.60
		822.5 (26775)	22.65	21.64
	75RB (0)	841.5 (26965)	22.58	21.57
		831.5 (26865)	22.62	21.61
		822.5 (26775)	22.63	21.61

LTEB26 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.57	22.68
		831.5 (26865)	23.61	22.81
		814.7 (26697)	23.64	22.86
	1RB-Middle (3)	848.3 (27033)	23.70	22.95
		831.5 (26865)	23.73	22.92
		814.7 (26697)	23.80	22.93
	1RB-Low (0)	848.3 (27033)	23.55	22.78
		831.5 (26865)	23.60	22.72

		814.7 (26697)	23.68	22.97
	3RB-High (3)	848.3 (27033)	23.62	22.59
		831.5 (26865)	23.72	22.61
		814.7 (26697)	23.79	22.75
	3RB-Middle (1)	848.3 (27033)	23.74	22.70
		831.5 (26865)	23.77	22.70
		814.7 (26697)	23.84	22.80
	3RB-Low (0)	848.3 (27033)	23.66	22.64
		831.5 (26865)	23.72	22.68
		814.7 (26697)	23.78	22.68
	6RB (0)	848.3 (27033)	22.69	21.77
		831.5 (26865)	22.72	21.83
		814.7 (26697)	22.79	21.81

3MHz	1RB-High (14)	847.5 (27025)	23.59	22.83
		831.5 (26865)	23.65	22.86
		815.5 (26705)	23.67	22.81
	1RB-Middle (7)	847.5 (27025)	23.81	22.93
		831.5 (26865)	23.78	23.01
		815.5 (26705)	23.74	23.01
	1RB-Low (0)	847.5 (27025)	23.62	22.81

		831.5 (26865)	23.63	22.83
		815.5 (26705)	23.64	22.93
	8RB-High (7)	847.5 (27025)	22.63	21.67
		831.5 (26865)	22.68	21.73
		815.5 (26705)	22.68	21.72
	8RB-Middle (4)	847.5 (27025)	22.69	21.71
		831.5 (26865)	22.70	21.76
		815.5 (26705)	22.69	21.78
	8RB-Low (0)	847.5 (27025)	22.64	21.71
		831.5 (26865)	22.65	21.72
		815.5 (26705)	22.66	21.73
	15RB (0)	847.5 (27025)	22.65	21.65
		831.5 (26865)	22.66	21.69
		815.5 (26705)	22.68	21.69

5MHz	1RB-High (24)	846.5 (27015)	23.57	22.67
		831.5 (26865)	23.56	22.79
		816.5 (26715)	23.62	22.94
	1RB-Middle (12)	846.5 (27015)	23.72	22.98
		831.5 (26865)	23.86	23.14
		816.5 (26715)	23.83	23.03

	1RB-Low (0)	846.5 (27015)	23.56	22.76
		831.5 (26865)	23.55	22.80
		816.5 (26715)	23.64	22.93
	12RB-High (13)	846.5 (27015)	22.60	21.58
		831.5 (26865)	22.66	21.68
		816.5 (26715)	22.74	21.74
	12RB-Middle (6)	846.5 (27015)	22.70	21.71
		831.5 (26865)	22.72	21.76
		816.5 (26715)	22.80	21.77
	12RB-Low (0)	846.5 (27015)	22.70	21.71
		831.5 (26865)	22.67	21.70
		816.5 (26715)	22.70	21.67
	25RB (0)	846.5 (27015)	22.69	21.67
		831.5 (26865)	22.71	21.73
		816.5 (26715)	22.74	21.74

10MHz	1RB-High (49)	844 (26990)	23.63	22.87
		831.5 (26865)	23.64	22.89
		820 (26750)	23.67	22.89
	1RB-Middle (24)	844 (26990)	23.77	22.96
		831.5 (26865)	23.78	22.99

		820 (26750)	23.80	23.11
	1RB-Low (0)	844 (26990)	23.71	23.04
		831.5 (26865)	23.67	22.84
		820 (26750)	23.75	22.96
	25RB-High (25)	844 (26990)	22.63	21.63
		831.5 (26865)	22.76	21.74
		820 (26750)	22.76	21.77
	25RB-Middle (12)	844 (26990)	22.73	21.71
		831.5 (26865)	22.75	21.74
		820 (26750)	22.80	21.81
	25RB-Low (0)	844 (26990)	22.81	21.79
		831.5 (26865)	22.78	21.75
		820 (26750)	22.78	21.80
	50RB (0)	844 (26990)	22.73	21.72
		831.5 (26865)	22.78	21.74
		820 (26750)	22.78	21.77

15MHz	1RB-High (74)	841.5 (26965)	23.41	22.70
		831.5 (26865)	23.49	22.72
		822.5 (26775)	23.48	22.67
	1RB-Middle (37)	841.5 (26965)	23.58	22.88

		831.5 (26865)	23.57	22.80
		822.5 (26775)	23.59	22.82
	1RB-Low (0)	841.5 (26965)	23.54	22.72
		831.5 (26865)	23.51	22.90
		822.5 (26775)	23.56	22.77
	36RB-High (38)	841.5 (26965)	22.53	21.51
		831.5 (26865)	22.62	21.58
		822.5 (26775)	22.64	21.61
	36RB-Middle (19)	841.5 (26965)	22.67	21.63
		831.5 (26865)	22.67	21.63
		822.5 (26775)	22.66	21.64
	36RB-Low (0)	841.5 (26965)	22.68	21.61
		831.5 (26865)	22.66	21.62
		822.5 (26775)	22.67	21.66
	75RB (0)	841.5 (26965)	22.58	21.58
		831.5 (26865)	22.65	21.63
		822.5 (26775)	22.64	21.64

LTEB26 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	848.3 (27033)	22.08	22.36

		831.5 (26865)	22.11	22.29
		814.7 (26697)	22.14	22.33
	1RB-Middle (3)	848.3 (27033)	22.21	22.50
		831.5 (26865)	22.22	22.55
		814.7 (26697)	22.29	22.54
	1RB-Low (0)	848.3 (27033)	22.06	22.38
		831.5 (26865)	22.08	22.39
		814.7 (26697)	22.17	22.43
	3RB-High (3)	848.3 (27033)	22.18	22.09
		831.5 (26865)	22.19	22.11
		814.7 (26697)	22.25	22.26
	3RB-Middle (1)	848.3 (27033)	22.21	22.20
		831.5 (26865)	22.25	22.24
		814.7 (26697)	22.32	22.26
	3RB-Low (0)	848.3 (27033)	22.17	22.07
		831.5 (26865)	22.19	22.18
		814.7 (26697)	22.30	22.24
	6RB (0)	848.3 (27033)	22.18	21.72
		831.5 (26865)	22.20	21.74
		814.7 (26697)	22.25	21.86

3MHz	1RB-High (14)	847.5 (27025)	22.06	22.39
		831.5 (26865)	22.12	22.45
		815.5 (26705)	22.15	22.44
	1RB-Middle (7)	847.5 (27025)	22.28	22.51
		831.5 (26865)	22.22	22.57
		815.5 (26705)	22.28	22.44
	1RB-Low (0)	847.5 (27025)	22.10	22.33
		831.5 (26865)	22.10	22.41
		815.5 (26705)	22.14	22.37
	8RB-High (7)	847.5 (27025)	22.05	21.66
		831.5 (26865)	22.15	21.71
		815.5 (26705)	22.15	21.73
	8RB-Middle (4)	847.5 (27025)	22.15	21.71
		831.5 (26865)	22.16	21.75
		815.5 (26705)	22.17	21.75
	8RB-Low (0)	847.5 (27025)	22.11	21.71
		831.5 (26865)	22.12	21.69
		815.5 (26705)	22.14	21.71
	15RB (0)	847.5 (27025)	22.08	21.63
		831.5 (26865)	22.14	21.65

		815.5 (26705)	22.16	21.67

5MHz	1RB-High (24)	846.5 (27015)	22.03	22.24
		831.5 (26865)	22.02	22.22
		816.5 (26715)	22.09	22.37
	1RB-Middle (12)	846.5 (27015)	22.31	22.55
		831.5 (26865)	22.27	22.58
		816.5 (26715)	22.28	22.48
	1RB-Low (0)	846.5 (27015)	22.02	22.26
		831.5 (26865)	22.01	22.27
		816.5 (26715)	22.10	22.41
	12RB-High (13)	846.5 (27015)	22.06	21.59
		831.5 (26865)	22.14	21.62
		816.5 (26715)	22.19	21.69
	12RB-Middle (6)	846.5 (27015)	22.15	21.68
		831.5 (26865)	22.17	21.68
		816.5 (26715)	22.25	21.75
	12RB-Low (0)	846.5 (27015)	22.17	21.68
		831.5 (26865)	22.13	21.64
		816.5 (26715)	22.18	21.66
	25RB (0)	846.5 (27015)	22.15	21.64

		831.5 (26865)	22.15	21.64
		816.5 (26715)	22.20	21.71

10MHz	1RB-High (49)	844 (26990)	22.06	22.27
		831.5 (26865)	22.09	22.32
		820 (26750)	22.10	22.40
	1RB-Middle (24)	844 (26990)	22.19	22.43
		831.5 (26865)	22.21	22.38
		820 (26750)	22.28	22.59
	1RB-Low (0)	844 (26990)	22.16	22.36
		831.5 (26865)	22.11	22.43
		820 (26750)	22.20	22.52
	25RB-High (25)	844 (26990)	22.08	21.58
		831.5 (26865)	22.19	21.70
		820 (26750)	22.18	21.74
	25RB-Middle (12)	844 (26990)	22.16	21.66
		831.5 (26865)	22.19	21.69
		820 (26750)	22.23	21.75
	25RB-Low (0)	844 (26990)	22.25	21.75
		831.5 (26865)	22.20	21.69
		820 (26750)	22.22	21.76

	50RB (0)	844 (26990)	22.15	21.68
		831.5 (26865)	22.18	21.68
		820 (26750)	22.20	21.72

15MHz	1RB-High (74)	841.5 (26965)	21.93	22.22
		831.5 (26865)	22.17	22.00
		822.5 (26775)	22.11	22.18
	1RB-Middle (37)	841.5 (26965)	22.01	22.18
		831.5 (26865)	22.12	21.93
		822.5 (26775)	22.20	22.01
	1RB-Low (0)	841.5 (26965)	21.98	22.05
		831.5 (26865)	22.00	22.20
		822.5 (26775)	21.95	21.94
	36RB-High (38)	841.5 (26965)	22.12	21.43
		831.5 (26865)	22.01	21.44
		822.5 (26775)	22.00	21.55
	36RB-Middle (19)	841.5 (26965)	21.90	21.47
		831.5 (26865)	22.14	21.42
		822.5 (26775)	22.03	21.58
	36RB-Low (0)	841.5 (26965)	22.22	21.41
		831.5 (26865)	22.18	21.43

		822.5 (26775)	21.93	21.57
	75RB (0)	841.5 (26965)	22.19	21.49
		831.5 (26865)	22.22	21.58
		822.5 (26775)	22.07	21.58

LTEB38(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2617.5 (38225)	23.40	22.42
		2595 (38000)	23.41	22.44
		2572.5 (37775)	23.44	22.47
	1RB-Middle (12)	2617.5 (38225)	23.58	22.66
		2595 (38000)	23.61	22.65
		2572.5 (37775)	23.55	22.57
	1RB-Low (0)	2617.5 (38225)	23.44	22.47
		2595 (38000)	23.50	22.55
		2572.5 (37775)	23.52	22.54
	12RB-High (13)	2617.5 (38225)	22.48	21.44
		2595 (38000)	22.50	21.44
		2572.5 (37775)	22.56	21.46
	12RB-Middle (6)	2617.5 (38225)	22.48	21.45
		2595 (38000)	22.52	21.48

		2572.5 (37775)	22.61	21.54
	12RB-Low (0)	2617.5 (38225)	22.50	21.42
		2595 (38000)	22.58	21.52
		2572.5 (37775)	22.60	21.51
	25RB (0)	2617.5 (38225)	22.49	21.51
		2595 (38000)	22.49	21.56
		2572.5 (37775)	22.53	21.58

10MHz	1RB-High (49)	2615 (38200)	23.47	22.46
		2595 (38000)	23.49	22.50
		2575 (37800)	23.52	22.56
	1RB-Middle (24)	2615 (38200)	23.54	22.57
		2595 (38000)	23.62	22.56
		2575 (37800)	23.63	22.70
	1RB-Low (0)	2615 (38200)	23.54	22.59
		2595 (38000)	23.60	22.65
		2575 (37800)	23.58	22.65
	25RB-High (25)	2615 (38200)	22.54	21.56
		2595 (38000)	22.56	21.53
		2575 (37800)	22.59	21.62
	25RB-Middle (12)	2615 (38200)	22.49	21.56

		2595 (38000)	22.59	21.64
		2575 (37800)	22.65	21.63
	25RB-Low (0)	2615 (38200)	22.57	21.58
		2595 (38000)	22.61	21.58
		2575 (37800)	22.61	21.64
	50RB (0)	2615 (38200)	22.50	21.50
		2595 (38000)	22.50	21.54
		2575 (37800)	22.54	21.55

15MHz	1RB-High (74)	2612.5 (38175)	23.37	22.39
		2595 (38000)	23.37	22.43
		2577.5 (37825)	23.48	22.50
	1RB-Middle (37)	2612.5 (38175)	23.55	22.56
		2595 (38000)	23.53	22.60
		2577.5 (37825)	23.58	22.63
	1RB-Low (0)	2612.5 (38175)	23.50	22.54
		2595 (38000)	23.53	22.58
		2577.5 (37825)	23.58	22.56
	36RB-High (38)	2612.5 (38175)	22.47	21.46
		2595 (38000)	22.51	21.46
		2577.5 (37825)	22.65	21.51

	36RB-Middle (19)	2612.5 (38175)	22.52	21.47
		2595 (38000)	22.60	21.53
		2577.5 (37825)	22.63	21.59
	36RB-Low (0)	2612.5 (38175)	22.52	21.48
		2595 (38000)	22.56	21.52
		2577.5 (37825)	22.61	21.59
	75RB (0)	2612.5 (38175)	22.44	21.46
		2595 (38000)	22.46	21.48
		2577.5 (37825)	22.53	21.55

20MHz	1RB-High (99)	2610 (38150)	23.30	22.34
		2595 (38000)	23.33	22.35
		2580 (37850)	23.38	22.42
	1RB-Middle (50)	2610 (38150)	23.69	22.71
		2595 (38000)	23.71	22.70
		2580 (37850)	23.77	22.74
	1RB-Low (0)	2610 (38150)	23.48	22.52
		2595 (38000)	23.50	22.53
		2580 (37850)	23.54	22.53
	50RB-High (50)	2610 (38150)	22.47	21.58
		2595 (38000)	22.44	21.57

		2580 (37850)	22.59	21.66
	50RB-Middle (25)	2610 (38150)	22.54	21.60
		2595 (38000)	22.56	21.62
		2580 (37850)	22.63	21.70
	50RB-Low (0)	2610 (38150)	22.54	21.56
		2595 (38000)	22.55	21.65
		2580 (37850)	22.57	21.62
	100RB (0)	2610 (38150)	22.63	21.64
		2595 (38000)	22.64	21.67
		2580 (37850)	22.63	21.71

LTEB38 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2617.5 (38225)	21.93	21.97
		2595 (38000)	21.91	22.01
		2572.5 (37775)	21.94	21.98
	1RB-Middle (12)	2617.5 (38225)	22.06	22.10
		2595 (38000)	22.11	22.16
		2572.5 (37775)	22.18	22.24
	1RB-Low (0)	2617.5 (38225)	21.97	22.01
		2595 (38000)	22.03	22.05

		2572.5 (37775)	22.02	22.07
	12RB-High (13)	2617.5 (38225)	21.97	21.49
		2595 (38000)	22.01	21.47
		2572.5 (37775)	22.05	21.46
	12RB-Middle (6)	2617.5 (38225)	22.12	21.49
		2595 (38000)	22.08	21.54
		2572.5 (37775)	22.12	21.59
	12RB-Low (0)	2617.5 (38225)	22.02	21.47
		2595 (38000)	22.04	21.50
		2572.5 (37775)	22.10	21.50
	25RB (0)	2617.5 (38225)	22.02	21.53
		2595 (38000)	22.02	21.61
		2572.5 (37775)	22.06	21.61

10MHz	1RB-High (49)	2615 (38200)	21.96	22.01
		2595 (38000)	22.01	22.07
		2575 (37800)	22.08	22.14
	1RB-Middle (24)	2615 (38200)	22.12	22.18
		2595 (38000)	22.18	22.18
		2575 (37800)	22.18	22.08
	1RB-Low (0)	2615 (38200)	22.05	22.09

		2595 (38000)	22.15	22.16
		2575 (37800)	22.13	22.20
	25RB-High (25)	2615 (38200)	22.04	21.58
		2595 (38000)	22.09	21.61
		2575 (37800)	22.18	21.68
	25RB-Middle (12)	2615 (38200)	22.09	21.55
		2595 (38000)	22.09	21.64
		2575 (37800)	22.16	21.68
	25RB-Low (0)	2615 (38200)	22.08	21.61
		2595 (38000)	22.12	21.67
		2575 (37800)	22.16	21.67
	50RB (0)	2615 (38200)	21.95	21.52
		2595 (38000)	21.97	21.65
		2575 (37800)	22.06	21.61

15MHz	1RB-High (74)	2612.5 (38175)	21.88	21.95
		2595 (38000)	21.92	22.01
		2577.5 (37825)	22.00	21.99
	1RB-Middle (37)	2612.5 (38175)	22.07	22.12
		2595 (38000)	22.07	22.13
		2577.5 (37825)	22.15	22.18

	1RB-Low (0)	2612.5 (38175)	21.96	22.05
		2595 (38000)	22.06	22.07
		2577.5 (37825)	22.09	22.15
	36RB-High (38)	2612.5 (38175)	22.01	21.50
		2595 (38000)	22.04	21.47
		2577.5 (37825)	22.09	21.61
	36RB-Middle (19)	2612.5 (38175)	22.09	21.48
		2595 (38000)	22.10	21.59
		2577.5 (37825)	22.16	21.58
	36RB-Low (0)	2612.5 (38175)	22.08	21.50
		2595 (38000)	22.11	21.61
		2577.5 (37825)	22.12	21.57
	75RB (0)	2612.5 (38175)	22.00	21.50
		2595 (38000)	22.01	21.51
		2577.5 (37825)	22.09	21.61

20MHz	1RB-High (99)	2610 (38150)	21.80	21.87
		2595 (38000)	21.82	21.88
		2580 (37850)	21.85	21.91
	1RB-Middle (50)	2610 (38150)	22.20	22.21
		2595 (38000)	22.19	22.25

		2580 (37850)	22.31	22.32
	1RB-Low (0)	2610 (38150)	21.92	22.04
		2595 (38000)	22.03	22.10
		2580 (37850)	22.03	22.09
	50RB-High (50)	2610 (38150)	21.97	21.55
		2595 (38000)	21.97	21.54
		2580 (37850)	22.06	21.67
	50RB-Middle (25)	2610 (38150)	22.04	21.59
		2595 (38000)	22.13	21.65
		2580 (37850)	22.06	21.68
	50RB-Low (0)	2610 (38150)	21.98	21.59
		2595 (38000)	22.03	21.64
		2580 (37850)	22.07	21.64
	100RB (0)	2610 (38150)	22.09	21.65
		2595 (38000)	22.12	21.73
		2580 (37850)	22.14	21.74

LTEB38 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
5MHz	1RB-High (24)	2617.5 (38225)	19.43	19.49
		2595 (38000)	19.44	19.49

		2572.5 (37775)	19.36	19.51
	1RB-Middle (12)	2617.5 (38225)	19.57	19.61
		2595 (38000)	19.61	19.64
		2572.5 (37775)	19.63	19.68
	1RB-Low (0)	2617.5 (38225)	19.45	19.51
		2595 (38000)	19.46	19.56
		2572.5 (37775)	19.52	19.57
	12RB-High (13)	2617.5 (38225)	19.50	19.43
		2595 (38000)	19.53	19.44
		2572.5 (37775)	19.54	19.46
	12RB-Middle (6)	2617.5 (38225)	19.52	19.44
		2595 (38000)	19.56	19.46
		2572.5 (37775)	19.62	19.51
	12RB-Low (0)	2617.5 (38225)	19.49	19.43
		2595 (38000)	19.58	19.42
		2572.5 (37775)	19.57	19.49
	25RB (0)	2617.5 (38225)	19.50	19.51
		2595 (38000)	19.48	19.52
		2572.5 (37775)	19.60	19.60

10MHz	1RB-High (49)	2615 (38200)	19.42	19.47

		2595 (38000)	19.44	19.53
		2575 (37800)	19.51	19.63
	1RB-Middle (24)	2615 (38200)	19.64	19.67
		2595 (38000)	19.64	19.66
		2575 (37800)	19.64	19.75
	1RB-Low (0)	2615 (38200)	19.54	19.63
		2595 (38000)	19.59	19.67
		2575 (37800)	19.61	19.66
	25RB-High (25)	2615 (38200)	19.49	19.48
		2595 (38000)	19.56	19.51
		2575 (37800)	19.62	19.61
	25RB-Middle (12)	2615 (38200)	19.57	19.53
		2595 (38000)	19.62	19.63
		2575 (37800)	19.64	19.61
	25RB-Low (0)	2615 (38200)	19.53	19.50
		2595 (38000)	19.57	19.54
		2575 (37800)	19.63	19.63
	50RB (0)	2615 (38200)	19.50	19.44
		2595 (38000)	19.57	19.52
		2575 (37800)	19.57	19.59

15MHz	1RB-High (74)	2612.5 (38175)	19.39	19.43
		2595 (38000)	19.41	19.44
		2577.5 (37825)	19.44	19.54
	1RB-Middle (37)	2612.5 (38175)	19.54	19.56
		2595 (38000)	19.57	19.56
		2577.5 (37825)	19.63	19.63
	1RB-Low (0)	2612.5 (38175)	19.51	19.59
		2595 (38000)	19.53	19.60
		2577.5 (37825)	19.50	19.65
	36RB-High (38)	2612.5 (38175)	19.52	19.45
		2595 (38000)	19.56	19.47
		2577.5 (37825)	19.62	19.46
	36RB-Middle (19)	2612.5 (38175)	19.52	19.46
		2595 (38000)	19.59	19.53
		2577.5 (37825)	19.65	19.55
	36RB-Low (0)	2612.5 (38175)	19.53	19.43
		2595 (38000)	19.56	19.48
		2577.5 (37825)	19.63	19.57
	75RB (0)	2612.5 (38175)	19.46	19.44
		2595 (38000)	19.49	19.45

		2577.5 (37825)	19.58	19.53

20MHz	1RB-High (99)	2610 (38150)	19.22	19.35
		2595 (38000)	19.23	19.59
		2580 (37850)	19.19	19.51
	1RB-Middle (50)	2610 (38150)	19.74	19.85
		2595 (38000)	19.76	19.87
		2580 (37850)	19.74	19.85
	1RB-Low (0)	2610 (38150)	19.30	19.47
		2595 (38000)	19.38	19.70
		2580 (37850)	19.27	19.61
	50RB-High (50)	2610 (38150)	19.44	19.45
		2595 (38000)	19.48	19.52
		2580 (37850)	19.50	19.46
	50RB-Middle (25)	2610 (38150)	19.48	19.49
		2595 (38000)	19.53	19.54
		2580 (37850)	19.49	19.47
	50RB-Low (0)	2610 (38150)	19.43	19.41
		2595 (38000)	19.50	19.49
		2580 (37850)	19.48	19.43
	100RB (0)	2610 (38150)	19.46	19.46

		2595 (38000)	19.52	19.48
		2580 (37850)	19.52	19.47

LTEB66(receiver on)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	17.97	18.25
		1745 (132322)	17.90	18.21
		1710.7 (131979)	17.95	18.38
	1RB-Middle (3)	1779.3 (132665)	18.06	18.44
		1745 (132322)	18.01	18.31
		1710.7 (131979)	18.07	18.33
	1RB-Low (0)	1779.3 (132665)	17.94	18.32
		1745 (132322)	17.88	18.29
		1710.7 (131979)	17.94	18.36
	3RB-High (3)	1779.3 (132665)	18.02	18.04
		1745 (132322)	17.96	17.89
		1710.7 (131979)	18.09	18.08
	3RB-Middle (1)	1779.3 (132665)	18.07	18.11
		1745 (132322)	18.02	18.12
		1710.7 (131979)	18.13	18.18
	3RB-Low (0)	1779.3 (132665)	18.03	18.08

		1745 (132322)	17.98	17.98
		1710.7 (131979)	18.05	18.10
	6RB (0)	1779.3 (132665)	18.04	18.16
		1745 (132322)	17.97	18.07
		1710.7 (131979)	18.01	18.18

3MHz	1RB-High (14)	1778.5 (132657)	17.99	18.37
		1745 (132322)	17.89	18.24
		1711.5 (131987)	17.95	18.38
	1RB-Middle (7)	1778.5 (132657)	18.06	18.48
		1745 (132322)	18.02	18.32
		1711.5 (131987)	18.17	18.50
	1RB-Low (0)	1778.5 (132657)	18.01	18.30
		1745 (132322)	17.93	18.27
		1711.5 (131987)	18.01	18.45
	8RB-High (7)	1778.5 (132657)	17.98	18.12
		1745 (132322)	17.90	18.02
		1711.5 (131987)	18.03	18.15
	8RB-Middle (4)	1778.5 (132657)	18.01	18.14
		1745 (132322)	17.97	18.08
		1711.5 (131987)	18.05	18.17

	8RB-Low (0)	1778.5 (132657)	18.00	18.10
		1745 (132322)	17.93	18.04
		1711.5 (131987)	18.01	18.14
	15RB (0)	1778.5 (132657)	17.98	18.05
		1745 (132322)	17.93	17.97
		1711.5 (131987)	18.00	18.06

5MHz	1RB-High (24)	1777.5 (132647)	17.87	18.13
		1745 (132322)	17.81	18.09
		1712.5 (131997)	17.87	18.13
	1RB-Middle (12)	1777.5 (132647)	18.15	18.45
		1745 (132322)	18.13	18.47
		1712.5 (131997)	18.15	18.42
	1RB-Low (0)	1777.5 (132647)	17.93	18.34
		1745 (132322)	17.84	18.20
		1712.5 (131997)	17.90	18.30
	12RB-High (13)	1777.5 (132647)	17.99	18.01
		1745 (132322)	17.90	17.93
		1712.5 (131997)	17.98	18.04
	12RB-Middle (6)	1777.5 (132647)	18.08	18.08
		1745 (132322)	17.97	17.99

		1712.5 (131997)	18.07	18.11
	12RB-Low (0)	1777.5 (132647)	18.06	18.06
		1745 (132322)	17.96	17.96
		1712.5 (131997)	18.00	18.03
	25RB (0)	1777.5 (132647)	18.01	18.08
		1745 (132322)	17.95	17.98
		1712.5 (131997)	18.02	18.10

10MHz	1RB-High (49)	1775 (132622)	17.94	18.22
		1745 (132322)	17.88	18.33
		1715 (132022)	17.95	18.39
	1RB-Middle (24)	1775 (132622)	18.08	18.43
		1745 (132322)	18.04	18.38
		1715 (132022)	18.09	18.45
	1RB-Low (0)	1775 (132622)	17.93	18.23
		1745 (132322)	17.94	18.26
		1715 (132022)	18.00	18.31
	25RB-High (25)	1775 (132622)	18.03	18.07
		1745 (132322)	17.89	17.92
		1715 (132022)	18.01	18.13
	25RB-Middle (12)	1775 (132622)	18.07	18.09

		1745 (132322)	17.97	18.03
		1715 (132022)	18.03	18.07
	25RB-Low (0)	1775 (132622)	18.07	18.11
		1745 (132322)	18.01	18.01
		1715 (132022)	17.97	18.07
	50RB (0)	1775 (132622)	18.08	18.11
		1745 (132322)	17.96	18.00
		1715 (132022)	18.00	18.11

15MHz	1RB-High (74)	1772.5 (132597)	17.91	18.21
		1745 (132322)	17.86	18.22
		1717.5 (132047)	17.90	18.33
	1RB-Middle (37)	1772.5 (132597)	17.98	18.36
		1745 (132322)	17.97	18.28
		1717.5 (132047)	18.01	18.38
	1RB-Low (0)	1772.5 (132597)	17.90	18.35
		1745 (132322)	17.91	18.37
		1717.5 (132047)	17.98	18.37
	36RB-High (38)	1772.5 (132597)	18.03	18.03
		1745 (132322)	17.93	17.91
		1717.5 (132047)	18.03	18.08

	36RB-Middle (19)	1772.5 (132597)	18.04	18.06
		1745 (132322)	18.03	18.02
		1717.5 (132047)	18.04	18.07
	36RB-Low (0)	1772.5 (132597)	18.02	18.06
		1745 (132322)	18.04	18.02
		1717.5 (132047)	18.02	18.06
	75RB (0)	1772.5 (132597)	17.98	18.05
		1745 (132322)	17.94	17.96
		1717.5 (132047)	18.01	18.10

20MHz	1RB-High (99)	1770 (132572)	17.60	18.01
		1745 (132322)	17.49	17.90
		1720 (132072)	17.64	17.90
	1RB-Middle (50)	1770 (132572)	17.86	18.31
		1745 (132322)	17.84	18.24
		1720 (132072)	17.90	18.32
	1RB-Low (0)	1770 (132572)	17.59	18.00
		1745 (132322)	17.62	18.00
		1720 (132072)	17.64	17.91
	50RB-High (50)	1770 (132572)	17.80	17.82
		1745 (132322)	17.70	17.75

		1720 (132072)	17.86	17.92
	50RB-Middle (25)	1770 (132572)	17.83	17.93
		1745 (132322)	17.83	17.86
		1720 (132072)	17.87	17.92
	50RB-Low (0)	1770 (132572)	17.89	17.92
		1745 (132322)	17.87	17.88
		1720 (132072)	17.89	17.89
	100RB (0)	1770 (132572)	17.85	17.87
		1745 (132322)	17.78	17.79
		1720 (132072)	17.87	17.90

LTEB66 (receiver off)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	20.94	21.29
		1745 (132322)	20.88	21.08
		1710.7 (131979)	20.95	21.25
	1RB-Middle (3)	1779.3 (132665)	21.02	21.35
		1745 (132322)	20.96	21.23
		1710.7 (131979)	21.07	21.36
	1RB-Low (0)	1779.3 (132665)	20.95	21.22
		1745 (132322)	20.85	21.17

		1710.7 (131979)	20.96	21.31
	3RB-High (3)	1779.3 (132665)	21.03	20.94
		1745 (132322)	20.95	20.87
		1710.7 (131979)	21.05	21.06
	3RB-Middle (1)	1779.3 (132665)	21.03	21.07
		1745 (132322)	21.02	21.02
		1710.7 (131979)	21.13	21.01
	3RB-Low (0)	1779.3 (132665)	21.00	20.96
		1745 (132322)	20.94	20.98
		1710.7 (131979)	21.05	20.98
	6RB (0)	1779.3 (132665)	20.99	21.08
		1745 (132322)	20.94	21.07
		1710.7 (131979)	21.07	21.12

3MHz	1RB-High (14)	1778.5 (132657)	20.97	21.28
		1745 (132322)	20.91	21.19
		1711.5 (131987)	20.96	21.31
	1RB-Middle (7)	1778.5 (132657)	21.12	21.48
		1745 (132322)	21.03	21.17
		1711.5 (131987)	21.21	21.36
	1RB-Low (0)	1778.5 (132657)	20.97	21.30

		1745 (132322)	20.91	21.20
		1711.5 (131987)	21.00	21.33
	8RB-High (7)	1778.5 (132657)	20.94	21.02
		1745 (132322)	20.94	20.99
		1711.5 (131987)	21.02	21.09
	8RB-Middle (4)	1778.5 (132657)	21.01	21.07
		1745 (132322)	20.96	21.03
		1711.5 (131987)	21.05	21.10
	8RB-Low (0)	1778.5 (132657)	20.98	21.05
		1745 (132322)	20.93	21.01
		1711.5 (131987)	21.02	21.09
	15RB (0)	1778.5 (132657)	20.96	21.01
		1745 (132322)	20.93	20.93
		1711.5 (131987)	21.01	21.00

5MHz	1RB-High (24)	1777.5 (132647)	20.88	21.12
		1745 (132322)	20.81	21.05
		1712.5 (131997)	20.86	21.17
	1RB-Middle (12)	1777.5 (132647)	21.10	21.42
		1745 (132322)	21.00	21.30
		1712.5 (131997)	21.16	21.38

	1RB-Low (0)	1777.5 (132647)	20.90	21.10
		1745 (132322)	20.81	21.18
		1712.5 (131997)	20.92	21.26
	12RB-High (13)	1777.5 (132647)	20.97	20.91
		1745 (132322)	20.94	20.88
		1712.5 (131997)	21.03	21.00
	12RB-Middle (6)	1777.5 (132647)	21.04	21.07
		1745 (132322)	20.98	20.98
		1712.5 (131997)	21.08	21.07
	12RB-Low (0)	1777.5 (132647)	21.02	20.97
		1745 (132322)	20.96	20.94
		1712.5 (131997)	21.00	21.02
	25RB (0)	1777.5 (132647)	20.98	21.01
		1745 (132322)	20.94	20.96
		1712.5 (131997)	21.02	21.03

10MHz	1RB-High (49)	1775 (132622)	20.94	21.12
		1745 (132322)	20.86	21.17
		1715 (132022)	20.97	21.18
	1RB-Middle (24)	1775 (132622)	21.14	21.44
		1745 (132322)	21.02	21.34

		1715 (132022)	21.10	21.44
	1RB-Low (0)	1775 (132622)	20.91	21.27
		1745 (132322)	20.96	21.23
		1715 (132022)	21.00	21.26
	25RB-High (25)	1775 (132622)	21.01	21.00
		1745 (132322)	20.97	20.97
		1715 (132022)	21.08	21.09
	25RB-Middle (12)	1775 (132622)	21.06	21.07
		1745 (132322)	20.99	21.00
		1715 (132022)	21.04	21.09
	25RB-Low (0)	1775 (132622)	21.06	21.08
		1745 (132322)	21.06	21.07
		1715 (132022)	21.04	21.04
	50RB (0)	1775 (132622)	21.05	21.07
		1745 (132322)	21.03	21.06
		1715 (132022)	21.05	21.08

15MHz	1RB-High (74)	1772.5 (132597)	20.91	21.14
		1745 (132322)	20.82	21.18
		1717.5 (132047)	20.89	21.26
	1RB-Middle (37)	1772.5 (132597)	20.99	21.22

		1745 (132322)	20.95	21.18
		1717.5 (132047)	20.98	21.21
	1RB-Low (0)	1772.5 (132597)	20.89	21.15
		1745 (132322)	20.93	21.28
		1717.5 (132047)	20.96	21.28
	36RB-High (38)	1772.5 (132597)	21.01	21.00
		1745 (132322)	20.97	20.95
		1717.5 (132047)	21.07	21.08
	36RB-Middle (19)	1772.5 (132597)	21.05	21.03
		1745 (132322)	21.02	21.03
		1717.5 (132047)	21.08	21.07
	36RB-Low (0)	1772.5 (132597)	21.04	21.03
		1745 (132322)	21.06	21.03
		1717.5 (132047)	21.06	21.05
	75RB (0)	1772.5 (132597)	21.01	21.02
		1745 (132322)	20.99	20.98
		1717.5 (132047)	21.06	21.09

20MHz	1RB-High (99)	1770 (132572)	20.73	21.08
		1745 (132322)	20.61	21.00
		1720 (132072)	20.71	21.06

	1RB-Middle (50)	1770 (132572)	21.01	21.38
		1745 (132322)	20.96	21.14
		1720 (132072)	21.06	21.30
	1RB-Low (0)	1770 (132572)	20.69	21.06
		1745 (132322)	20.72	20.94
		1720 (132072)	20.74	20.99
	50RB-High (50)	1770 (132572)	20.88	20.88
		1745 (132322)	20.85	20.82
		1720 (132072)	20.98	21.00
	50RB-Middle (25)	1770 (132572)	20.99	21.03
		1745 (132322)	20.98	20.98
		1720 (132072)	20.99	21.01
	50RB-Low (0)	1770 (132572)	20.98	21.00
		1745 (132322)	21.00	20.98
		1720 (132072)	20.95	20.97
	100RB (0)	1770 (132572)	20.94	20.95
		1745 (132322)	20.93	20.89
		1720 (132072)	20.98	20.96

LTEB66 (Hostpot)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM

1.4MHz	1RB-High (5)	1779.3 (132665)	17.88	18.19
		1745 (132322)	17.77	18.16
		1710.7 (131979)	17.92	18.22
	1RB-Middle (3)	1779.3 (132665)	17.97	18.34
		1745 (132322)	17.91	18.24
		1710.7 (131979)	18.05	18.41
	1RB-Low (0)	1779.3 (132665)	17.90	18.17
		1745 (132322)	17.83	18.08
		1710.7 (131979)	17.90	18.31
	3RB-High (3)	1779.3 (132665)	18.01	17.98
		1745 (132322)	17.89	17.89
		1710.7 (131979)	17.99	18.03
	3RB-Middle (1)	1779.3 (132665)	18.00	18.01
		1745 (132322)	17.93	17.95
		1710.7 (131979)	18.06	18.05
	3RB-Low (0)	1779.3 (132665)	17.96	18.04
		1745 (132322)	17.89	17.88
		1710.7 (131979)	17.99	18.00
	6RB (0)	1779.3 (132665)	17.96	18.05
		1745 (132322)	17.87	18.03

		1710.7 (131979)	17.95	18.15

3MHz	1RB-High (14)	1778.5 (132657)	17.93	18.22
		1745 (132322)	17.86	18.16
		1711.5 (131987)	17.93	18.31
	1RB-Middle (7)	1778.5 (132657)	18.07	18.44
		1745 (132322)	18.04	18.32
		1711.5 (131987)	18.08	18.44
	1RB-Low (0)	1778.5 (132657)	17.95	18.35
		1745 (132322)	17.84	18.17
		1711.5 (131987)	17.93	18.38
	8RB-High (7)	1778.5 (132657)	17.94	18.02
		1745 (132322)	17.86	17.95
		1711.5 (131987)	17.98	18.11
	8RB-Middle (4)	1778.5 (132657)	17.96	18.08
		1745 (132322)	17.91	17.99
		1711.5 (131987)	18.00	18.09
	8RB-Low (0)	1778.5 (132657)	17.95	18.07
		1745 (132322)	17.88	17.98
		1711.5 (131987)	17.95	18.06
	15RB (0)	1778.5 (132657)	17.91	17.97

		1745 (132322)	17.85	17.91
		1711.5 (131987)	17.95	18.03

5MHz	1RB-High (24)	1777.5 (132647)	17.81	18.25
		1745 (132322)	17.72	18.12
		1712.5 (131997)	17.80	18.15
	1RB-Middle (12)	1777.5 (132647)	18.12	18.34
		1745 (132322)	17.96	18.40
		1712.5 (131997)	18.04	18.36
	1RB-Low (0)	1777.5 (132647)	17.82	18.15
		1745 (132322)	17.76	18.14
		1712.5 (131997)	17.86	18.18
	12RB-High (13)	1777.5 (132647)	17.93	17.95
		1745 (132322)	17.84	17.87
		1712.5 (131997)	17.95	17.99
	12RB-Middle (6)	1777.5 (132647)	17.99	18.04
		1745 (132322)	17.92	17.95
		1712.5 (131997)	18.02	18.06
	12RB-Low (0)	1777.5 (132647)	17.95	18.01
		1745 (132322)	17.90	17.91
		1712.5 (131997)	17.95	18.00

	25RB (0)	1777.5 (132647)	17.95	17.99
		1745 (132322)	17.86	17.91
		1712.5 (131997)	17.97	18.03

10MHz	1RB-High (49)	1775 (132622)	17.88	18.20
		1745 (132322)	17.81	18.15
		1715 (132022)	17.90	18.25
	1RB-Middle (24)	1775 (132622)	18.03	18.43
		1745 (132322)	18.00	18.36
		1715 (132022)	18.05	18.43
	1RB-Low (0)	1775 (132622)	17.86	18.29
		1745 (132322)	17.86	18.19
		1715 (132022)	17.94	18.37
	25RB-High (25)	1775 (132622)	17.96	18.01
		1745 (132322)	17.83	17.87
		1715 (132022)	17.97	18.08
	25RB-Middle (12)	1775 (132622)	18.00	18.02
		1745 (132322)	17.92	17.96
		1715 (132022)	17.96	18.02
	25RB-Low (0)	1775 (132622)	17.97	18.05
		1745 (132322)	17.93	17.98

		1715 (132022)	17.93	18.01
	50RB (0)	1775 (132622)	17.99	18.05
		1745 (132322)	17.91	17.95
		1715 (132022)	17.95	18.04

15MHz	1RB-High (74)	1772.5 (132597)	17.85	18.30
		1745 (132322)	17.81	18.14
		1717.5 (132047)	17.84	18.21
	1RB-Middle (37)	1772.5 (132597)	17.88	18.28
		1745 (132322)	17.90	18.25
		1717.5 (132047)	17.94	18.30
	1RB-Low (0)	1772.5 (132597)	17.84	18.25
		1745 (132322)	17.87	18.29
		1717.5 (132047)	17.93	18.23
	36RB-High (38)	1772.5 (132597)	17.93	17.99
		1745 (132322)	17.86	17.85
		1717.5 (132047)	17.98	18.03
	36RB-Middle (19)	1772.5 (132597)	17.97	17.98
		1745 (132322)	17.95	17.97
		1717.5 (132047)	18.00	18.00
	36RB-Low (0)	1772.5 (132597)	17.96	17.98

		1745 (132322)	17.96	17.96
		1717.5 (132047)	17.98	18.03
	75RB (0)	1772.5 (132597)	17.92	17.99
		1745 (132322)	17.89	17.92
		1717.5 (132047)	17.95	18.02

20MHz	1RB-High (99)	1770 (132572)	17.55	18.16
		1745 (132322)	17.47	17.96
		1720 (132072)	17.65	18.19
	1RB-Middle (50)	1770 (132572)	17.92	18.49
		1745 (132322)	17.86	18.39
		1720 (132072)	17.98	18.56
	1RB-Low (0)	1770 (132572)	17.54	18.13
		1745 (132322)	17.59	18.06
		1720 (132072)	17.66	18.21
	50RB-High (50)	1770 (132572)	17.77	17.83
		1745 (132322)	17.68	17.69
		1720 (132072)	17.85	17.98
	50RB-Middle (25)	1770 (132572)	17.82	17.89
		1745 (132322)	17.81	17.84
		1720 (132072)	17.87	17.96

	50RB-Low (0)	1770 (132572)	17.87	17.93
		1745 (132322)	17.86	17.88
		1720 (132072)	17.89	17.97
	100RB (0)	1770 (132572)	17.80	17.80
		1745 (132322)	17.77	17.80
		1720 (132072)	17.88	17.93

11.4 WIFI and BT Measurement result

11.4.1 WIFI2.4G receiver off

2.4GHz										
FCC										tune up
802.11b	Channel\data	1Mbps	2Mbps	5.5Mbps	11Mbps					
WLAN2450	11(2462MHz)	17.75	/	/	/					**19.00**
	6(2437(MHz)	18.07	17.98	18.06	18.03					**19.00**
	1(2412MHz)	17.96	/	/	/					**19.00**
802.11g	Channel\data	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
WLAN2450	11(2462MHz)	11.49	/	/	/	/	/	/	/	**13.00**
	6(2437(MHz)	17.78	17.56	17.54	17.55	17.42	17.32	17.69	17.68	**19.00**
	1(2412MHz)	12.67								**14.00**
802.11n-20MHz	Channel\data	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
WLAN2450	11(2462MHz)	11.29						11.35		**13.00**
	6(2437(MHz)	17.39	17.38	17.41	17.38	17.37	17.52	17.57	17.55	**19.00**
	1(2412MHz)	12.56						11.63		**14.00**

11.4.2 WIFI2.4G receiver on

2.4GHz										
FCC										tune up
802.11b	Channel\data	1Mbps	2Mbps	5.5Mbps	11Mbps					
WLAN2450	11(2462MHz)	12.79	12.76	/	/					14.00
	6(2437(MHz)	13.06	13.08	12.91	12.88					14.00
	1(2412MHz)	12.94	12.94	/	/					14.00
802.11g	Channel\data	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
WLAN2450	11(2462MHz)	11.37	/	/	/	/	/	/	/	13.00
	6(2437(MHz)	12.75	/	/	/	/	/	/	/	14.00
	1(2412MHz)	12.83	12.54	12.65	12.63	12.59	12.55	12.68	12.74	14.00
802.11n-20MHz	Channel\data	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
WLAN2450	11(2462MHz)	11.35								13.00
	6(2437(MHz)	12.75	12.42	12.46	12.53	12.45	12.69	12.71	12.68	14.00
	1(2412MHz)	12.46								14.00

11.4.3 WIFI2.4G hotspot on

2.4GHz										
FCC										tune up
802.11b	Channel\data	1Mbps	2Mbps	5.5Mbps	11Mbps					
WLAN2450	11(2462MHz)	15.87	/	15.68	/					17
	6(2437(MHz)	15.95		16.00						17
	1(2412MHz)	15.98	15.96	16.01	15.98					17
802.11g	Channel\data	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
WLAN2450	11(2462MHz)	11.35	/	/	/	/	/	/	/	13
	6(2437(MHz)	15.76	15.72	15.69	15.41	15.48	15.51	15.72	15.69	17
	1(2412MHz)	12.77								14
802.11n-20MHz	Channel\data	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
WLAN2450	11(2462MHz)	11.29								13
	6(2437(MHz)	15.57	15.45	15.34	15.37	15.39	15.56	15.55	15.54	17
	1(2412MHz)	12.72								14

11.4.4 BT

GFSK			EDR2M-4_DQPSK			EDR3M-8DPSK			Tune up
Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	
11.32	10.96	10.77	10.74	10.14	10.93	10.98	10.36	10.94	**12.00**

12 Simultaneous TX SAR Considerations

12.1 Transmit Antenna Separation Distances

The detail for transmit antenna separation distances is described in the additional document:
Appendix to test report No.I22Z61923-SEM01
The photos of SAR test

12.2 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	< 25mm	< 25mm	< 25mm	> 25mm	> 25mm	< 25mm
ANT1	< 25mm	< 25mm	>25mm	< 25mm	> 25mm	< 25mm
ANT2	< 25mm	< 25mm	< 25mm	> 25mm	< 25mm	> 25mm
ANT7	< 25mm	< 25mm	> 25mm	< 25mm	< 25mm	> 25mm

13 Evaluation of Simultaneous

All the Simultaneous Transmission Possibilities are as below table:

NO.	Simultaneous Tx Combination	Head	Body
1	GSM Voice(Ant 1) + BT	Yes	Yes
2	GSM DATA(Ant 1) + BT	N/A	Yes
3	GSM Voice(Ant 2) + BT	Yes	Yes
4	GSM DATA (Ant 2)+ BT	N/A	Yes
5	GSM Voice(Ant 1) + WiFi2.4G	Yes	Yes
6	GSM DATA(Ant 1) + WiFi2.4G	N/A	Yes
7	GSM Voice(Ant 2) + WiFi2.4G	Yes	Yes
8	GSM DATA(Ant 2) + WiFi2.4G	N/A	Yes
9	UMTS (Ant 1) + BT	Yes	Yes
10	UMTS (Ant 2) + BT	Yes	Yes
11	UMTS (Ant 1) + WiFi2.4G	Yes	Yes
12	UMTS (Ant 2) + WiFi2.4G	Yes	Yes
13	LTE (Ant 1) + WiFi2.4G	Yes*	Yes*
14	LTE (Ant 1) + BT	Yes	Yes*
15	LTE (Ant 2) + WiFi2.4G	Yes*	Yes*
16	LTE (Ant 2) + BT	Yes	Yes*

1) WiFi 2.4G and Bluetooth can’t transmit simultaneously.
2) 2G&3G&4G main antenna(Ant1) and second antenna(Ant2) can’t transmit simultaneously
3) * VoLTE or pre-installed VOIP applications are considered
4) Held to ear configurations are not applicable to Bluetooth and therefore were not considered for simultaneous transmission.
5) The device does not support DTM function.

13.1 Main antenna

Reported SAR 1g (W/kg)																	
State		1												2	3	1+2	1+3
Head		G850	G1900	W1900	W1700	W850	LTE B2	LTE B4	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66	WiFi 2.4G	BT		
Cheek	L	0.25	0.09	0.23	0.13	0.30	0.32	0.13	0.27	0.13	0.31	0.13	0.08	0.23	0.09	0.55	0.41
Tilt	L	0.14	0.00	0.11	0.07	0.16	0.14	0.07	0.22	0.09	0.21	0.13	0.03	0.10	0.00	0.32	0.22
Cheek	R	0.15	0.00	0.19	0.15	0.18	0.29	0.07	0.45	0.09	0.17	0.28	0.11	0.06	0.06	0.51	0.51
Tilt	R	0.08	0.00	0.12	0.08	0.12	0.17	0.06	0.19	0.00	0.10	0.14	0.07	0.05	0.00	0.24	0.19
State		1												2	3	1+2	1+3
Body		G850	G1900	W1900	W1700	W850	LTE B2	LTE B4	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66	WiFi 2.4G	BT		
Front	10mm	0.21	0.14	0.13	0.12	0.29	0.16	0.15	0.12	0.11	0.13	0.08	0.10	0.08	0.03	0.37	0.32
Rear	10mm	0.44	0.23	0.25	0.26	0.35	0.28	0.25	0.20	0.14	0.24	0.13	0.20	0.16	0.05	0.60	0.40
Left	10mm	0.30	0.00	0.04	0.04	0.30	0.05	0.06	0.05	0.12	0.07	0.12	0.05	0.00	0.00	0.30	0.30
Right	10mm	0.11	0.08	0.10	0.06	0.10	0.11	0.08	0.17	0.07	0.09	0.00	0.08	0.09	0.03	0.26	0.20
Bottom	10mm	0.14	0.24	0.23	0.28	0.13	0.28	0.28	0.10	0.07	0.13	0.07	0.24		0.00	0.28	0.28
Top	10mm													0.03	0.00	0.03	0.00
State		1												2	3	1+2	1+3
Body		G850	G1900	W1900	W1700	W850	LTE B2	LTE B4	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66	WiFi 2.4G	BT		
Front	15mm	0.20	0.12	0.18	0.12	0.18	0.25	0.12	0.14	0.08	0.21	0.10	0.15	0.08	0.03	0.33	0.28
Rear	15mm	0.25	0.19	0.34	0.24	0.28	0.39	0.23	0.20	0.12	0.27	0.17	0.31	0.16	0.05	0.55	0.44

13.2 Second antenna

Reported SAR 1g (W/kg)																	
State		1												2	3	1+2	1+3
Head		G850	G1900	W1900	W1700	W850	LTE B2	LTE B4	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66	WiFi 2.4G	BT		
Cheek	L	0.61	0.16	0.37	0.53	0.56	0.32	0.47	0.32	0.31	0.35	0.20	0.40	0.23	0.09	0.84	0.65
Tilt	L	0.39	0.21	0.45	0.75	0.40	0.38	0.71	0.39	0.31	0.25	0.20	0.57	0.10	0.00	0.85	0.75
Cheek	R	0.41	0.14	0.43	0.69	0.40	0.44	0.61	0.85	0.34	0.32	0.60	0.55	0.06	0.06	0.91	0.91
Tilt	R	0.39	0.21	0.59	0.91	0.37	0.71	0.85	0.85	0.30	0.26	0.37	0.80	0.05	0.00	0.96	0.91
State		1												2	3	1+2	1+3
Body		G850	G1900	W1900	W1700	W850	LTE B2	LTE B4	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66	WiFi 2.4G	BT		
Front	10mm	0.09	0.07	0.08	0.08	0.14	0.11	0.17	0.08	0.09	0.09	0.04	0.18	0.08	0.03	0.26	0.21
Rear	10mm	0.13	0.14	0.17	0.12	0.25	0.21	0.21	0.20	0.14	0.16	0.17	0.31	0.16	0.05	0.47	0.36
Left	10mm	0.00	0.00	0.05	0.04	0.00	0.06	0.08	0.19	0.05	0.00	0.17	0.09	0.00	0.00	0.19	0.19
Right	10mm	0.00	0.00	0.00	0.00	0.08	0.00	0.11	0.05	0.07	0.00	0.00	0.00	0.09	0.03	0.20	0.14
Bottom	10mm														0.00	0.00	0.00
Top	10mm	0.07	0.26	0.24	0.22	0.15	0.28	0.36	0.12	0.07	0.09	0.05	0.40	0.03	0.00	0.43	0.40
State		1												2	3	1+2	1+3
Body		G850	G1900	W1900	W1700	W850	LTE B2	LTE B4	LTE B7	LTE B13	LTE B26	LTE B38	LTE B66	WiFi 2.4G	BT		
Front	15mm	0.07	0.10	0.12	0.19	0.09	0.12	0.16	0.11	0.18	0.07	0.05	0.17	0.08	0.03	0.27	0.22
Rear	15mm	0.16	0.24	0.24	0.26	0.16	0.22	0.21	0.21	0.26	0.11	0.17	0.24	0.16	0.05	0.42	0.31

Note：VoLTE or pre-installed VOIP applications are considered.

Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

14 SAR Test Result

Note:

KDB 447498 D01 General RF Exposure Guidance:

For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor

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:

≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

≤ 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

≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 941225 D01 SAR test for 3G devices:

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

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among 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 for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.

Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low,Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.

Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.

Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the

group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

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.

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.

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.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

Table 15.1: Duty Cycle

Mode	Duty Cycle
Speech for GSM	1:8.3
GPRS&EGPRS 1 Slot	1:8.3
GPRS&EGPRS 2 Slot	1:4
GPRS&EGPRS 3 Slot	1:2.67
GPRS&EGPRS 4 Slot	1:2
WCDMA&LTE FDD	1:1
TDD PC3	1:1.58
TDD PC2	1:2.309

14.1 SAR results for 2G/3G/4G-Main antenna

B2=NVT HB496590EFW-F

B3=SCUD HB496590EFW

B4=SCUD HB496590EFW-F

EUT State	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
REV on	Head	GSM850	251	848.8	Voice	Cheek	0mm	\	32.61	33.70	0.141	**0.18**	0.111	**0.14**	0.04
REV on	Head	GSM850	190	836.6	Voice	Cheek	0mm	\	32.64	33.70	0.179	**0.23**	0.142	**0.18**	-0.08
REV on	Head	GSM850	128	824.2	Voice	Cheek	0mm	F.1	32.70	33.70	0.201	**0.25**	0.159	**0.20**	0.16
REV on	Head	GSM850	190	836.6	Voice	Tilt Left	0mm	\	32.64	33.70	0.108	**0.14**	0.089	**0.11**	-0.07
REV on	Head	GSM850	190	836.6	Voice	Cheek	0mm	\	32.64	33.70	0.118	**0.15**	0.093	**0.12**	0.14
REV on	Head	GSM850	190	836.6	Voice	Tilt	0mm	\	32.64	33.70	0.061	**0.08**	0.045	**0.06**	0.18
Hotspot	Body	GSM850	190	836.6	GPRS(4TX)	Front	10mm	\	26.01	27.00	0.165	**0.21**	0.106	**0.13**	0.12
Hotspot	Body	GSM850	251	848.8	GPRS(4TX)	Rear	10mm	\	25.99	27.00	0.263	**0.33**	0.162	**0.20**	-0.14
Hotspot	Body	GSM850	190	836.6	GPRS(4TX)	Rear	10mm	\	26.01	27.00	0.325	**0.41**	0.202	**0.25**	-0.17
Hotspot	Body	GSM850	128	824.2	GPRS(4TX)	Rear	10mm	F.2	26.07	27.00	0.354	**0.44**	0.216	**0.27**	0.02
Hotspot	Body	GSM850	190	836.6	GPRS(4TX)	Left	10mm	\	26.01	27.00	0.241	**0.30**	0.138	**0.17**	0.1
Hotspot	Body	GSM850	190	836.6	GPRS(4TX)	Right	10mm	\	26.01	27.00	0.087	**0.11**	0.058	**0.07**	0.03
Hotspot	Body	GSM850	190	836.6	GPRS(4TX)	Bottom	10mm	\	26.01	27.00	0.114	**0.14**	0.070	**0.09**	-0.19
Hotspot	Body	GSM850	251	848.8	EGPRS(4TX)	Rear	10mm	\	18.10	19.10	0.256	**0.32**	0.140	**0.18**	0.04
Hotspot	Body	GSM850	128	824.2	GPRS(4TX)	Rear	10mm	SIM2	26.07	27.00	0.306	**0.38**	0.185	**0.23**	-0.09
Hotspot	Body	GSM850	128	824.2	GPRS(4TX)	Rear	10mm	B2	26.07	27.00	0.311	**0.39**	0.193	**0.24**	0.17
Hotspot	Body	GSM850	128	824.2	GPRS(4TX)	Rear	10mm	B3	26.07	27.00	0.304	**0.38**	0.182	**0.23**	-0.06
Hotspot	Body	GSM850	128	824.2	GPRS(4TX)	Rear	10mm	B4	26.07	27.00	0.323	**0.40**	0.207	**0.26**	-0.11
REV off	Body	GSM850	190	836.6	GPRS(3TX)	Front	15mm	\	28.29	29.30	0.162	**0.20**	0.113	**0.14**	-0.13
REV off	Body	GSM850	251	848.8	GPRS(3TX)	Rear	15mm	\	28.28	29.30	0.155	**0.20**	0.101	**0.13**	-0.14
REV off	Body	GSM850	190	836.6	GPRS(3TX)	Rear	15mm	\	28.29	29.30	0.191	**0.24**	0.125	**0.16**	0.16
REV off	Body	GSM850	128	824.2	GPRS(3TX)	Rear	15mm	F.3	28.33	29.30	0.199	**0.25**	0.129	**0.16**	-0.03
REV off	Body	GSM850	251	848.8	EGPRS(3TX)	Rear	15mm	\	20.88	21.80	0.171	**0.21**	0.112	**0.14**	0.04
REV on	Head	GSM1900	810	1909.8	Voice	Cheek	0mm	\	29.65	30.70	0.057	**0.07**	0.033	**0.04**	-0.11
REV on	Head	GSM1900	661	1880	Voice	Cheek	0mm	\	29.77	30.70	0.052	**0.06**	0.031	**0.04**	0.09
REV on	Head	GSM1900	512	1850.2	Voice	Cheek	0mm	F.4	29.92	30.70	0.073	**0.09**	0.049	**0.06**	0.05
REV on	Head	GSM1900	661	1880	Voice	Tilt Left	0mm	\	29.77	30.70	<0.01	<0.01	<0.01	<0.01	\
REV on	Head	GSM1900	661	1880	Voice	Cheek	0mm	\	29.77	30.70	<0.01	<0.01	<0.01	<0.01	\
REV on	Head	GSM1900	661	1880	Voice	Tilt	0mm	\	29.77	30.70	<0.01	<0.01	<0.01	<0.01	\
Hotspot	Body	GSM1900	661	1880	GPRS(4TX)	Front	10mm	\	21.40	22.20	0.117	**0.14**	0.074	**0.09**	0.11
Hotspot	Body	GSM1900	661	1880	GPRS(4TX)	Rear	10mm	\	21.40	22.20	0.194	**0.23**	0.110	**0.13**	0.16
Hotspot	Body	GSM1900	661	1880	GPRS(4TX)	Left	10mm	\	21.40	22.20	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	GSM1900	661	1880	GPRS(4TX)	Right	10mm	\	21.40	22.20	0.067	**0.08**	0.042	**0.05**	0.14
Hotspot	Body	GSM1900	810	1909.8	GPRS(4TX)	Bottom	10mm	\	21.30	22.20	0.188	**0.23**	0.105	**0.13**	0.12
Hotspot	Body	GSM1900	661	1880	GPRS(4TX)	Bottom	10mm	\	21.40	22.20	0.195	**0.23**	0.102	**0.12**	0.16
Hotspot	Body	GSM1900	512	1850.2	GPRS(4TX)	Bottom	10mm	F.5	21.53	22.20	0.209	**0.24**	0.115	**0.13**	-0.08
Hotspot	Body	GSM1900	810	1909.8	EGPRS(4TX)	Bottom	10mm	\	21.30	22.20	0.188	**0.23**	0.101	**0.12**	0.08
REV off	Body	GSM1900	661	1880	GPRS(3TX)	Front	15mm	\	24.31	25.20	0.096	**0.12**	0.059	**0.07**	0.15
REV off	Body	GSM1900	810	1909.8	GPRS(3TX)	Rear	15mm	\	24.25	25.20	0.146	**0.18**	0.089	**0.11**	0.12
REV off	Body	GSM1900	661	1880	GPRS(3TX)	Rear	15mm	\	24.31	25.20	0.140	**0.17**	0.093	**0.11**	0.04
REV off	Body	GSM1900	512	1850.2	GPRS(3TX)	Rear	15mm	F.6	24.45	25.20	0.164	**0.19**	0.100	**0.12**	0.04
REV off	Body	GSM1900	810	1909.8	EGPRS(3TX)	Rear	15mm	\	24.22	25.20	0.145	**0.18**	0.090	**0.11**	-0.18
REV on	Head	WCDMA1900	9538	1907.6	RMC	Cheek	0mm	\	24.16	25.00	0.161	**0.20**	0.098	**0.12**	0.19
REV on	Head	WCDMA1900	9400	1880	RMC	Cheek	0mm	\	24.08	25.00	0.180	**0.22**	0.105	**0.13**	0.05
REV on	Head	WCDMA1900	9262	1852.4	RMC	Cheek	0mm	F.7	24.13	25.00	0.190	**0.23**	0.117	**0.14**	-0.08
REV on	Head	WCDMA1900	9400	1880	RMC	Tilt Left	0mm	\	24.08	25.00	0.088	**0.11**	0.056	**0.07**	0.05
REV on	Head	WCDMA1900	9400	1880	RMC	Cheek	0mm	\	24.08	25.00	0.154	**0.19**	0.101	**0.12**	-0.13
REV on	Head	WCDMA1900	9400	1880	RMC	Tilt	0mm	\	24.08	25.00	0.099	**0.12**	0.063	**0.08**	0.04
Hotspot	Body	WCDMA1900	9400	1880	RMC	Front	10mm	\	19.22	20.00	0.110	**0.13**	0.068	**0.08**	-0.01
Hotspot	Body	WCDMA1900	9538	1907.6	RMC	Rear	10mm	\	19.12	20.00	0.200	**0.24**	0.115	**0.14**	-0.04
Hotspot	Body	WCDMA1900	9400	1880	RMC	Rear	10mm	F.8	19.22	20.00	0.210	**0.25**	0.123	**0.15**	-0.14
Hotspot	Body	WCDMA1900	9262	1852.4	RMC	Rear	10mm	\	19.17	20.00	0.206	**0.25**	0.118	**0.14**	-0.01
Hotspot	Body	WCDMA1900	9400	1880	RMC	Left	10mm	\	19.22	20.00	0.032	**0.04**	0.020	**0.02**	-0.12
Hotspot	Body	WCDMA1900	9400	1880	RMC	Right	10mm	\	19.22	20.00	0.084	**0.10**	0.048	**0.06**	0.04
Hotspot	Body	WCDMA1900	9538	1907.6	RMC	Bottom	10mm	\	19.12	20.00	0.187	**0.23**	0.108	**0.13**	-0.02
Hotspot	Body	WCDMA1900	9400	1880	RMC	Bottom	10mm	\	19.22	20.00	0.183	**0.22**	0.106	**0.13**	-0.05
Hotspot	Body	WCDMA1900	9262	1852.4	RMC	Bottom	10mm	\	19.17	20.00	0.186	**0.23**	0.108	**0.13**	-0.19
REV off	Body	WCDMA1900	9400	1880	RMC	Front	15mm	\	22.62	23.50	0.146	**0.18**	0.092	**0.11**	0.07
REV off	Body	WCDMA1900	9538	1907.6	RMC	Rear	15mm	F.9	22.56	23.50	0.276	**0.34**	0.165	**0.20**	0.13
REV off	Body	WCDMA1900	9400	1880	RMC	Rear	15mm	\	22.62	23.50	0.274	**0.34**	0.163	**0.20**	0.05
REV off	Body	WCDMA1900	9262	1852.4	RMC	Rear	15mm	\	22.58	23.50	0.256	**0.32**	0.154	**0.19**	0.17
REV on	Head	WCDMA1700	1513	1752.6	RMC	Cheek	0mm	\	24.07	24.90	0.098	**0.12**	0.062	**0.08**	0.18
REV on	Head	WCDMA1700	1412	1732.4	RMC	Cheek	0mm	\	24.02	24.90	0.106	**0.13**	0.067	**0.08**	-0.19
REV on	Head	WCDMA1700	1312	1712.4	RMC	Cheek	0mm	\	24.11	24.90	0.096	**0.12**	0.060	**0.07**	0.04
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Left	0mm	\	24.02	24.90	0.057	**0.07**	0.036	**0.04**	0
REV on	Head	WCDMA1700	15.13	1752.6	RMC	Cheek	0mm	F.10	24.07	24.90	0.120	**0.15**	0.078	**0.09**	0.01
REV on	Head	WCDMA1700	1412	1732.4	RMC	Cheek	0mm	\	24.02	24.90	0.113	**0.14**	0.074	**0.09**	-0.19
REV on	Head	WCDMA1700	1312	1712.4	RMC	Cheek	0mm	\	24.11	24.90	0.107	**0.13**	0.070	**0.08**	0.02
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt	0mm	\	24.02	24.90	0.068	**0.08**	0.042	**0.05**	-0.13
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Front	10mm	\	20.04	20.90	0.100	**0.12**	0.066	**0.08**	-0.15
Hotspot	Body	WCDMA1700	15.13	1752.6	RMC	Rear	10mm	\	19.89	20.90	0.210	**0.26**	0.120	**0.15**	-0.12
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Rear	10mm	\	20.04	20.90	0.192	**0.23**	0.117	**0.14**	0.03
Hotspot	Body	WCDMA1700	1312	1712.4	RMC	Rear	10mm	\	19.98	20.90	0.181	**0.22**	0.111	**0.14**	-0.14
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Left	10mm	\	20.04	20.90	0.035	**0.04**	0.022	**0.03**	-0.07
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Right	10mm	\	20.04	20.90	0.047	**0.06**	0.028	**0.03**	-0.1
Hotspot	Body	WCDMA1700	15.13	1752.6	RMC	Bottom	10mm	F.11	19.89	20.90	0.218	**0.28**	0.123	**0.16**	0.07
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Bottom	10mm	\	20.04	20.90	0.200	**0.24**	0.113	**0.14**	0.03
Hotspot	Body	WCDMA1700	1312	1712.4	RMC	Bottom	10mm	\	19.98	20.90	0.184	**0.23**	0.103	**0.13**	-0.14
REV off	Body	WCDMA1700	1412	1732.4	RMC	Front	15mm	\	22.56	23.40	0.096	**0.12**	0.064	**0.08**	-0.02
REV off	Body	WCDMA1700	15.13	1752.6	RMC	Rear	15mm	F.12	22.53	23.40	0.198	**0.24**	0.124	**0.15**	0.05
REV off	Body	WCDMA1700	1412	1732.4	RMC	Rear	15mm	\	22.56	23.40	0.177	**0.21**	0.111	**0.13**	-0.18
REV off	Body	WCDMA1700	1312	1712.4	RMC	Rear	15mm	\	22.52	23.40	0.165	**0.20**	0.105	**0.13**	-0.04

REV on	Head	WCDMA850	4233	846.6	RMC	Cheek	0mm	\	24.06	25.00	0.216	**0.27**	0.164	**0.20**	0
REV on	Head	WCDMA850	4183	836.6	RMC	Cheek	0mm	\	24.03	25.00	0.235	**0.29**	0.177	**0.22**	0.15
REV on	Head	WCDMA850	4132	826.4	RMC	Cheek	0mm	F.13	24.09	25.00	0.246	**0.30**	0.187	**0.23**	0.02
REV on	Head	WCDMA850	4183	836.6	RMC	Tilt Left	0mm	\	24.03	25.00	0.130	**0.16**	0.105	**0.13**	-0.12
REV on	Head	WCDMA850	4183	836.6	RMC	Cheek	0mm	\	24.03	25.00	0.144	**0.18**	0.109	**0.14**	-0.05
REV on	Head	WCDMA850	4183	836.6	RMC	Tilt	0mm	\	24.03	25.00	0.092	**0.12**	0.072	**0.09**	0.11
Hotspot	Body	WCDMA850	4183	836.6	RMC	Front	10mm	\	23.12	24.00	0.233	**0.29**	0.153	**0.19**	-0.02
Hotspot	Body	WCDMA850	4233	846.6	RMC	Rear	10mm	\	23.09	24.00	0.249	**0.31**	0.156	**0.19**	0.09
Hotspot	Body	WCDMA850	4183	836.6	RMC	Rear	10mm	\	23.12	24.00	0.275	**0.34**	0.174	**0.21**	-0.08
Hotspot	Body	WCDMA850	4132	826.4	RMC	Rear	10mm	F.14	23.10	24.00	0.285	**0.35**	0.178	**0.22**	0.05
Hotspot	Body	WCDMA850	4183	836.6	RMC	Left	10mm	\	23.12	24.00	0.249	**0.30**	0.138	**0.17**	0.09
Hotspot	Body	WCDMA850	4183	836.6	RMC	Right	10mm	\	23.12	24.00	0.082	**0.10**	0.057	**0.07**	0.04
Hotspot	Body	WCDMA850	4183	836.6	RMC	Bottom	10mm	\	23.12	24.00	0.110	**0.13**	0.070	**0.09**	0.18
REV off	Body	WCDMA850	4183	836.6	RMC	Front	15mm	\	24.03	25.00	0.144	**0.18**	0.105	**0.13**	0.01
REV off	Body	WCDMA850	4233	846.6	RMC	Rear	15mm	\	24.06	25.00	0.200	**0.25**	0.130	**0.16**	-0.11
REV off	Body	WCDMA850	4183	836.6	RMC	Rear	15mm	\	24.03	25.00	0.219	**0.27**	0.140	**0.18**	-0.01
REV off	Body	WCDMA850	4132	826.4	RMC	Rear	15mm	F.15	24.09	25.00	0.225	**0.28**	0.147	**0.18**	0.12
REV on	Head	LTE B2	18900	1880	1RB-Mid	Cheek	0mm	F.16	23.46	24.50	0.252	**0.32**	0.153	**0.19**	-0.15
REV on	Head	LTE B2	18900	1880	1RB-Mid	Tilt Left	0mm	\	23.46	24.50	0.110	**0.14**	0.072	**0.09**	0.19
REV on	Head	LTE B2	18900	1880	1RB-Mid	Cheek	0mm	\	23.46	24.50	0.232	**0.29**	0.147	**0.19**	-0.16
REV on	Head	LTE B2	18900	1880	1RB-Mid	Tilt	0mm	\	23.46	24.50	0.135	**0.17**	0.085	**0.11**	0
REV on	Head	LTE B2	19100	1900	50RB-Low	Cheek	0mm	\	22.55	23.50	0.139	**0.17**	0.082	**0.10**	0.19
REV on	Head	LTE B2	19100	1900	50RB-Low	Tilt Left	0mm	\	22.55	23.50	0.083	**0.10**	0.052	**0.06**	-0.06
REV on	Head	LTE B2	19100	1900	50RB-Low	Cheek	0mm	\	22.55	23.50	0.202	**0.25**	0.128	**0.16**	-0.16
REV on	Head	LTE B2	19100	1900	50RB-Low	Tilt	0mm	\	22.55	23.50	0.099	**0.12**	0.062	**0.08**	0.01
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Front	10mm	\	19.09	20.00	0.132	**0.16**	0.087	**0.11**	-0.13
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Rear	10mm	\	19.09	20.00	0.224	**0.28**	0.123	**0.15**	0.12
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Left	10mm	\	19.09	20.00	0.042	**0.05**	0.022	**0.03**	-0.05
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Right	10mm	\	19.09	20.00	0.086	**0.11**	0.052	**0.06**	0.13
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Bottom	10mm	F.17	19.09	20.00	0.230	**0.28**	0.130	**0.16**	0.12
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Front	10mm	\	19.12	20.00	0.140	**0.17**	0.091	**0.11**	-0.02
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Rear	10mm	\	19.12	20.00	0.140	**0.17**	0.129	**0.16**	0.12
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Left	10mm	\	19.12	20.00	0.041	**0.05**	0.026	**0.03**	-0.12
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Right	10mm	\	19.12	20.00	0.090	**0.11**	0.055	**0.07**	-0.1
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Bottom	10mm	\	19.12	20.00	0.228	**0.28**	0.129	**0.16**	-0.14
REV off	Body	LTE B2	18900	1880	1RB-Mid	Front	15mm	\	22.98	24.00	0.134	**0.17**	0.080	**0.10**	-0.11
REV off	Body	LTE B2	18900	1880	1RB-Mid	Rear	15mm	F.18	22.98	24.00	0.307	**0.39**	0.183	**0.23**	-0.05
REV off	Body	LTE B2	19100	1900	50RB-Low	Front	15mm	\	22.54	24.00	0.177	**0.25**	0.109	**0.15**	-0.05
REV off	Body	LTE B2	19100	1900	50RB-Low	Rear	15mm	\	22.54	24.00	0.262	**0.37**	0.157	**0.22**	-0.07
REV on	Head	LTE B4	20175	1732.5	1RB-Mid	Cheek	0mm	F.19	23.46	24.50	0.102	**0.13**	0.065	**0.08**	0.06
REV on	Head	LTE B4	20175	1732.5	1RB-Mid	Tilt Left	0mm	\	23.46	24.50	0.057	**0.07**	0.038	**0.05**	-0.13
REV on	Head	LTE B4	20175	1732.5	1RB-Mid	Cheek	0mm	\	23.46	24.50	0.055	**0.07**	0.036	**0.05**	0.09
REV on	Head	LTE B4	20175	1732.5	1RB-Mid	Tilt	0mm	\	23.46	24.50	0.049	**0.06**	0.032	**0.04**	-0.15
REV on	Head	LTE B4	20300	1745	50RB-Middle	Cheek	0mm	\	22.41	23.50	0.073	**0.09**	0.048	**0.06**	0.04
REV on	Head	LTE B4	20300	1745	50RB-Middle	Tilt Left	0mm	\	22.41	23.50	0.054	**0.07**	0.035	**0.04**	-0.13
REV on	Head	LTE B4	20300	1745	50RB-Middle	Cheek	0mm	\	22.41	23.50	0.047	**0.06**	0.031	**0.04**	0.07
REV on	Head	LTE B4	20300	1745	50RB-Middle	Tilt	0mm	\	22.41	23.50	0.038	**0.05**	0.025	**0.03**	-0.14
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Front	10mm	\	20.46	21.50	0.097	**0.12**	0.064	**0.08**	-0.16
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Rear	10mm	\	20.46	21.50	0.195	**0.25**	0.118	**0.15**	0.03
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Left	10mm	\	20.46	21.50	0.044	**0.06**	0.027	**0.03**	-0.19
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Right	10mm	\	20.46	21.50	0.064	**0.08**	0.039	**0.05**	0.17
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Bottom	10mm	\	20.46	21.50	0.214	**0.27**	0.120	**0.15**	0.02
Hotspot	Body	LTE B4	20175	1732.5	50RB-High	Front	10mm	\	20.37	21.50	0.116	**0.15**	0.076	**0.10**	-0.07
Hotspot	Body	LTE B4	20175	1732.5	50RB-High	Rear	10mm	\	20.37	21.50	0.192	**0.25**	0.118	**0.15**	-0.05
Hotspot	Body	LTE B4	20175	1732.5	50RB-High	Left	10mm	\	20.37	21.50	0.044	**0.06**	0.025	**0.03**	0.09
Hotspot	Body	LTE B4	20175	1732.5	50RB-High	Right	10mm	\	20.37	21.50	0.062	**0.08**	0.038	**0.05**	0.16
Hotspot	Body	LTE B4	20175	1732.5	50RB-High	Bottom	10mm	F.20	20.37	21.50	0.216	**0.28**	0.122	**0.16**	0.18
REV off	Body	LTE B4	20175	1732.5	1RB-Mid	Front	15mm	\	23.46	24.50	0.097	**0.12**	0.064	**0.08**	0.07
REV off	Body	LTE B4	20175	1732.5	1RB-Mid	Rear	15mm	F.21	23.46	24.50	0.182	**0.23**	0.113	**0.14**	-0.1
REV off	Body	LTE B4	20300	1745	50RB-Mid	Front	15mm	\	22.41	23.50	0.084	**0.11**	0.054	**0.07**	-0.05
REV off	Body	LTE B4	20300	1745	50RB-Mid	Rear	15mm	\	22.41	23.50	0.149	**0.19**	0.093	**0.12**	0.11
REV on	Head	LTE B7	21350	2560	1RB-Mid	Cheek	0mm	\	23.13	23.90	0.229	**0.27**	0.134	**0.16**	-0.16
REV on	Head	LTE B7	21350	2560	1RB-Mid	Tilt Left	0mm	\	23.13	23.90	0.184	**0.22**	0.100	**0.12**	-0.01
REV on	Head	LTE B7	21350	2560	1RB-Mid	Cheek	0mm	F.22	23.13	23.90	0.378	**0.45**	0.203	**0.24**	0.03
REV on	Head	LTE B7	21350	2560	1RB-Mid	Tilt	0mm	\	23.13	23.90	0.157	**0.19**	0.083	**0.10**	-0.11
REV on	Head	LTE B7	21350	2560	50RB-Middle	Cheek	0mm	\	22.17	22.90	0.159	**0.19**	0.093	**0.11**	-0.03
REV on	Head	LTE B7	21350	2560	50RB-Middle	Tilt Left	0mm	\	22.17	22.90	0.157	**0.19**	0.083	**0.10**	0.18
REV on	Head	LTE B7	21350	2560	50RB-Middle	Cheek	0mm	\	22.17	22.90	0.307	**0.36**	0.163	**0.19**	-0.07
REV on	Head	LTE B7	21350	2560	50RB-Middle	Tilt	0mm	\	22.17	22.90	0.121	**0.14**	0.062	**0.07**	0.12
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Front	10mm	\	18.22	18.90	0.106	**0.12**	0.057	**0.07**	-0.11
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Rear	10mm	F.23	18.22	18.90	0.168	**0.20**	0.093	**0.11**	-0.03
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Left	10mm	\	18.22	18.90	0.042	**0.05**	0.014	**0.02**	-0.03
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Right	10mm	\	18.22	18.90	0.144	**0.17**	0.072	**0.08**	-0.01
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Bottom	10mm	\	18.22	18.90	0.084	**0.10**	0.037	**0.04**	0.16
Hotspot	Body	LTE B7	20850	2510	50RB-High	Front	10mm	\	18.17	18.90	0.104	**0.12**	0.056	**0.07**	-0.06
Hotspot	Body	LTE B7	20850	2510	50RB-High	Rear	10mm	\	18.17	18.90	0.164	**0.19**	0.091	**0.11**	-0.09
Hotspot	Body	LTE B7	20850	2510	50RB-High	Left	10mm	\	18.17	18.90	0.045	**0.05**	0.014	**0.02**	0.19
Hotspot	Body	LTE B7	20850	2510	50RB-High	Right	10mm	\	18.17	18.90	0.146	**0.17**	0.072	**0.09**	-0.11
Hotspot	Body	LTE B7	20850	2510	50RB-High	Bottom	10mm	\	18.17	18.90	0.082	**0.10**	0.042	**0.05**	0.19
REV off	Body	LTE B7	21350	2560	1RB-Mid	Front	15mm	\	21.34	21.90	0.120	**0.14**	0.071	**0.08**	0.15
REV off	Body	LTE B7	21350	2560	1RB-Mid	Rear	15mm	F.24	21.34	21.90	0.177	**0.20**	0.099	**0.11**	-0.12
REV off	Body	LTE B7	21350	2560	50RB-Mid	Front	15mm	\	21.24	21.90	0.115	**0.13**	0.067	**0.08**	0.08
REV off	Body	LTE B7	21350	2560	50RB-Mid	Rear	15mm	\	21.24	21.90	0.165	**0.19**	0.090	**0.10**	-0.1

REV on	Head	LTE B13	23230	782	1RB-Mid	Cheek	0mm	F.25	23.72	24.80	0.102	**0.13**	0.079	**0.10**	-0.07
REV on	Head	LTE B13	23230	782	1RB-Mid	Tilt Left	0mm	\	23.72	24.80	0.068	**0.09**	0.054	**0.07**	-0.02
REV on	Head	LTE B13	23230	782	1RB-Mid	Cheek	0mm	\	23.72	24.80	0.073	**0.09**	0.054	**0.07**	0.18
REV on	Head	LTE B13	23230	782	1RB-Mid	Tilt	0mm	\	23.72	24.80	<0.01	**<0.01**	<0.01	**<0.01**	\
REV on	Head	LTE B13	23230	782	25RB-Mid	Cheek	0mm	\	22.77	23.80	0.075	**0.10**	0.058	**0.07**	0.07
REV on	Head	LTE B13	23230	782	25RB-Mid	Tilt Left	0mm	\	22.77	23.80	<0.01	**<0.01**	<0.01	**<0.01**	\
REV on	Head	LTE B13	23230	782	25RB-Mid	Cheek	0mm	\	22.77	23.80	0.059	**0.07**	0.044	**0.06**	0.09
REV on	Head	LTE B13	23230	782	25RB-Mid	Tilt	0mm	\	22.77	23.80	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B13	23230	782	1RB-Mid	Front	10mm	\	22.75	23.80	0.086	**0.11**	0.054	**0.07**	-0.16
Hotspot	Body	LTE B13	23230	782	1RB-Mid	Rear	10mm	F.26	22.75	23.80	0.110	**0.14**	0.071	**0.09**	-0.19
Hotspot	Body	LTE B13	23230	782	1RB-Mid	Left	10mm	\	22.75	23.80	0.097	**0.12**	0.065	**0.08**	0.16
Hotspot	Body	LTE B13	23230	782	1RB-Mid	Right	10mm	\	22.75	23.80	0.053	**0.07**	0.034	**0.04**	-0.16
Hotspot	Body	LTE B13	23230	782	1RB-Mid	Bottom	10mm	\	22.75	23.80	0.055	**0.07**	0.033	**0.04**	0.12
Hotspot	Body	LTE B13	23230	782	25RB-High	Front	10mm	\	22.72	23.80	0.083	**0.11**	0.053	**0.07**	-0.02
Hotspot	Body	LTE B13	23230	782	25RB-High	Rear	10mm	\	22.72	23.80	0.105	**0.13**	0.068	**0.09**	-0.04
Hotspot	Body	LTE B13	23230	782	25RB-High	Left	10mm	\	22.72	23.80	0.095	**0.12**	0.064	**0.08**	-0.08
Hotspot	Body	LTE B13	23230	782	25RB-High	Right	10mm	\	22.72	23.80	0.050	**0.06**	0.033	**0.04**	0.03
Hotspot	Body	LTE B13	23230	782	25RB-High	Bottom	10mm	\	22.72	23.80	0.052	**0.07**	0.030	**0.04**	-0.04
REV off	Body	LTE B13	23230	782	1RB-Mid	Front	15mm	\	23.72	24.80	0.066	**0.08**	0.045	**0.06**	0.03
REV off	Body	LTE B13	23230	782	1RB-Mid	Rear	15mm	F.27	23.72	24.80	0.095	**0.12**	0.065	**0.08**	0.05
REV off	Body	LTE B13	23230	782	25RB-Mid	Front	15mm	\	22.77	23.80	0.051	**0.06**	0.034	**0.04**	-0.03
REV off	Body	LTE B13	23230	782	25RB-Mid	Rear	15mm	\	22.77	23.80	0.073	**0.09**	0.050	**0.06**	-0.11
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Cheek	0mm	F.28	23.55	25.00	0.223	**0.31**	0.169	**0.24**	0.19
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Tilt Left	0mm	\	23.55	25.00	0.147	**0.21**	0.111	**0.15**	-0.13
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Cheek	0mm	\	23.55	25.00	0.125	**0.17**	0.093	**0.13**	-0.05
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Tilt	0mm	\	23.55	25.00	0.070	**0.10**	0.056	**0.08**	0.09
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Cheek	0mm	\	22.61	24.00	0.157	**0.22**	0.121	**0.17**	0
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Tilt Left	0mm	\	22.61	24.00	0.109	**0.15**	0.083	**0.11**	-0.13
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Cheek	0mm	\	22.61	24.00	0.102	**0.14**	0.076	**0.10**	0.14
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Tilt	0mm	\	22.61	24.00	0.064	**0.09**	0.050	**0.07**	0.1
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Front	10mm	\	23.66	24.00	0.119	**0.13**	0.078	**0.08**	-0.07
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Rear	10mm	\	23.66	24.00	0.221	**0.24**	0.136	**0.15**	-0.16
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Left	10mm	\	23.66	24.00	0.064	**0.07**	0.043	**0.05**	0.01
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Right	10mm	\	23.66	24.00	0.085	**0.09**	0.058	**0.06**	-0.16
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Bottom	10mm	\	23.66	24.00	0.121	**0.13**	0.073	**0.08**	0.02
Hotspot	Body	LTE B26	26775	822.5	36RB-Middle	Front	10mm	\	22.68	23.00	0.123	**0.13**	0.082	**0.09**	-0.05
Hotspot	Body	LTE B26	26775	822.5	36RB-Middle	Rear	10mm	F.29	22.68	23.00	0.224	**0.24**	0.138	**0.15**	-0.11
Hotspot	Body	LTE B26	26775	822.5	36RB-Middle	Left	10mm	\	22.68	23.00	0.062	**0.07**	0.041	**0.04**	0.15
Hotspot	Body	LTE B26	26775	822.5	36RB-Middle	Right	10mm	\	22.68	23.00	0.069	**0.07**	0.046	**0.05**	0.08
Hotspot	Body	LTE B26	26775	822.5	36RB-Middle	Bottom	10mm	\	22.68	23.00	0.097	**0.10**	0.058	**0.06**	0.03
REV off	Body	LTE B26	26775	822.5	1RB-Mid	Front	15mm	\	23.55	25.00	0.148	**0.21**	0.107	**0.15**	0.19
REV off	Body	LTE B26	26775	822.5	1RB-Mid	Rear	15mm	F.30	23.55	25.00	0.195	**0.27**	0.127	**0.18**	-0.05
REV off	Body	LTE B26	26775	822.5	36RB-Mid	Front	15mm	\	22.61	24.00	0.126	**0.17**	0.091	**0.13**	0.13
REV off	Body	LTE B26	26775	822.5	36RB-Mid	Rear	15mm	\	22.61	24.00	0.158	**0.22**	0.102	**0.14**	0.06
REV on	Head	LTE B38	37850	2580	1RB-Mid	Cheek	0mm	\	23.67	24.00	0.120	**0.13**	0.067	**0.07**	-0.14
REV on	Head	LTE B38	37850	2580	1RB-Mid	Tilt Left	0mm	\	23.67	24.00	0.122	**0.13**	0.062	**0.07**	0.17
REV on	Head	LTE B38	38150	2610	1RB-Mid	Cheek	0mm	F.31	23.53	24.00	0.250	**0.28**	0.133	**0.15**	0.08
REV on	Head	LTE B38	38000	2595	1RB-Mid	Cheek	0mm	\	23.64	24.00	0.242	**0.26**	0.129	**0.14**	-0.05
REV on	Head	LTE B38	37850	2580	1RB-Mid	Cheek	0mm	\	23.67	24.00	0.221	**0.24**	0.129	**0.14**	0.16
REV on	Head	LTE B38	37850	2580	1RB-Mid	Tilt	0mm	\	23.67	24.00	0.127	**0.14**	0.064	**0.07**	0.08
REV on	Head	LTE B38	37850	2580	50RB-Middle	Cheek	0mm	\	22.49	23.00	0.085	**0.10**	0.049	**0.06**	-0.02
REV on	Head	LTE B38	37850	2580	50RB-Middle	Tilt Left	0mm	\	22.49	23.00	0.097	**0.11**	0.049	**0.06**	0.1
REV on	Head	LTE B38	38150	2610	50RB-Middle	Cheek	0mm	\	22.40	23.00	0.176	**0.20**	0.094	**0.11**	0.13
REV on	Head	LTE B38	38000	2595	50RB-Middle	Cheek	0mm	\	22.38	23.00	0.173	**0.20**	0.093	**0.11**	-0.01
REV on	Head	LTE B38	37850	2580	50RB-Middle	Cheek	0mm	\	22.49	23.00	0.162	**0.18**	0.086	**0.10**	0.11
REV on	Head	LTE B38	37850	2580	50RB-Middle	Tilt	0mm	\	22.49	23.00	0.103	**0.12**	0.052	**0.06**	0
Hotspot	Body	LTE B38	37850	2580	1RB-Mid	Front	10mm	\	20.77	21.00	0.070	**0.07**	0.042	**0.04**	0.15
Hotspot	Body	LTE B38	37850	2580	1RB-Mid	Rear	10mm	F.32	20.77	21.00	0.119	**0.13**	0.066	**0.07**	-0.1
Hotspot	Body	LTE B38	37850	2580	1RB-Mid	Left	10mm	\	20.77	21.00	0.109	**0.11**	0.063	**0.07**	0.13
Hotspot	Body	LTE B38	37850	2580	1RB-Mid	Right	10mm	\	20.77	21.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B38	37850	2580	1RB-Mid	Top	10mm	\	20.77	21.00	0.066	**0.07**	0.035	**0.04**	0.06
Hotspot	Body	LTE B38	37850	2580	50RB-High	Front	10mm	\	20.52	21.00	0.068	**0.08**	0.041	**0.05**	0
Hotspot	Body	LTE B38	37850	2580	50RB-High	Rear	10mm	\	20.52	21.00	0.103	**0.12**	0.058	**0.06**	0.06
Hotspot	Body	LTE B38	37850	2580	50RB-High	Left	10mm	\	20.52	21.00	0.109	**0.12**	0.061	**0.07**	-0.09
Hotspot	Body	LTE B38	37850	2580	50RB-High	Right	10mm	\	20.52	21.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B38	37850	2580	50RB-High	Top	10mm	\	20.52	21.00	0.063	**0.07**	0.034	**0.04**	0.18
REV off	Body	LTE B38	37850	2580	1RB-Mid	Front	15mm	\	23.16	23.50	0.095	**0.10**	0.056	**0.06**	0.15
REV off	Body	LTE B38	37850	2580	1RB-Mid	Rear	15mm	F.33	23.16	23.50	0.153	**0.17**	0.086	**0.09**	-0.17
REV off	Body	LTE B38	37850	2580	50RB-Middle	Front	15mm	\	22.47	23.00	0.084	**0.09**	0.048	**0.05**	-0.19
REV off	Body	LTE B38	37850	2580	50RB-Middle	Rear	15mm	\	22.47	23.00	0.131	**0.15**	0.074	**0.08**	0.11
REV on	Head	LTE B66	132572	1770	1RB-Mid	Cheek	0mm	\	23.42	24.50	0.065	**0.08**	0.041	**0.05**	-0.15
REV on	Head	LTE B66	132572	1770	1RB-Mid	Tilt Left	0mm	\	23.42	24.50	0.027	**0.03**	0.017	**0.02**	-0.12
REV on	Head	LTE B66	132572	1770	1RB-Mid	Cheek	0mm	F.34	23.42	24.50	0.086	**0.11**	0.055	**0.07**	0.02
REV on	Head	LTE B66	132572	1770	1RB-Mid	Tilt	0mm	\	23.42	24.50	0.053	**0.07**	0.033	**0.04**	0.06
REV on	Head	LTE B66	132572	1770	50RB-Middle	Cheek	0mm	\	22.49	23.50	0.032	**0.04**	0.021	**0.03**	0.02
REV on	Head	LTE B66	132572	1770	50RB-Middle	Tilt Left	0mm	\	22.49	23.50	0.021	**0.03**	0.013	**0.02**	0.14
REV on	Head	LTE B66	132572	1770	50RB-Middle	Cheek	0mm	\	22.49	23.50	0.045	**0.06**	0.030	**0.04**	0.06
REV on	Head	LTE B66	132572	1770	50RB-Middle	Tilt	0mm	\	22.49	23.50	0.040	**0.05**	0.025	**0.03**	0.12
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Front	10mm	\	19.54	20.50	0.080	**0.10**	0.049	**0.06**	-0.18
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Rear	10mm	\	19.54	20.50	0.157	**0.20**	0.092	**0.11**	-0.08
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Left	10mm	\	19.54	20.50	0.044	**0.05**	0.026	**0.03**	0.04
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Right	10mm	\	19.54	20.50	0.064	**0.08**	0.039	**0.05**	0.05
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Bottom	10mm	F.35	19.54	20.50	0.191	**0.24**	0.107	**0.13**	0.18
Hotspot	Body	LTE B66	132072	1720	50RB-Middle	Front	10mm	\	19.43	20.50	0.077	**0.10**	0.048	**0.06**	-0.17
Hotspot	Body	LTE B66	132072	1720	50RB-Middle	Rear	10mm	\	19.43	20.50	0.152	**0.19**	0.090	**0.12**	0.12
Hotspot	Body	LTE B66	132072	1720	50RB-Middle	Left	10mm	\	19.43	20.50	0.041	**0.05**	0.026	**0.03**	0.08
Hotspot	Body	LTE B66	132072	1720	50RB-Middle	Right	10mm	\	19.43	20.50	0.064	**0.08**	0.038	**0.05**	-0.01
Hotspot	Body	LTE B66	132072	1720	50RB-Middle	Bottom	10mm	\	19.43	20.50	0.184	**0.24**	0.103	**0.13**	-0.11
REV off	Body	LTE B66	132072	1720	1RB-Mid	Front	15mm	\	22.50	23.50	0.120	**0.15**	0.074	**0.09**	0.19
REV off	Body	LTE B66	132072	1720	1RB-Mid	Rear	15mm	F.36	22.50	23.50	0.248	**0.31**	0.153	**0.19**	0.06
REV off	Body	LTE B66	132072	1720	50RB-Mid	Front	15mm	\	22.47	23.50	0.118	**0.15**	0.073	**0.09**	0.02
REV off	Body	LTE B66	132072	1720	50RB-Mid	Rear	15mm	\	22.47	23.50	0.241	**0.31**	0.148	**0.19**	0.15

14.2 SAR results for 2G/3G/4G-Second antenna

EUT State	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
REV on	Head	GSM850	251	848.8	Voice	Cheek Left	0mm	F.37	32.71	33.70	0.482	**0.61**	0.332	**0.42**	-0.09
REV on	Head	GSM850	190	836.6	Voice	Cheek Left	0mm	\	32.72	33.70	0.344	**0.43**	0.238	**0.30**	0.12
REV on	Head	GSM850	128	824.2	Voice	Cheek Left	0mm	\	32.70	33.70	0.234	**0.29**	0.163	**0.21**	0.13
REV on	Head	GSM850	190	836.6	Voice	Tilt Left	0mm	\	32.72	33.70	0.308	**0.39**	0.193	**0.24**	-0.02
REV on	Head	GSM850	190	836.6	Voice	Cheek Right	0mm	\	32.72	33.70	0.328	**0.41**	0.217	**0.27**	0.14
REV on	Head	GSM850	190	836.6	Voice	Tilt Right	0mm	\	32.72	33.70	0.309	**0.39**	0.179	**0.22**	0.08
Hotspot	Body	GSM850	190	836.6	GPRS(3TX)	Front	10mm	\	25.38	26.30	0.069	**0.09**	0.048	**0.06**	0.05
Hotspot	Body	GSM850	251	848.8	GPRS(3TX)	Rear	10mm	F.38	25.44	26.30	0.108	**0.13**	0.0723	**0.09**	-0.09
Hotspot	Body	GSM850	190	836.6	GPRS(3TX)	Rear	10mm	\	25.38	26.30	0.072	**0.09**	0.05	**0.06**	0.13
Hotspot	Body	GSM850	128	824.2	GPRS(3TX)	Rear	10mm	\	25.39	26.30	0.053	**0.07**	0.036	**0.04**	-0.09
Hotspot	Body	GSM850	190	836.6	GPRS(3TX)	Left	10mm	\	25.38	26.30	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	GSM850	190	836.6	GPRS(3TX)	Right	10mm	\	25.38	26.30	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	GSM850	190	836.6	GPRS(3TX)	Top	10mm	\	25.38	26.30	0.056	**0.07**	0.03	**0.04**	0.17
Hotspot	Body	GSM850	251	848.8	EGPRS(3TX)	Rear	10mm	\	25.29	26.30	0.069	**0.09**	0.049	**0.06**	0.05
REV off	Body	GSM850	190	836.6	GPRS(3TX)	Front	15mm	\	28.36	29.30	0.053	**0.07**	0.039	**0.05**	0.1
REV off	Body	GSM850	251	848.8	GPRS(3TX)	Rear	15mm	F.39	28.40	29.30	0.126	**0.16**	0.089	**0.11**	-0.1
REV off	Body	GSM850	190	836.6	GPRS(3TX)	Rear	15mm	\	28.36	29.30	0.090	**0.11**	0.067	**0.08**	0.05
REV off	Body	GSM850	128	824.2	GPRS(3TX)	Rear	15mm	\	28.30	29.30	0.066	**0.08**	0.048	**0.06**	-0.18
REV off	Body	GSM850	251	848.8	EGPRS(3TX)	Rear	15mm	\	28.36	29.30	0.079	**0.10**	0.058	**0.07**	-0.04
REV on	Head	GSM1900	661	1880	Voice	Cheek Left	0mm	\	25.31	25.70	0.133	**0.15**	0.065	**0.07**	0.01
REV on	Head	GSM1900	810	1909.8	Voice	Tilt Left	0mm		25.20	25.70	0.139	**0.16**	0.067	**0.08**	0.11
REV on	Head	GSM1900	661	1880	Voice	Tilt Left	0mm	F.40	25.31	25.70	0.194	**0.21**	0.094	**0.10**	0.04
REV on	Head	GSM1900	512	1850.2	Voice	Tilt Left	0mm		25.45	25.70	0.135	**0.14**	0.068	**0.07**	0.01
REV on	Head	GSM1900	661	1880	Voice	Cheek Right	0mm	\	25.31	25.70	0.127	**0.14**	0.059	**0.06**	-0.14
REV on	Head	GSM1900	661	1880	Voice	Tilt Right	0mm	\	25.31	25.70	0.190	**0.21**	0.087	**0.10**	-0.18
Hotspot	Body	GSM1900	661	1880	GPRS(3TX)	Front	10mm	\	20.25	21.00	0.062	**0.07**	0.031	**0.04**	0.01
Hotspot	Body	GSM1900	661	1880	GPRS(3TX)	Rear	10mm	\	20.25	21.00	0.120	**0.14**	0.06	**0.07**	0
Hotspot	Body	GSM1900	661	1880	GPRS(3TX)	Left	10mm	\	20.25	21.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	GSM1900	661	1880	GPRS(3TX)	Right	10mm	\	20.25	21.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	GSM1900	810	1909.8	GPRS(3TX)	Top	10mm	F.41	20.05	21.00	0.210	**0.26**	0.097	**0.12**	-0.02
Hotspot	Body	GSM1900	661	1880	GPRS(3TX)	Top	10mm	\	20.25	21.00	0.169	**0.20**	0.08	**0.10**	0.02
Hotspot	Body	GSM1900	512	1850.2	GPRS(3TX)	Top	10mm	\	20.41	21.00	0.167	**0.19**	0.081	**0.09**	0.13
Hotspot	Body	GSM1900	810	1909.8	EGPRS(3TX)	Top	10mm	\	20.24	21.00	0.184	**0.22**	0.093	**0.11**	-0.12
REV off	Body	GSM1900	661	1880	GPRS(3TX)	Front	15mm	\	23.58	24.50	0.082	**0.10**	0.044	**0.05**	0.19
REV off	Body	GSM1900	810	1909.8	GPRS(3TX)	Rear	15mm	F.42	23.51	24.50	0.193	**0.24**	0.1	**0.13**	0.03
REV off	Body	GSM1900	661	1880	GPRS(3TX)	Rear	15mm	\	23.58	24.50	0.163	**0.20**	0.085	**0.11**	0.02
REV off	Body	GSM1900	512	1850.2	GPRS(3TX)	Rear	15mm	\	23.75	24.50	0.166	**0.20**	0.084	**0.10**	-0.15
REV off	Body	GSM1900	810	1909.8	EGPRS(3TX)	Rear	15mm	\	23.49	24.50	0.174	**0.22**	0.089	**0.11**	0.04
REV on	Head	WCDMA1900	9400	1880	RMC	Cheek Left	0mm	\	16.12	17.00	0.303	**0.37**	0.143	**0.18**	-0.03
REV on	Head	WCDMA1900	9400	1880	RMC	Tilt Left	0mm	\	16.12	17.00	0.366	**0.45**	0.171	**0.21**	0.08
REV on	Head	WCDMA1900	9400	1880	RMC	Cheek Right	0mm	\	16.12	17.00	0.351	**0.43**	0.161	**0.20**	0.19
REV on	Head	WCDMA1900	9538	1907.6	RMC	Tilt Right	0mm		16.05	17.00	0.416	**0.52**	0.184	**0.23**	0.08
REV on	Head	WCDMA1900	9400	1880	RMC	Tilt Right	0mm	F.43	16.12	17.00	0.480	**0.59**	0.215	**0.26**	-0.02
REV on	Head	WCDMA1900	9262	1852.4	RMC	Tilt Right	0mm		15.94	17.00	0.433	**0.55**	0.194	**0.25**	-0.12
Hotspot	Body	WCDMA1900	9400	1880	RMC	Front	10mm	\	15.49	16.50	0.062	**0.08**	0.032	**0.04**	-0.17
Hotspot	Body	WCDMA1900	9538	1907.6	RMC	Rear	10mm	\	15.53	16.50	0.136	**0.17**	0.071	**0.09**	0.18
Hotspot	Body	WCDMA1900	9400	1880	RMC	Rear	10mm	\	15.49	16.50	0.127	**0.16**	0.066	**0.08**	-0.19
Hotspot	Body	WCDMA1900	9262	1852.4	RMC	Rear	10mm	\	15.58	16.50	0.119	**0.15**	0.061	**0.08**	0.04
Hotspot	Body	WCDMA1900	9400	1880	RMC	Left	10mm	\	15.49	16.50	0.037	**0.05**	0.019	**0.02**	-0.12
Hotspot	Body	WCDMA1900	9400	1880	RMC	Right	10mm	\	15.49	16.50	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	WCDMA1900	9538	1907.6	RMC	Top	10mm	F.44	15.53	16.50	0.188	**0.24**	0.09	**0.11**	-0.17
Hotspot	Body	WCDMA1900	9400	1880	RMC	Top	10mm	\	15.49	16.50	0.183	**0.23**	0.088	**0.11**	0.11
Hotspot	Body	WCDMA1900	9262	1852.4	RMC	Top	10mm	\	15.58	16.50	0.174	**0.22**	0.086	**0.11**	0.19
REV off	Body	WCDMA1900	9400	1880	RMC	Front	15mm	\	19.05	20.00	0.098	**0.12**	0.054	**0.07**	-0.04
REV off	Body	WCDMA1900	9538	1907.6	RMC	Rear	15mm	\	18.97	20.00	0.150	**0.19**	0.052	**0.07**	-0.04
REV off	Body	WCDMA1900	9400	1880	RMC	Rear	15mm	F.45	19.05	20.00	0.189	**0.24**	0.101	**0.13**	0.03
REV off	Body	WCDMA1900	9262	1852.4	RMC	Rear	15mm	\	18.94	20.00	0.172	**0.22**	0.092	**0.12**	0.02
REV on	Head	WCDMA1700	1412	1732.4	RMC	Cheek Left	0mm	\	17.49	18.40	0.414	**0.51**	0.237	**0.29**	-0.15
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Left	0mm	\	17.49	18.40	0.607	**0.75**	0.330	**0.41**	0.09
REV on	Head	WCDMA1700	1412	1732.4	RMC	Cheek Right	0mm	\	17.49	18.40	0.527	**0.65**	0.281	**0.35**	0.1
REV on	Head	WCDMA1700	1513	1752.6	RMC	Tilt Right	0mm	\	17.53	18.40	0.712	**0.87**	0.364	**0.44**	-0.11
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Right	0mm	F.46	17.49	18.40	0.735	**0.91**	0.373	**0.46**	0.12
REV on	Head	WCDMA1700	1312	1712.4	RMC	Tilt Right	0mm	\	17.56	18.40	0.693	**0.84**	0.352	**0.43**	-0.16
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Right	0mm	SIM2	17.49	18.40	0.647	**0.80**	0.323	**0.40**	0.06
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Right	0mm	B2	17.49	18.40	0.651	**0.80**	0.336	**0.41**	0.01
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Right	0mm	B3	17.49	18.40	0.672	**0.83**	0.343	**0.42**	-0.11
REV on	Head	WCDMA1700	1412	1732.4	RMC	Tilt Right	0mm	B4	17.49	18.40	0.649	**0.80**	0.328	**0.40**	-0.19
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Front	10mm	\	16.97	17.90	0.064	**0.08**	0.037	**0.05**	-0.04
Hotspot	Body	WCDMA1700	15.13	1752.6	RMC	Rear	10mm	\	17.05	17.90	0.096	**0.12**	0.054	**0.07**	-0.1
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Rear	10mm	\	16.97	17.90	0.086	**0.11**	0.048	**0.06**	0.02
Hotspot	Body	WCDMA1700	1312	1712.4	RMC	Rear	10mm	\	17.02	17.90	0.077	**0.09**	0.047	**0.06**	0.13
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Left	10mm	\	16.97	17.90	0.032	**0.04**	0.019	**0.02**	-0.05
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Right	10mm	\	16.97	17.90	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	WCDMA1700	15.13	1752.6	RMC	Top	10mm	\	17.05	17.90	0.146	**0.18**	0.074	**0.09**	0.18
Hotspot	Body	WCDMA1700	1412	1732.4	RMC	Top	10mm	F.47	16.97	17.90	0.180	**0.22**	0.093	**0.12**	-0.08
Hotspot	Body	WCDMA1700	1312	1712.4	RMC	Top	10mm	\	17.02	17.90	0.121	**0.15**	0.063	**0.08**	0.09
REV off	Body	WCDMA1700	1412	1732.4	RMC	Front	15mm	\	20.97	21.90	0.151	**0.19**	0.09	**0.11**	-0.06
REV off	Body	WCDMA1700	15.13	1752.6	RMC	Rear	15mm	F.48	21.04	21.90	0.211	**0.26**	0.12	**0.15**	0.07
REV off	Body	WCDMA1700	1412	1732.4	RMC	Rear	15mm	\	20.97	21.90	0.190	**0.24**	0.113	**0.14**	0.14
REV off	Body	WCDMA1700	1312	1712.4	RMC	Rear	15mm	\	21.06	21.90	0.201	**0.24**	0.126	**0.15**	0.1

REV on	Head	WCDMA850	4233	846.6	RMC	Cheek Left	0mm	F.49	22.91	24.00	0.437	**0.56**	0.294	**0.38**	-0.05
REV on	Head	WCDMA850	4183	836.6	RMC	Cheek Left	0mm	\	23.02	24.00	0.369	**0.46**	0.249	**0.31**	-0.06
REV on	Head	WCDMA850	4132	826.4	RMC	Cheek Left	0mm	\	22.97	24.00	0.301	**0.38**	0.203	**0.26**	-0.16
REV on	Head	WCDMA850	4183	836.6	RMC	Tilt Left	0mm	\	23.02	24.00	0.322	**0.40**	0.203	**0.25**	0.06
REV on	Head	WCDMA850	4183	836.6	RMC	Cheek Right	0mm	\	23.02	24.00	0.322	**0.40**	0.209	**0.26**	-0.05
REV on	Head	WCDMA850	4183	836.6	RMC	Tilt Right	0mm	\	23.02	24.00	0.295	**0.37**	0.167	**0.21**	-0.17
Hotspot	Body	WCDMA850	4183	836.6	RMC	Front	10mm	\	22.47	23.50	0.107	**0.14**	0.069	**0.09**	-0.1
Hotspot	Body	WCDMA850	4233	846.6	RMC	Rear	10mm	F.50	22.43	23.50	0.192	**0.25**	0.124	**0.16**	-0.19
Hotspot	Body	WCDMA850	4183	836.6	RMC	Rear	10mm	\	22.47	23.50	0.166	**0.21**	0.107	**0.14**	-0.11
Hotspot	Body	WCDMA850	4132	826.4	RMC	Rear	10mm	\	22.34	23.50	0.138	**0.18**	0.091	**0.12**	-0.15
Hotspot	Body	WCDMA850	4183	836.6	RMC	Left	10mm	\	22.47	23.50	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	WCDMA850	4183	836.6	RMC	Right	10mm	\	22.47	23.50	0.066	**0.08**	0.044	**0.06**	-0.15
Hotspot	Body	WCDMA850	4183	836.6	RMC	Top	10mm	\	22.47	23.50	0.120	**0.15**	0.065	**0.08**	-0.01
REV off	Body	WCDMA850	4183	836.6	RMC	Front	15mm	\	23.97	25.00	0.068	**0.09**	0.042	**0.05**	0.04
REV off	Body	WCDMA850	4233	846.6	RMC	Rear	15mm	F.51	23.92	25.00	0.121	**0.16**	0.083	**0.11**	0.03
REV off	Body	WCDMA850	4183	836.6	RMC	Rear	15mm	\	23.97	25.00	0.109	**0.14**	0.079	**0.10**	-0.08
REV off	Body	WCDMA850	4132	826.4	RMC	Rear	15mm	\	23.95	25.00	0.096	**0.12**	0.072	**0.09**	0.07
REV on	Head	LTE B2	18700	1860	1RB-Mid	Cheek Left	0mm	\	15.89	17.50	0.218	**0.32**	0.103	**0.15**	-0.1
REV on	Head	LTE B2	18700	1860	1RB-Mid	Tilt Left	0mm	\	15.89	17.50	0.260	**0.38**	0.123	**0.18**	0.11
REV on	Head	LTE B2	18700	1860	1RB-Mid	Cheek Right	0mm	\	15.89	17.50	0.302	**0.44**	0.137	**0.20**	-0.03
REV on	Head	LTE B2	18700	1860	1RB-Mid	Tilt Right	0mm	F.52	15.89	17.50	0.490	**0.71**	0.214	**0.31**	-0.16
REV on	Head	LTE B2	19100	1900	50RB-Low	Cheek Left	0mm	\	16.02	17.50	0.150	**0.21**	0.072	**0.10**	-0.14
REV on	Head	LTE B2	19100	1900	50RB-Low	Tilt Left	0mm	\	16.02	17.50	0.245	**0.34**	0.116	**0.16**	-0.17
REV on	Head	LTE B2	19100	1900	50RB-Low	Cheek Right	0mm	\	16.02	17.50	0.310	**0.44**	0.137	**0.19**	-0.09
REV on	Head	LTE B2	19100	1900	50RB-Low	Tilt Right	0mm	\	16.02	17.50	0.471	**0.66**	0.205	**0.29**	0.04
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Front	10mm	\	16.08	17.00	0.085	**0.11**	0.045	**0.06**	-0.09
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Rear	10mm	\	16.08	17.00	0.169	**0.21**	0.089	**0.11**	-0.12
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Left	10mm	\	16.08	17.00	0.052	**0.06**	0.027	**0.03**	0.1
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Right	10mm	\	16.08	17.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B2	18900	1880	1RB-Mid	Top	10mm	F.53	16.08	17.00	0.227	**0.28**	0.11	**0.14**	0.15
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Front	10mm	\	16.15	17.00	0.088	**0.11**	0.047	**0.06**	0.08
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Rear	10mm	\	16.15	17.00	0.160	**0.19**	0.082	**0.10**	-0.17
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Left	10mm	\	16.15	17.00	0.044	**0.05**	0.024	**0.03**	-0.05
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Right	10mm	\	16.15	17.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B2	19100	1900	50RB-Low	Top	10mm	\	16.15	17.00	0.219	**0.27**	0.106	**0.13**	-0.15
REV off	Body	LTE B2	18900	1880	1RB-Mid	Front	15mm	\	19.58	20.50	0.096	**0.12**	0.053	**0.07**	-0.08
REV off	Body	LTE B2	18900	1880	1RB-Mid	Rear	15mm	F.54	19.58	20.50	0.181	**0.22**	0.097	**0.12**	-0.14
REV off	Body	LTE B2	19100	1900	50RB-Low	Front	15mm	\	19.66	20.50	0.087	**0.11**	0.048	**0.06**	0.02
REV off	Body	LTE B2	19100	1900	50RB-Low	Rear	15mm	\	19.66	20.50	0.179	**0.22**	0.096	**0.12**	-0.13
REV on	Head	LTE B4	20050	1720	1RB-Mid	Cheek Left	0mm	\	17.91	19.50	0.259	**0.37**	0.139	**0.20**	0.1
REV on	Head	LTE B4	20050	1720	1RB-Mid	Tilt Left	0mm	\	17.91	19.50	0.488	**0.70**	0.258	**0.37**	-0.04
REV on	Head	LTE B4	20050	1720	1RB-Mid	Cheek Right	0mm	\	17.91	19.50	0.369	**0.53**	0.181	**0.26**	-0.13
REV on	Head	LTE B4	20300	1745	1RB-Mid	Tilt Right	0mm	\	17.81	19.50	0.504	**0.74**	0.233	**0.34**	-0.06
REV on	Head	LTE B4	20175	1732.5	1RB-Mid	Tilt Right	0mm	\	17.83	19.50	0.532	**0.78**	0.249	**0.37**	-0.16
REV on	Head	LTE B4	20050	1720	1RB-Mid	Tilt Right	0mm	F.55	17.91	19.50	0.593	**0.86**	0.283	**0.41**	0.05
REV on	Head	LTE B4	20300	1745	50RB-Low	Cheek Left	0mm	\	17.85	19.50	0.321	**0.47**	0.171	**0.25**	0.19
REV on	Head	LTE B4	20300	1745	50RB-Low	Tilt Left	0mm	\	17.85	19.50	0.484	**0.71**	0.253	**0.37**	-0.14
REV on	Head	LTE B4	20300	1745	50RB-Low	Cheek Right	0mm	\	17.85	19.50	0.414	**0.61**	0.210	**0.31**	-0.01
REV on	Head	LTE B4	20300	1745	50RB-Low	Tilt Right	0mm	\	17.85	19.50	0.580	**0.85**	0.275	**0.40**	0.12
REV on	Head	LTE B4	20050	1720	100RB	Tilt Right	0mm	\	17.84	19.50	0.498	**0.73**	0.216	**0.32**	-0.08
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Front	10mm	\	18.00	19.00	0.132	**0.17**	0.077	**0.10**	0.15
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Rear	10mm	\	18.00	19.00	0.168	**0.21**	0.099	**0.12**	0.08
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Left	10mm	\	18.00	19.00	0.057	**0.07**	0.032	**0.04**	0.09
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Right	10mm	\	18.00	19.00	0.085	**0.11**	0.05	**0.06**	-0.09
Hotspot	Body	LTE B4	20050	1720	1RB-Mid	Top	10mm	\	18.00	19.00	0.271	**0.34**	0.144	**0.18**	0.02
Hotspot	Body	LTE B4	20050	1720	50RB-Middle	Front	10mm	\	17.97	19.00	0.098	**0.12**	0.062	**0.08**	0.09
Hotspot	Body	LTE B4	20050	1720	50RB-Middle	Rear	10mm	\	17.97	19.00	0.151	**0.19**	0.088	**0.11**	0.08
Hotspot	Body	LTE B4	20050	1720	50RB-Middle	Left	10mm	\	17.97	19.00	0.061	**0.08**	0.033	**0.04**	0.02
Hotspot	Body	LTE B4	20050	1720	50RB-Middle	Right	10mm	\	17.97	19.00	0.073	**0.09**	0.043	**0.05**	0.19
Hotspot	Body	LTE B4	20050	1720	50RB-Middle	Top	10mm	F.56	17.97	19.00	0.282	**0.36**	0.149	**0.19**	0.05
REV off	Body	LTE B4	20050	1720	1RB-Mid	Front	15mm	\	21.52	22.50	0.127	**0.16**	0.065	**0.08**	0.16
REV off	Body	LTE B4	20050	1720	1RB-Mid	Rear	15mm	F.57	21.52	22.50	0.168	**0.21**	0.096	**0.12**	0.04
REV off	Body	LTE B4	20050	1720	50RB-Mid	Front	15mm	\	21.43	22.50	0.115	**0.15**	0.061	**0.08**	-0.17
REV off	Body	LTE B4	20050	1720	50RB-Mid	Rear	15mm	\	21.43	22.50	0.150	**0.19**	0.082	**0.10**	-0.02
REV on	Head	LTE B7	21350	2560	1RB-Mid	Cheek Left	0mm	\	21.36	21.90	0.280	**0.32**	0.144	**0.16**	0.15
REV on	Head	LTE B7	21350	2560	1RB-Mid	Tilt Left	0mm	\	21.36	21.90	0.346	**0.39**	0.167	**0.19**	0.04
REV on	Head	LTE B7	21350	2560	1RB-Mid	Cheek Right	0mm	F.58	21.36	21.90	0.752	**0.85**	0.354	**0.40**	0.01
REV on	Head	LTE B7	21100	2535	1RB-Mid	Cheek Right	0mm	\	21.25	21.90	0.708	**0.82**	0.311	**0.36**	-0.06
REV on	Head	LTE B7	20850	2510	1RB-Mid	Cheek Right	0mm	\	21.31	21.90	0.694	**0.79**	0.289	**0.33**	-0.12
REV on	Head	LTE B7	21350	2560	1RB-Mid	Tilt Right	0mm	\	21.36	21.90	0.751	**0.85**	0.332	**0.38**	0.18
REV on	Head	LTE B7	21350	2560	50RB-High	Cheek Left	0mm	\	21.37	21.90	0.277	**0.31**	0.140	**0.16**	-0.11
REV on	Head	LTE B7	21350	2560	50RB-High	Tilt Left	0mm	\	21.37	21.90	0.332	**0.38**	0.159	**0.18**	0.05
REV on	Head	LTE B7	21350	2560	50RB-High	Cheek Right	0mm	\	21.37	21.90	0.724	**0.82**	0.340	**0.38**	0.07
REV on	Head	LTE B7	21350	2560	50RB-High	Tilt Right	0mm	\	21.37	21.90	0.729	**0.82**	0.325	**0.37**	-0.18
REV on	Head	LTE B7	21350	2560	100RB	Cheek Right	0mm	\	21.36	21.90	0.711	**0.81**	0.317	**0.36**	-0.14
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Front	10mm	\	17.70	18.40	0.072	**0.08**	0.043	**0.05**	-0.05
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Rear	10mm	F.59	17.70	18.40	0.166	**0.20**	0.091	**0.11**	-0.17
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Left	10mm	\	17.70	18.40	0.159	**0.19**	0.086	**0.10**	0.03
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Right	10mm	\	17.70	18.40	0.039	**0.05**	0.013	**0.02**	0.04
Hotspot	Body	LTE B7	20850	2510	1RB-Mid	Top	10mm	\	17.70	18.40	0.105	**0.12**	0.052	**0.06**	-0.08
Hotspot	Body	LTE B7	20850	2510	50RB-High	Front	10mm	\	17.63	18.40	0.071	**0.08**	0.042	**0.05**	0.01
Hotspot	Body	LTE B7	20850	2510	50RB-High	Rear	10mm	\	17.63	18.40	0.155	**0.19**	0.085	**0.10**	0.11
Hotspot	Body	LTE B7	20850	2510	50RB-High	Left	10mm	\	17.63	18.40	0.160	**0.19**	0.086	**0.10**	0.13
Hotspot	Body	LTE B7	20850	2510	50RB-High	Right	10mm	\	17.63	18.40	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B7	20850	2510	50RB-High	Top	10mm	\	17.63	18.40	0.100	**0.12**	0.052	**0.06**	-0.18
REV off	Body	LTE B7	21350	2560	1RB-Mid	Front	15mm	\	20.22	20.90	0.096	**0.11**	0.053	**0.06**	0.19
REV off	Body	LTE B7	21350	2560	1RB-Mid	Rear	15mm	F.60	20.22	20.90	0.178	**0.21**	0.095	**0.11**	0.11
REV off	Body	LTE B7	21350	2560	50RB-High	Front	15mm	\	20.30	20.90	0.094	**0.11**	0.052	**0.06**	-0.03
REV off	Body	LTE B7	21350	2560	50RB-High	Rear	15mm	\	20.30	20.90	0.170	**0.20**	0.092	**0.11**	-0.15

REV on	Head	LTE B13	23230	782	1RB-Mid	Cheek Left	0mm	\	22.78	23.80	0.244	**0.31**	0.131	**0.17**	0.16
REV on	Head	LTE B13	23230	782	1RB-Mid	Tilt Left	0mm	\	22.78	23.80	0.242	**0.31**	0.135	**0.17**	-0.02
REV on	Head	LTE B13	23230	782	1RB-Mid	Cheek Right	0mm	\	22.78	23.80	0.257	**0.33**	0.140	**0.18**	-0.16
REV on	Head	LTE B13	23230	782	1RB-Mid	Tilt Right	0mm	\	22.78	23.80	0.237	**0.30**	0.117	**0.15**	-0.15
REV on	Head	LTE B13	23230	782	25RB-High	Cheek Left	0mm	\	22.81	23.80	0.232	**0.29**	0.127	**0.16**	-0.06
REV on	Head	LTE B13	23230	782	25RB-High	Tilt Left	0mm	\	22.81	23.80	0.204	**0.26**	0.101	**0.13**	-0.1
REV on	Head	LTE B13	23230	782	25RB-High	Cheek Right	0mm	F.61	22.81	23.80	0.267	**0.34**	0.145	**0.18**	-0.01
REV on	Head	LTE B13	23230	782	25RB-High	Tilt Right	0mm	\	22.81	23.80	0.230	**0.29**	0.113	**0.14**	0.12
Hotspot	Body	LTE B13	23230	782	1RB-Low	Front	10mm	\	22.21	23.30	0.068	**0.09**	0.045	**0.06**	-0.06
Hotspot	Body	LTE B13	23230	782	1RB-Low	Rear	10mm	F.62	22.21	23.30	0.109	**0.14**	0.07	**0.09**	-0.01
Hotspot	Body	LTE B13	23230	782	1RB-Low	Left	10mm	\	22.21	23.30	0.041	**0.05**	0.026	**0.03**	0
Hotspot	Body	LTE B13	23230	782	1RB-Low	Right	10mm	\	22.21	23.30	0.055	**0.07**	0.036	**0.05**	-0.15
Hotspot	Body	LTE B13	23230	782	1RB-Low	Top	10mm	\	22.21	23.30	0.055	**0.07**	0.031	**0.04**	-0.16
Hotspot	Body	LTE B13	23230	782	25RB-High	Front	10mm	\	22.24	23.30	0.065	**0.08**	0.042	**0.05**	0.12
Hotspot	Body	LTE B13	23230	782	25RB-High	Rear	10mm	\	22.24	23.30	0.103	**0.13**	0.067	**0.09**	0.04
Hotspot	Body	LTE B13	23230	782	25RB-High	Left	10mm	\	22.24	23.30	0.040	**0.05**	0.026	**0.03**	-0.02
Hotspot	Body	LTE B13	23230	782	25RB-High	Right	10mm	\	22.24	23.30	0.055	**0.07**	0.035	**0.04**	-0.19
Hotspot	Body	LTE B13	23230	782	25RB-High	Top	10mm	\	22.24	23.30	0.053	**0.07**	0.03	**0.04**	-0.14
REV off	Body	LTE B13	23230	782	1RB-Mid	Front	15mm	\	23.84	24.80	0.145	**0.18**	0.105	**0.13**	0.14
REV off	Body	LTE B13	23230	782	1RB-Mid	Rear	15mm	F.63	23.84	24.80	0.207	**0.26**	0.151	**0.19**	-0.06
REV off	Body	LTE B13	23230	782	25RB-Mid	Front	15mm	\	22.83	23.80	0.112	**0.14**	0.081	**0.10**	-0.05
REV off	Body	LTE B13	23230	782	25RB-Mid	Rear	15mm	\	22.83	23.80	0.159	**0.16**	0.116	**0.12**	0.04
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Cheek Left	0mm	\	22.59	24.00	0.235	**0.33**	0.157	**0.22**	0.11
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Tilt Left	0mm	\	22.59	24.00	0.182	**0.25**	0.111	**0.15**	0.16
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Cheek Right	0mm	\	22.59	24.00	0.229	**0.32**	0.145	**0.20**	-0.1
REV on	Head	LTE B26	26775	822.5	1RB-Mid	Tilt Right	0mm	\	22.59	24.00	0.186	**0.26**	0.104	**0.14**	-0.06
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Cheek Left	0mm	F.64	22.66	24.00	0.259	**0.35**	0.173	**0.24**	-0.04
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Tilt Left	0mm	\	22.66	24.00	0.183	**0.25**	0.112	**0.15**	-0.05
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Cheek Right	0mm	\	22.66	24.00	0.192	**0.26**	0.121	**0.16**	-0.09
REV on	Head	LTE B26	26775	822.5	36RB-Middle	Tilt Right	0mm	\	22.66	24.00	0.159	**0.22**	0.087	**0.12**	0.18
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Front	10mm	\	22.20	23.50	0.069	**0.09**	0.047	**0.06**	0.07
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Rear	10mm	\	22.20	23.50	0.107	**0.14**	0.075	**0.10**	-0.06
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Left	10mm	\	22.20	23.50	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Right	10mm	\	22.20	23.50	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B26	26775	822.5	1RB-Mid	Top	10mm	\	22.20	23.50	0.067	**0.09**	0.039	**0.05**	-0.03
Hotspot	Body	LTE B26	26956	841.5	36RB-Low	Front	10mm	\	22.22	23.50	0.070	**0.09**	0.047	**0.06**	0.04
Hotspot	Body	LTE B26	26956	841.5	36RB-Low	Rear	10mm	F.65	22.22	23.50	0.117	**0.16**	0.079	**0.11**	0.05
Hotspot	Body	LTE B26	26956	841.5	36RB-Low	Left	10mm	\	22.22	23.50	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B26	26956	841.5	36RB-Low	Right	10mm	\	22.22	23.50	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B26	26956	841.5	36RB-Low	Top	10mm	\	22.22	23.50	0.065	**0.09**	0.041	**0.06**	0.16
REV off	Body	LTE B26	26775	822.5	1RB-Mid	Front	15mm	\	23.59	25.00	0.054	**0.07**	0.004	**0.01**	-0.08
REV off	Body	LTE B26	26775	822.5	1RB-Mid	Rear	15mm	F.66	23.59	25.00	0.081	**0.11**	0.057	**0.08**	0.09
REV off	Body	LTE B26	26956	841.5	36RB-Low	Front	15mm	\	22.68	24.00	<0.01	**<0.01**	<0.01	**<0.01**	\
REV off	Body	LTE B26	26956	841.5	36RB-Low	Rear	15mm	\	22.68	24.00	0.065	**0.09**	0.005	**0.01**	0.18
REV on	Head	LTE B38	37850	2580	1RB-Mid	Cheek Left	0mm	\	23.77	24.00	0.194	**0.20**	0.111	**0.12**	0.08
REV on	Head	LTE B38	37850	2580	1RB-Mid	Tilt Left	0mm	\	23.77	24.00	0.194	**0.20**	0.099	**0.10**	-0.1
REV on	Head	LTE B38	38150	2610	1RB-Mid	Cheek Right	0mm	\	23.69	24.00	0.544	**0.58**	0.290	**0.31**	-0.02
REV on	Head	LTE B38	38000	2595	1RB-Mid	Cheek Right	0mm	F.67	23.71	24.00	0.561	**0.60**	0.301	**0.32**	-0.05
REV on	Head	LTE B38	37850	2580	1RB-Mid	Cheek Right	0mm	\	23.77	24.00	0.530	**0.56**	0.283	**0.30**	0.13
REV on	Head	LTE B38	37850	2580	1RB-Mid	Tilt Right	0mm	\	23.77	24.00	0.353	**0.37**	0.186	**0.20**	0.12
REV on	Head	LTE B38	37850	2580	50RB-Middle	Cheek Left	0mm	\	22.63	23.00	0.155	**0.17**	0.087	**0.09**	-0.18
REV on	Head	LTE B38	37850	2580	50RB-Middle	Tilt Left	0mm	\	22.63	23.00	0.150	**0.16**	0.076	**0.08**	-0.07
REV on	Head	LTE B38	38150	2610	50RB-Middle	Cheek Right	0mm	\	22.54	23.00	0.412	**0.46**	0.218	**0.24**	-0.18
REV on	Head	LTE B38	38000	2595	50RB-Middle	Cheek Right	0mm	\	22.56	23.00	0.419	**0.46**	0.223	**0.25**	0.05
REV on	Head	LTE B38	37850	2580	50RB-Middle	Cheek Right	0mm	\	22.63	23.00	0.436	**0.47**	0.234	**0.25**	0.09
REV on	Head	LTE B38	37850	2580	50RB-Middle	Tilt Right	0mm	\	22.63	23.00	0.291	**0.32**	0.151	**0.16**	0.14
Hotspot	Body	LTE B38	38000	2595	1RB-Mid	Front	10mm	\	19.76	20.00	0.042	**0.04**	0.028	**0.03**	0.03
Hotspot	Body	LTE B38	38000	2595	1RB-Mid	Rear	10mm	F.68	19.76	20.00	0.161	**0.17**	0.09	**0.10**	-0.17
Hotspot	Body	LTE B38	38000	2595	1RB-Mid	Left	10mm	\	19.76	20.00	0.158	**0.17**	0.089	**0.09**	0.07
Hotspot	Body	LTE B38	38000	2595	1RB-Mid	Right	10mm	\	19.76	20.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B38	38000	2595	1RB-Mid	Top	10mm	\	19.76	20.00	0.047	**0.05**	0.027	**0.03**	0.11
Hotspot	Body	LTE B38	38000	2595	50RB-Middle	Front	10mm	\	19.53	20.00	0.039	**0.04**	0.026	**0.03**	0.11
Hotspot	Body	LTE B38	38000	2595	50RB-Middle	Rear	10mm	\	19.53	20.00	0.152	**0.17**	0.082	**0.09**	0.16
Hotspot	Body	LTE B38	38000	2595	50RB-Middle	Left	10mm	\	19.53	20.00	0.136	**0.15**	0.075	**0.08**	-0.13
Hotspot	Body	LTE B38	38000	2595	50RB-Middle	Right	10mm	\	19.53	20.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B38	38000	2595	50RB-Middle	Top	10mm	\	19.53	20.00	0.043	**0.05**	0.025	**0.03**	0.07
REV off	Body	LTE B38	37850	2580	1RB-Mid	Front	15mm	\	22.31	22.50	0.052	**0.05**	0.032	**0.03**	-0.02
REV off	Body	LTE B38	37850	2580	1RB-Mid	Rear	15mm	F.69	22.31	22.50	0.166	**0.17**	0.091	**0.10**	-0.09
REV off	Body	LTE B38	38000	2595	50RB-Middle	Front	15mm	\	22.13	22.50	0.048	**0.05**	0.03	**0.03**	0.06
REV off	Body	LTE B38	38000	2595	50RB-Middle	Rear	15mm	\	22.13	22.50	0.150	**0.16**	0.08	**0.09**	-0.09
REV on	Head	LTE B66	132072	1720	1RB-Mid	Cheek Left	0mm	\	17.90	19.00	0.307	**0.40**	0.143	**0.18**	0.04
REV on	Head	LTE B66	132072	1720	1RB-Mid	Tilt Left	0mm	\	17.90	19.00	0.441	**0.57**	0.207	**0.27**	0.03
REV on	Head	LTE B66	132072	1720	1RB-Mid	Cheek Right	0mm	\	17.90	19.00	0.428	**0.55**	0.199	**0.26**	-0.16
REV on	Head	LTE B66	132072	1720	1RB-Mid	Tilt Right	0mm	F.70	17.90	19.00	0.619	**0.797**	0.279	**0.36**	0.09
REV on	Head	LTE B66	132572	1770	50RB-Low	Cheek Left	0mm	\	17.89	19.00	0.287	**0.37**	0.137	**0.18**	0
REV on	Head	LTE B66	132572	1770	50RB-Low	Tilt Left	0mm	\	17.89	19.00	0.433	**0.56**	0.202	**0.26**	-0.03
REV on	Head	LTE B66	132572	1770	50RB-Low	Cheek Right	0mm	\	17.89	19.00	0.419	**0.54**	0.196	**0.25**	0.14
REV on	Head	LTE B66	132572	1770	50RB-Low	Tilt Right	0mm	\	17.89	19.00	0.607	**0.78**	0.273	**0.35**	-0.06
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Front	10mm	\	17.98	19.00	0.134	**0.17**	0.077	**0.10**	0.05
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Rear	10mm	\	17.98	19.00	0.203	**0.26**	0.112	**0.14**	-0.05
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Left	10mm	\	17.98	19.00	0.072	**0.09**	0.04	**0.05**	0
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Right	10mm	\	17.98	19.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B66	132072	1720	1RB-Mid	Top	10mm	F.71	17.98	19.00	0.314	**0.40**	0.162	**0.20**	0.03
Hotspot	Body	LTE B66	132072	1720	50RB-Low	Front	10mm	\	17.89	19.00	0.136	**0.18**	0.077	**0.10**	0.05
Hotspot	Body	LTE B66	132072	1720	50RB-Low	Rear	10mm	\	17.89	19.00	0.242	**0.31**	0.142	**0.18**	-0.07
Hotspot	Body	LTE B66	132072	1720	50RB-Low	Left	10mm	\	17.89	19.00	0.070	**0.09**	0.038	**0.05**	0.17
Hotspot	Body	LTE B66	132072	1720	50RB-Low	Right	10mm	\	17.89	19.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	LTE B66	132072	1720	50RB-Low	Top	10mm	\	17.89	19.00	0.307	**0.40**	0.15	**0.19**	-0.19
REV off	Body	LTE B66	132072	1720	1RB-Mid	Front	15mm	\	21.06	22.00	0.139	**0.17**	0.079	**0.10**	-0.11
REV off	Body	LTE B66	132072	1720	1RB-Mid	Rear	15mm	F.72	21.06	22.00	0.192	**0.24**	0.106	**0.13**	0.04
REV off	Body	LTE B66	132322	1745	50RB-Low	Front	15mm	\	21.00	22.00	0.135	**0.17**	0.076	**0.10**	0.01
REV off	Body	LTE B66	132322	1745	50RB-Low	Rear	15mm	\	21.00	22.00	0.187	**0.24**	0.103	**0.13**	-0.04

14.3 SAR results for WLAN and BT

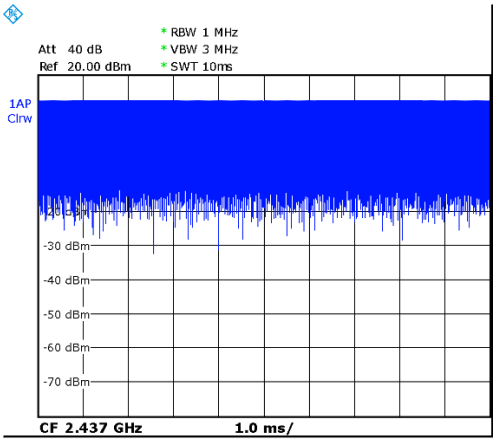
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Duty factor plot

CH6



WLAN 2.4G

EUT State	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
REV on	Head	WIFI2.4G	6	2437	11B-2M	Cheek Left	0mm	F.73	13.08	14.00	0.183	**0.23**	0.087	**0.11**	0.17
REV on	Head	WIFI2.4G	6	2437	11B-2M	Tilt Left	0mm	\	13.08	14.00	0.079	**0.10**	0.040	**0.05**	-0.14
REV on	Head	WIFI2.4G	6	2437	11B-2M	Cheek Right	0mm	\	13.08	14.00	0.047	**0.06**	0.026	**0.03**	0.17
REV on	Head	WIFI2.4G	6	2437	11B-2M	Tilt Right	0mm	\	13.08	14.00	0.038	**0.05**	0.020	**0.02**	-0.04
Hotspot	Body	WIFI2.4G	1	2412	11B-5.5M	Front	10mm	\	16.01	17.00	0.061	**0.08**	0.032	**0.04**	0.06
Hotspot	Body	WIFI2.4G	1	2412	11B-5.5M	Rear	10mm	F.74	16.01	17.00	0.131	**0.16**	0.067	**0.08**	0.12
Hotspot	Body	WIFI2.4G	1	2412	11B-5.5M	Left	10mm	\	16.01	17.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	WIFI2.4G	1	2412	11B-5.5M	Right	10mm	\	16.01	17.00	0.072	**0.09**	0.037	**0.05**	0.05
Hotspot	Body	WIFI2.4G	1	2412	11B-5.5M	Top	10mm	\	16.01	17.00	0.020	**0.03**	0.006	**0.01**	-0.16
REV off	Body	WIFI2.4G	6	2437	11B-1M	Front	15mm	\	18.07	19.00	0.066	**0.08**	0.035	**0.04**	0.1
REV off	Body	WIFI2.4G	6	2437	11B-1M	Rear	15mm	F.75	18.07	19.00	0.130	**0.16**	0.068	**0.08**	0.17

BT

EUT State	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
REV on	Head	BT	0	2402		Cheek Left	0mm	F.76	11.32	12.00	0.081	**0.09**	0.039	**0.05**	-0.15
REV on	Head	BT	0	2402		Tilt Left	0mm	\	11.32	12.00	<0.01	**<0.01**	<0.01	**<0.01**	\
REV on	Head	BT	0	2402		Cheek Right	0mm	\	11.32	12.00	0.052	**0.06**	0.023	**0.03**	-0.11
REV on	Head	BT	0	2402		Tilt Right	0mm	\	11.32	12.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	BT	0	2402		Front	10mm	\	11.32	12.00	0.022	**0.03**	0.012	**0.01**	0.07
Hotspot	Body	BT	0	2402		Rear	10mm	F.77	11.32	12.00	0.046	**0.05**	0.023	**0.03**	0.13
Hotspot	Body	BT	0	2402		Left	10mm	\	11.32	12.00	<0.01	**<0.01**	<0.01	**<0.01**	\
Hotspot	Body	BT	0	2402		Right	10mm	\	11.32	12.00	0.025	**0.03**	0.016	**0.02**	-0.12
Hotspot	Body	BT	0	2402		Top	10mm	\	11.32	12.00	<0.01	**<0.01**	<0.01	**<0.01**	\

Note: The 15mm sar results refer to 10mm results, which is more conservative.

14.4 SAR results for 10-g extremity SAR

According to the KDB648474 D04, 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 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg

For this device, SAR is not required for 10-g extremity SAR because the scaled SAR is ⩽ 1.2 W/kg.

15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.
The following procedures are applied to determine if repeated measurements are required.
1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps2) through 4) do not apply.
2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45W/kg (~ 10% from the 1-g SAR limit).
4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

16 Measurement Uncertainty

16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

Combined standard uncertainty	$u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$					19.1	18.9	

16.2 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	√3	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.4	R	√3	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	√3	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	√3	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	√3	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	√3	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43

21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.4	10.3	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.8	20.6	

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 4, 2022	One year
02	Power meter	NRP110T	101139	January 13, 2022	One year
03	Power sensor	NRP110T	101159		
04	Signal Generator	E4438C	MY49071430	January 13, 2022	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	159890	January 24, 2022	One year
07	E-field Probe	SPEAG EX3DV4	7517	January 19, 2022	One year
08	DAE	SPEAG DAE4	1525	September 15, 2022	One year
09	Dipole Validation Kit	SPEAG D750V3	1017	July 20, 2022	One year
10	Dipole Validation Kit	SPEAG D900V2	1d051	July 26, 2022	One year
11	Dipole Validation Kit	SPEAG D1800V2	2d145	July 18, 2022	One year
12	Dipole Validation Kit	SPEAG D1900V2	5d101	July 26, 2022	One year
13	Dipole Validation Kit	SPEAG D2450V2	853	July 20, 2022	One year
14	Dipole Validation Kit	SPEAG D2600V2	1012	July 20, 2022	One year

END OF REPORT BODY

Appendixes

Refer to separated files for the following appendixes

ANNEX A Graph Results

ANNEX B System Verification Results

ANNEX C SAR Measurement Setup

ANNEX D Position of the wireless device in relation to the phantom

ANNEX E Equivalent Media Recipes

ANNEX F System Validation

ANNEX G Probe Calibration Certificate

ANNEX H Dipole Calibration Certificate

ANNEX I Accreditation Certificate