FCC SAR Test Report

APPLICANT : Aava Mobile Oy

EQUIPMENT : Cellular Modem Module

: Aava **BRAND NAME**

MODEL NAME : EM7355

FCC ID : 2ABVH-EM7355

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

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Approved by: Jones Tsai / Manager



Report No.: FA6N2110

SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-327-3456 / FAX: 886-3-328-4978

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA6N2110	Rev. 01	Initial issue of report	Jan. 13, 2017

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Aava Mobile Oy, Cellular Modem Module, EM7355, are as follows.

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Equipment Class	Frequency Band	Highest SAR Summary Body 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)		
	GSM850	0.80			
	GSM1900	0.59			
	WCDMA II	0.70			
	WCDMA IV	0.86			
	WCDMA V	0.79			
	CDMA BC0	0.63			
Licensed	CDMA BC1	0.84	4 55		
Licensed	CDMA BC10	0.72	1.55		
	LTE Band 2	0.55			
	LTE Band 4	0.78			
	LTE Band 5	0.53			
	LTE Band 13	0.54			
	LTE Band 17	0.45			
	LTE Band 25	0.76			
Date of	Testing:	2016/11/23	~ 2016/11/24		

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

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2. Administration Data

Testing Laboratory								
Test Site SPORTON INTERNATIONAL INC.								
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978							

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Applicant					
Company Name	Aava Mobile Oy				
Address	Nahkatehtaankatu 2, 90130 Oulu Finland				

Manufacturer					
Company Name	Aava Mobile Oy				
Address	Nahkatehtaankatu 2, 90130 Oulu Finland				

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05

4. Equipment Under Test (EUT) Information

4.1 General Information

	Product Feature & Specification
Equipment Name	Cellular Modem Module
Brand Name	Aava
Model Name	EM7355
FCC ID	2ABVH-EM7355
IMEI Code	352233070036265
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz
Mode	· GPRS/EGPRS · RMC 12.2Kbps · HSDPA · HSUPA · DC-HSDPA · CDMA2000 : 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A) · LTE: QPSK, 16QAM
EUT Stage	Identical Prototype
Remark:	

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Verified the WWAN worst case found in the original report ,Report number: UL-SAR-RP10710967JD01A V1.0 (FCC ID: 2ABVH-EM7355),For this report, the WLAN/BT SAR testing results can refer to original report and be used to perform transmission simultaneous analysis.

	Host Information							
Equipment Name	INARI Tablet Computer							
FCC ID	2ABVH-INARI82							
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz							
Mode	802.11a/b/g/n HT20/HT40 Bluetooth BR/EDR/LE NFC:ASK							

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4.2 General LTE SAR Test and Reporting Considerations

Summarize	d ne	ecessary item	s address	ed in KDE	3 94122	5 D05 v0	2r05		
FCC ID	2AE	3VH-EM7355							
Equipment Name	Cel	lular Modem M	lodule						
Operating Frequency Range of each LTE transmission band	LTE LTE LTE LTE	LTE Band 02: 1850 MHz ~ 1910 MHz LTE Band 04: 1710 MHz ~ 1755 MHz LTE Band 05: 824 MHz ~ 849 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz							
Channel Bandwidth	LTE Band 02:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 04:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 05:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz								
uplink modulations used	QP:	SK, and 16QA	M						
LTE Voice / Data requirements	1.	Data only							
LTE MPR permanently built-in by design		Modulation	Cha	nnel bandw	idth / Tra	ansmission	PR) for Pov bandwidth	(RB)	MPR (dB)
		ODOM	MHz	MHz	MHz	MHz	MHz	MHz	
		QPSK 16 QAM	>5 ≤5	> 4 ≤ 4	>8 ≤8	> 12 ≤ 12	> 16 ≤ 16	> 18 ≤ 18	≤ 1 ≤ 1
		16 QAM	>5	>4	>8	> 12	> 16	> 18	≤ 2
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)								
Spectrum plots for RB configuration	mea not	A properly configured base station simulator was used for the SAR and power neasurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.							
Power reduction applied to satisfy SAR compliance	1.	Yes, Proximit	y Sensor.						

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Report No.: FA6N2110 Transmission (H, M, L) channel numbers and frequencies in each LTE band

	LTE Band 2													
Bandwidth 1.4 MHz Bandwid		Bandwid	dth 3 MHz Bandwidth 5 MHz			Bandwidth 10 MHz Bandwidt			h 15 MHz Ba		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq (MHz		. #	Freq. (MHz)	Ch.	#	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	186	675	1857.5	1870	00	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	189	900	1880	1890	00	1880
Н	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	5 19 ²	125	1902.5	1910	00	1900
LTE Band 4														
Bandwidth 1.4 MHz Bandwidth 3 MH:		th 3 MHz	Bandwidth 5 MHz		Bandwidth 10 MHz Ban		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq (MHz		. #	Freq. (MHz)	Ch.	#	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	200)25	1717.5	2005	0	1720
М	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.	5 201	175	1732.5	2017	7 5	1732.5
Н	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	203	325	1747.5	2030	00	1745
LTE Band 5														
	Ban	dwidth 1.4	MHz	Bandwidth 3 MHz			Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Ch. # Freq. (MHz) Ch. # Freq. (MHz)		Ch. # Freq. (MHz)		Ch. # Freq. (MHz)		q. (MHz)						

	LIE Band 5											
	Bandwidth 1.4 MHz			Bandwid	th 3 MHz	Bandwid	th 5 MHz	Bandwidth 10 MHz				
		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)			
	L	20407	824.7	20415	825.5	20425	826.5	20450	829			
I	M	20525	836.5	20525	836.5	20525	25 836.5 20525		836.5			
	Н	20643	20643 848.3 20635 847.5		20625	846.5	20600	844				

	LTE Band 13										
		Bandwid	th 5 MHz	Bandwidth 10 MHz							
		Channel #	Freq.(MHz)	Channel #	Freq.(MHz)						
	L	23205	779.5								
	M	23230	782	23230	782						
Ī	Н	23255	784.5								

		23233		704.5						
		LTE Band 17								
		Bandwic		Bandwidth 10 MHz						
		Channel #		Freq.(MHz)	Channel #		Freq. (MHz)			
	L	23755		706.5	23780			709		
1	M	23790		710	23790			710		
I	Н	23825		713.5	23800			711		
		LTE Band 25								
		Bandwidth 1.4 MHz Bandwid	lth 3 MHz	Bandwidth 5 MHz	Bandwidth 10 MHz	Bandwidt	h 15 MHz	Bandwidth 20 MHz		

	Bandwidtl	h 1.4 MHz	Bandwid	th 3 MHz	Bandwid	th 5 MHz	Bandwidt	h 10 MHz	Bandwidt	h 15 MHz	Bandwidt	h 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
Н	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905

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5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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5.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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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.

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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 (p). 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)

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

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

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7. System Description and Setup

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



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- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing,
 AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps,
- The phantom, the device holder and other accessories according to the targeted measurement.

7.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)	
Directivity	±0.2 dB in TSL (rotation around probe axis) ±0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μW/g – >100 mW/g; Linearity: ±0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	



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<EX3DV4 Probe>

Construction	Symmetric design with triangular core
	Built-in shielding against static charges
	PEEK enclosure material (resistant to organic
	solvents, e.g., DGBE)
Frequency	10 MHz – >6 GHz
	Linearity: ±0.2 dB (30 MHz – 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis)
	±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g – >100 mW/g
	Linearity: ±0.2 dB (noise: typically <1 µW/g)
Dimensions	Overall length: 337 mm (tip: 20 mm)
	Tip diameter: 2.5 mm (body: 12 mm)
	Typical distance from probe tip to dipole centers: 1
	mm



7.2 <u>Data Acquisition Electronics (DAE)</u>

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

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7.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	/
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 5
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





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Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

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8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

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8.2 Power Reference Measurement

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

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test dimeasurement point on the test	on, is smaller than the above, must be \leq the corresponding levice with at least one

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8.4 Zoom Scan

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

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	graded grid ΔZ_{Zoom}	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
		Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

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.

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

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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 $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9. Test Equipment List

Manufacturer	Name of Equipment	Towns/Mondal	Serial Number	Calibration		
Manutacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date	
SPEAG	750MHz System Validation Kit	D750V3	1012	May. 18, 2016	May. 17, 2017	
SPEAG	835MHz System Validation Kit	D835V2	4d200	Aug. 23, 2016	Aug. 22, 2017	
SPEAG	1750MHz System Validation Kit	D1750V2	1023	Jun. 23, 2016	Jun. 22, 2017	
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Sep. 30, 2016	Sep. 29, 2017	
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Sep. 27, 2016	Sep. 26, 2017	
SPEAG	Data Acquisition Electronics	DAE4	1388	Oct. 10, 2016	Oct. 09, 2017	
SPEAG	Data Acquisition Electronics	DAE4	679	Jun. 13, 2016	Jun. 12, 2017	
SPEAG	Dosimetric E-Field Probe	EX3DV4	3697	Oct. 25, 2016	Oct. 24, 2017	
SPEAG	Dosimetric E-Field Probe	EX3DV4	3898	Jul. 11, 2016	Jul. 10, 2017	
WonDer	Thermometer	WD-5015	TM281	Oct. 12, 2016	Oct. 11, 2017	
Wisewind	Thermometer	HTC-1	TM225	Oct. 12, 2016	Oct. 11, 2017	
Anritsu	Radio Communication Analyzer	MT8820C	6201381760	May. 10, 2016	May. 09, 2017	
Agilent	Wireless Communication Test Set	E5515C	MY50266977	May. 17, 2016	May. 16, 2017	
SPEAG	Device Holder	N/A	N/A	N/A	N/A	
Anritsu	Signal Generator	MG3710A	6201502524	Dec. 18, 2015	Dec. 17, 2016	
Agilent	ENA Network Analyzer	E5071C	MY46316648	Jan. 12, 2016	Jan. 11, 2017	
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Jul. 19, 2016	Jul. 18, 2017	
LINE SEIKI	Digital Thermometer	LKMelectronic	DTM3000SPEZIAL	Sep. 05, 2016	Sep. 04, 2017	
Anritsu	Power Meter	ML2495A	1419002	May. 10, 2016	May. 09, 2017	
Anritsu	Power Sensor	MA2411B	1339124	May. 10, 2016	May. 09, 2017	
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 21, 2016	Jun. 20, 2017	
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Mar. 16, 2016	Mar. 15, 2017	
Mini-Circuits	Power Amplifier	ZHL-42W+	QA1344002	Mar. 16, 2016	Mar. 15, 2017	
ATM	Dual Directional Coupler	C122H-10	P610410z-02	No	te 1	
Woken	Attenuator 1	WK0602-XX	N/A	No	te 1	
PE	Attenuator 2	PE7005-10	N/A	No	te 1	
PE	Attenuator 3	PE7005- 3	N/A	No	te 1	

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General Note:

Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.

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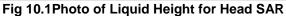
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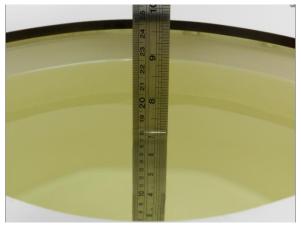
10. System Verification

10.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.







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Fig 10.2 Photo of Liquid Height for Body SAR

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10.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target

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tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
				For Body				
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	68.1	0	0	0.1	0	31.8	2.16	52.5

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

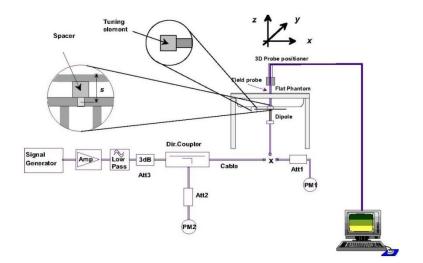
<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	MSL	22.5	0.973	53.923	0.96	55.50	1.35	-2.84	±5	2016/11/23
835	MSL	22.3	0.996	56.807	0.97	55.20	2.68	2.91	±5	2016/11/23
1750	MSL	22.7	1.491	55.338	1.49	53.40	0.07	3.63	±5	2016/11/24
1750	MSL	22.7	1.491	55.338	1.49	53.40	0.07	3.63	±5	2016/11/24
1900	MSL	22.7	1.520	55.092	1.52	53.30	0.00	3.36	±5	2016/11/24
1900	MSL	22.7	1.520	55.092	1.52	53.30	0.00	3.36	±5	2016/11/24
5250	MSL	22.4	5.423	47.485	5.36	48.95	1.18	-2.99	±5	2016/11/24

10.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2016/11/23	750	MSL	250	D750V3-1012	EX3DV4 - SN3697	DAE4 Sn1388	2.35	8.72	9.40	7.80
2016/11/23	835	MSL	250	D835V2-4d200	EX3DV4 - SN3697	DAE4 Sn1388	2.50	9.65	10.00	3.63
2016/11/24	1750	MSL	250	D1750V2-1023	EX3DV4 - SN3697	DAE4 Sn1388	9.48	36.40	37.92	4.18
2016/11/24	1750	MSL	250	D1750V2-1023	EX3DV4 - SN3898	DAE4 Sn679	9.26	36.40	37.04	1.76
2016/11/24	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3697	DAE4 Sn1388	9.40	38.80	37.60	-3.09
2016/11/24	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3898	DAE4 Sn679	10.40	38.80	41.60	7.22
2016/11/24	5250	MSL	100	D5GHzV2-1006	EX3DV4 - SN3898	DAE4 Sn679	7.33	75.50	73.30	-2.91





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Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

11. RF Exposure Positions

11.1 SAR Testing for Tablet

This device can be used also in full sized tablet exposure conditions, due to its size. Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR exclusion threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

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12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

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GSM850	Burst Av	erage Powe	er (dBm)	Tune-up	Frame-A	verage Pow	er (dBm)	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GPRS 1 Tx slot	32.05	32.12	32.10	33.00	23.05	23.12	23.10	24.00
GPRS 2 Tx slots	31.95	31.89	31.77	33.00	25.95	25.89	25.77	27.00
EDGE 1 Tx slot	27.29	27.31	27.32	28.00	18.29	18.31	18.32	19.00
EDGE 2 Tx slots	27.05	27.18	27.19	28.00	21.05	21.18	21.19	22.00
EDGE 3 Tx slots	27.05	27.01	27.02	28.00	22.79	22.75	22.76	23.74
EDGE 4 Tx slots	26.85	26.88	26.91	28.00	23.85	23.88	23.91	25.00

GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	erage Pov	ver (dBm)	Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GPRS 1 Tx slot	29.96	29.99	29.93	30.00	20.96	20.99	20.93	21.00
GPRS 2 Tx slots	29.95	29.97	29.91	30.00	23.95	23.97	23.91	24.00
EDGE 1 Tx slot	25.93	25.92	25.91	27.00	16.93	16.92	16.91	18.00
EDGE 2 Tx slots	25.65	25.71	25.66	27.00	19.65	19.71	19.66	21.00
EDGE 3 Tx slots	25.71	25.69	25.66	27.00	21.45	21.43	21.40	22.74
EDGE 4 Tx slots	25.55	25.51	25.41	27.00	22.55	22.51	22.41	24.00

<Pre><Pre>continues

GSM850	Burst A	verage Powe	er (dBm)	Tune-up	Frame-A	verage Pow	er (dBm)	Tune-up
X Channel	128	189	251	Limit	128	189	251	Limit
quency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
RS 1 Tx slot	25.71	25.62	25.53	26.50	16.71	16.62	16.53	17.50
RS 2 Tx slots	23.21	23.15	23.07	23.50	17.21	17.15	17.07	17.50
GE 1 Tx slot	25.70	25.68	25.60	27.00	16.70	16.68	16.60	18.00
GE 2 Tx slots	22.60	22.56	22.51	24.00	16.60	16.56	16.51	18.00
GE 3 Tx slots	21.00	21.01	21.05	22.00	16.74	16.75	16.79	17.74
GE 4 Tx slots	20.20	20.18	20.15	21.00	17.20	17.18	17.15	18.00
	GSM850 X Channel quency (MHz) PRS 1 Tx slot RS 2 Tx slots GE 1 Tx slot GE 2 Tx slots GE 3 Tx slots GE 4 Tx slots	TX Channel 128 quency (MHz) 824.2 PRS 1 Tx slot 25.71 PRS 2 Tx slots 23.21 PGE 1 Tx slot 25.70 PGE 2 Tx slots 22.60 PGE 3 Tx slots 21.00	X Channel 128 189 quency (MHz) 824.2 836.4 PRS 1 Tx slot 25.71 25.62 PRS 2 Tx slots 23.21 23.15 GE 1 Tx slot 25.70 25.68 GE 2 Tx slots 22.60 22.56 GE 3 Tx slots 21.00 21.01	128 189 251 128 quency (MHz) 824.2 836.4 848.8 128 1 Tx slot 25.71 25.62 25.53 128 2 Tx slots 23.21 23.15 23.07 128 2 Tx slots 25.70 25.62 25.53 128 2 Tx slots 23.21 23.15 23.07 128 2 Tx slots 25.60 25.68 25.60 128 2 Tx slots 22.60 22.56 22.51 128 2 Tx slots 21.00 21.01 21.05	Tune-up Limit (dBm) RX Channel 128 189 251 Limit (dBm) RS 1 Tx slot 25.71 25.62 25.53 26.50 RS 2 Tx slots 23.21 23.15 23.07 23.50 GE 1 Tx slot 25.70 25.68 25.60 27.00 GE 2 Tx slots 22.60 22.56 22.51 24.00 GE 3 Tx slots 21.00 21.01 21.05 22.00	TX Channel 128 189 251 Limit (dBm) 128 quency (MHz) 824.2 836.4 848.8 824.2 PRS 1 Tx slot 25.71 25.62 25.53 26.50 16.71 PRS 2 Tx slots 23.21 23.15 23.07 23.50 17.21 PRS 2 Tx slots 25.70 25.68 25.60 27.00 16.70 PRS 2 Tx slots 22.60 22.56 22.51 24.00 16.60 PRS 2 Tx slots 21.00 21.01 21.05 22.00 16.74	X Channel 128 189 251 Limit (dBm) 128 189 quency (MHz) 824.2 836.4 848.8 (dBm) 824.2 836.4 RS 1 Tx slot 25.71 25.62 25.53 26.50 16.71 16.62 RS 2 Tx slots 23.21 23.15 23.07 23.50 17.21 17.15 GE 1 Tx slot 25.70 25.68 25.60 27.00 16.70 16.68 GE 2 Tx slots 22.60 22.56 22.51 24.00 16.60 16.56 GE 3 Tx slots 21.00 21.01 21.05 22.00 16.74 16.75	Tune-up Limit (dBm) 128 189 251 (dBm) 824.2 836.4 848.8 824.2 836.4 848.8 824.2 836.4 848.8 824.2 836.4 848.8 824.2 836.4 848.8 824.2 836.4 848.8 824.2 836.4 848.8 828.2 Tx slots 23.21 23.15 23.07 23.50 16.71 16.62 16.53 88.2 Tx slots 23.21 23.15 23.07 23.50 17.21 17.15 17.07 86E 1 Tx slot 25.70 25.68 25.60 27.00 16.70 16.68 16.60 86E 2 Tx slots 22.60 22.56 22.51 24.00 16.60 16.56 16.51 86E 3 Tx slots 21.00 21.01 21.05 22.00 16.74 16.75 16.79

GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage Pov	ver (dBm)	Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GPRS 1 Tx slot	23.45	23.49	23.42	25.00	14.45	14.49	14.42	16.00
GPRS 2 Tx slots	21.82	21.64	21.80	22.00	15.82	15.64	15.80	16.00
EDGE 1 Tx slot	23.31	23.42	23.43	25.00	14.31	14.42	14.43	16.00
EDGE 2 Tx slots	21.01	21.02	21.15	22.00	15.01	15.02	15.15	16.00
EDGE 3 Tx slots	19.25	19.31	19.32	20.00	14.99	15.05	15.06	15.74
EDGE 4 Tx slots	18.12	18.23	18.18	19.00	15.12	15.23	15.18	16.00

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<WCDMA Conducted Power>

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<Pre><Pre>continues WCDMA II WCDMA IV WCDMA V Band Tune-up Tune-up Tune-up TX Channel 9262 9400 9538 1312 1413 1513 4132 4182 4233 Limit Limit Limit Rx Channel 9662 9800 9938 1537 1638 1738 4357 4407 4458 (dBm) (dBm) (dBm) 1852.4 1880 1907.6 1712.4 1732.6 1752.6 826.4 836.4 846.6 Frequency (MHz) 3GPP Rel 99 RMC 12.2Kbps 22.95 22.96 22.83 22.99 24.00 22.94 22.94 24.00 22.82 22.85 22.82 24.00 3GPP Rel 6 **HSDPA Subtest-1** 22.60 22.58 22.76 24.00 22.56 22.61 22.39 24.00 22.45 22.32 22.44 24.00 3GPP Rel 6 **HSDPA Subtest-2** 22.71 22.61 22.87 24.00 22.49 22.54 22.52 24.00 22.57 22.38 22.52 24.00 3GPP Rel 6 **HSDPA Subtest-3** 22.27 23.50 23.50 22.11 22.45 22.05 22.10 21.90 21.91 21.93 21.96 23.50 3GPP Rel 6 **HSDPA Subtest-4** 22.35 22.21 22.40 23.50 22.10 22.11 22.02 23.50 22.00 22.10 22.15 23.50 3GPP Rel 8 DC-HSDPA Subtest-1 22.56 22.55 22.74 24.00 22.49 22.35 22.38 24.00 22.39 22.29 22.30 24.00 3GPP Rel 8 DC-HSDPA Subtest-2 22.60 22.59 22.62 24.00 22.54 22.43 22.44 24.00 22.34 22.39 22.54 24.00 3GPP Rel 8 DC-HSDPA Subtest-3 22.11 22.00 22.31 23.50 22.07 21.98 22.03 23.50 22.00 21.81 21.87 23.50 3GPP Rel 8 DC-HSDPA Subtest-4 22.21 22.23 22.42 23.50 21.87 22.11 21.98 23.50 21.99 21.91 22.02 23.50 3GPP Rel 6 **HSUPA Subtest-1** 22.57 22.52 22.98 24.00 22.00 22.05 22.13 24.00 22.04 22.00 22.09 24.00 3GPP Rel 6 **HSUPA Subtest-2** 21.40 21.50 21.23 22.00 20.99 21.06 20.97 22.00 20.81 20.91 21.06 22.00 3GPP Rel 6 **HSUPA Subtest-3** 21.50 21.60 21.94 23.00 21.11 21.55 21.12 23.00 21.09 21.08 21.48 23.00 21.41 3GPP Rel 6 HSUPA Subtest-4 21.72 21.57 22.00 22.00 21.03 20.99 22.00 21.42 21.24 20.95 22.00 3GPP Rel 6 **HSUPA Subtest-5** 22.61 22.75 22.84 24.00 22.06 22.02 22.50 24.00 22.44 22.44 22.46 24.00

Proximity Sensor Active>

| Band | V | /CDMA | II | | W | /CDMA I | V | | V | /CDMA | V | |
|-------------------------------|--------|-------|--------|----------------|--------|---------|--------|----------------|-------|-------|-------|----------------|
| TX Channel | 9262 | 9400 | 9538 | Tune-up | 1312 | 1413 | 1513 | Tune-up | 4132 | 4182 | 4233 | Tune-up |
| Rx Channel | 9662 | 9800 | 9938 | Limit
(dBm) | 1537 | 1638 | 1738 | Limit
(dBm) | 4357 | 4407 | 4458 | Limit
(dBm) |
| Frequency (MHz) | 1852.4 | 1880 | 1907.6 | (, | 1712.4 | 1732.6 | 1752.6 | ` ' | 826.4 | 836.4 | 846.6 | () |
| 3GPP Rel 99 RMC 12.2Kbps | 14.87 | 14.93 | 14.79 | 16.00 | 13.81 | 13.39 | 13.73 | 15.00 | 16.69 | 16.67 | 16.71 | 18.00 |
| 3GPP Rel 6 HSDPA Subtest-1 | 14.28 | 14.17 | 14.08 | 16.00 | 13.46 | 13.57 | 13.08 | 15.00 | 16.35 | 16.18 | 16.21 | 18.00 |
| 3GPP Rel 6 HSDPA Subtest-2 | 14.30 | 14.24 | 14.05 | 16.00 | 13.41 | 13.63 | 13.15 | 15.00 | 16.43 | 16.27 | 16.12 | 18.00 |
| 3GPP Rel 6 HSDPA Subtest-3 | 14.06 | 13.87 | 13.58 | 15.50 | 13.02 | 13.36 | 12.90 | 14.50 | 15.76 | 15.62 | 15.81 | 17.50 |
| 3GPP Rel 6 HSDPA Subtest-4 | 14.09 | 13.96 | 13.66 | 15.50 | 13.23 | 13.31 | 12.88 | 14.50 | 15.95 | 15.72 | 15.81 | 17.50 |
| 3GPP Rel 8 DC-HSDPA Subtest-1 | 14.40 | 14.25 | 14.06 | 16.00 | 13.41 | 13.57 | 13.12 | 15.00 | 16.31 | 16.16 | 16.01 | 18.00 |
| 3GPP Rel 8 DC-HSDPA Subtest-2 | 14.09 | 14.16 | 14.07 | 16.00 | 13.58 | 13.72 | 13.25 | 15.00 | 16.45 | 16.25 | 16.21 | 18.00 |
| 3GPP Rel 8 DC-HSDPA Subtest-3 | 14.20 | 13.96 | 13.84 | 15.50 | 13.18 | 13.15 | 12.69 | 14.50 | 15.89 | 15.52 | 15.67 | 17.50 |
| 3GPP Rel 8 DC-HSDPA Subtest-4 | 14.08 | 13.94 | 13.71 | 15.50 | 13.09 | 13.35 | 12.94 | 14.50 | 15.78 | 15.73 | 15.74 | 17.50 |
| 3GPP Rel 6 HSUPA Subtest-1 | 14.02 | 14.07 | 14.02 | 16.00 | 13.52 | 13.15 | 13.27 | 15.00 | 16.12 | 16.01 | 16.07 | 18.00 |
| 3GPP Rel 6 HSUPA Subtest-2 | 12.84 | 12.66 | 12.55 | 14.00 | 11.19 | 11.18 | 11.09 | 13.00 | 14.72 | 14.99 | 14.53 | 16.00 |
| 3GPP Rel 6 HSUPA Subtest-3 | 13.42 | 13.30 | 13.15 | 15.00 | 12.25 | 12.42 | 12.01 | 14.00 | 15.20 | 15.05 | 15.31 | 17.00 |
| 3GPP Rel 6 HSUPA Subtest-4 | 13.36 | 13.28 | 13.09 | 14.00 | 11.44 | 11.55 | 11.27 | 13.00 | 14.78 | 14.65 | 14.73 | 16.00 |
| 3GPP Rel 6 HSUPA Subtest-5 | 14.70 | 14.80 | 14.54 | 16.00 | 13.40 | 13.41 | 13.01 | 15.00 | 16.42 | 16.07 | 16.22 | 18.00 |

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<CDMA2000 Conducted Power>

<Pre><Pre>continues

| Band | CDN | MA2000 B | C0 | Tune-up | CDM | 1A2000 | BC1 | Tune-up | CDN | /IA2000 E | 3C10 | Tune-up |
|-----------------|-------|----------|--------|---------|---------|--------|---------|---------|-------|-----------|-------|---------|
| TX Channel | 1013 | 384 | 777 | Limit | 25 | 600 | 1175 | Limit | 476 | 580 | 684 | Limit |
| Frequency (MHz) | 824.7 | 836.52 | 848.31 | (dBm) | 1851.25 | 1880 | 1908.75 | (dBm) | 817.9 | 820.5 | 823.1 | (dBm) |
| RC1 SO55 | 23.54 | 23.76 | 23.40 | 24.50 | 23.84 | 23.85 | 23.89 | 24.50 | 23.54 | 23.71 | 23.58 | 24.50 |
| RC3 SO55 | 23.71 | 23.71 | 23.43 | 24.50 | 23.81 | 23.85 | 23.93 | 24.50 | 23.63 | 23.77 | 23.61 | 24.50 |
| RTAP 153.6Kbps | 23.41 | 23.79 | 23.45 | 24.50 | 23.72 | 23.91 | 24.01 | 24.50 | 23.68 | 23.73 | 23.71 | 24.50 |
| RETAP 4096Bits | 23.58 | 23.71 | 23.61 | 24.50 | 23.67 | 23.84 | 23.96 | 24.50 | 23.64 | 23.57 | 23.62 | 24.50 |

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<Pre><Pre>continues

| Band | CDI | MA2000 B | C0 | Tune-u | CDM | A2000 | BC1 | Tune-up | CDI | 3C10 | Tune-u | |
|-----------------|-------|----------|--------|------------|---------|-------|---------|---------|-------|-------|--------|------------|
| TX Channel | 1013 | 384 | 777 | p
Limit | 25 | 600 | 1175 | Limit | 476 | 580 | 684 | p
Limit |
| Frequency (MHz) | 824.7 | 836.52 | 848.31 | (dBm) | 1851.25 | 1880 | 1908.75 | (dBm) | 817.9 | 820.5 | 823.1 | (dBm) |
| RC1 SO55 | 17.09 | 17.40 | 17.18 | 17.50 | 14.56 | 14.54 | 14.87 | 15.50 | 17.09 | 17.00 | 17.15 | 17.50 |
| RC3 SO55 | 17.19 | 17.32 | 17.22 | 17.50 | 14.60 | 14.51 | 14.86 | 15.50 | 17.30 | 17.21 | 17.35 | 17.50 |
| RTAP 153.6Kbps | 17.26 | 17.25 | 17.37 | 17.50 | 14.58 | 14.50 | 14.93 | 15.50 | 17.31 | 17.09 | 17.09 | 17.50 |
| RETAP 4096Bits | 17.00 | 17.02 | 16.97 | 17.50 | 14.50 | 14.52 | 14.92 | 15.50 | 17.12 | 17.21 | 17.02 | 17.50 |

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<LTE Conducted Power>

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<Pre><Pre>continues <LTE Band 2>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low | Power
Middle | Power
High | | |
|--------------|------------|----------|-----------|--------------|-----------------|---------------|---------------|------|
| 511 [111 12] | Modulation | 113 6126 | TED GHOOL | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit | MPR |
| | Chanr | nel | | 18700 | 18900 | 19100 | (dBm) | (dB) |
| | Frequency | (MHz) | | 1860 | 1880 | 1900 | | |
| 20 | QPSK | 1 | 0 | 23.39 | 23.50 | 23.20 | | |
| 20 | QPSK | 1 | 49 | 23.40 | 23.36 | 23.22 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 23.40 | 23.18 | 23.37 | | |
| 20 | QPSK | 50 | 0 | 22.25 | 22.22 | 22.27 | | |
| 20 | QPSK | 50 | 24 | 22.27 | 22.24 | 22.14 | 00 | 4 |
| 20 | QPSK | 50 | 50 | 22.32 | 22.18 | 22.18 | 23 | 1 |
| 20 | QPSK | 100 | 0 | 22.22 | 22.23 | 22.23 | | |
| 20 | 16QAM | 1 | 0 | 22.06 | 22.08 | 21.93 | | |
| 20 | 16QAM | 1 | 49 | 22.08 | 22.12 | 21.97 | 23 | 1 |
| 20 | 16QAM | 1 | 99 | 22.01 | 21.93 | 22.03 | | |
| 20 | 16QAM | 50 | 0 | 21.36 | 21.24 | 21.18 | | |
| 20 | 16QAM | 50 | 24 | 21.57 | 21.28 | 21.17 | 00 | • |
| 20 | 16QAM | 50 | 50 | 21.29 | 21.21 | 21.13 | 22 | 2 |
| 20 | 16QAM | 100 | 0 | 21.33 | 21.10 | 21.22 | | |
| | Chanr | nel | | 18675 | 18900 | 19125 | Tune-up limit | MPR |
| | Frequency | | | 1857.5 | 1880 | 1902.5 | (dBm) | (dB) |
| 15 | QPSK | 1 | 0 | 23.19 | 22.99 | 23.16 | | |
| 15 | QPSK | 1 | 37 | 23.09 | 22.99 | 23.28 | 24 | 0 |
| 15 | QPSK | 1 | 74 | 22.83 | 22.98 | 23.10 | | • |
| 15 | QPSK | 36 | 0 | 22.12 | 22.17 | 22.16 | | |
| 15 | QPSK | 36 | 20 | 22.08 | 22.00 | 22.26 | | |
| 15 | QPSK | 36 | 39 | 22.01 | 21.97 | 22.27 | 23 | 1 |
| 15 | QPSK | 75 | 0 | 22.00 | 22.10 | 22.15 | | |
| 15 | 16QAM | 1 | 0 | 22.14 | 22.05 | 22.33 | | |
| 15 | 16QAM | 1 | 37 | 21.99 | 22.08 | 22.20 | 23 | 1 |
| 15 | 16QAM | 1 | 74 | 21.95 | 21.94 | 22.07 | | · |
| 15 | 16QAM | 36 | 0 | 21.18 | 21.21 | 21.26 | | |
| 15 | 16QAM | 36 | 20 | 21.02 | 21.08 | 21.25 | | |
| 15 | 16QAM | 36 | 39 | 20.96 | 21.15 | 21.40 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 20.90 | 21.07 | 21.10 | - | |
| | Chanr | | Ü | 18650 | 18900 | 19150 | Tune-up limit | MPR |
| | Frequency | | | 1855 | 1880 | 1905 | (dBm) | (dB) |
| 10 | QPSK | 1 | 0 | 23.13 | 23.14 | 23.30 | | |
| 10 | QPSK | 1 | 24 | 23.07 | 22.99 | 23.21 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.88 | 23.11 | 23.16 | | |
| 10 | QPSK | 25 | 0 | 22.18 | 22.20 | 22.17 | | |
| 10 | QPSK | 25 | 12 | 22.03 | 22.21 | 22.25 | | |
| 10 | QPSK | 25 | 25 | 22.00 | 22.21 | 22.19 | 23 | 1 |
| 10 | QPSK | 50 | 0 | 21.94 | 22.01 | 22.19 | | |
| 10 | 16QAM | 1 | 0 | 22.32 | 22.06 | 22.33 | | |
| 10 | 16QAM | 1 | 25 | 22.01 | 22.20 | 22.32 | 23 | 1 |
| 10 | 16QAM | 1 | 49 | 21.83 | 21.99 | 22.09 | 20 | 1 |
| 10 | 16QAM | 25 | 0 | 21.03 | 21.99 | 21.38 | | |
| 10 | 16QAM | 25 | 12 | 21.24 | 21.22 | 21.36 | | |
| 10 | 16QAM | 25 | 25 | 21.15 | 21.11 | 21.44 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | | | 21.20 | | |
| 10 | TOQAIVI | | | 21.02 | 21.16 | 21.34 | | |

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| | Chanr | nel | | 18625 | 18900 | 19175 | Tune-up limit | MPR |
|-----|-----------|----------|-----|--------|-------|--------|---------------|----------|
| | Frequency | (MHz) | | 1852.5 | 1880 | 1907.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 23.29 | 23.03 | 23.21 | | |
| 5 | QPSK | 1 | 12 | 23.10 | 22.98 | 23.19 | 24 | 0 |
| 5 | QPSK | 1 | 24 | 22.97 | 23.02 | 23.26 | | |
| 5 | QPSK | 12 | 0 | 22.26 | 22.07 | 22.17 | | |
| 5 | QPSK | 12 | 7 | 22.17 | 22.09 | 22.39 | | |
| 5 | QPSK | 12 | 13 | 22.23 | 22.21 | 22.30 | 23 | 1 |
| 5 | QPSK | 25 | 0 | 22.07 | 22.14 | 22.25 | | |
| 5 | 16QAM | 1 | 0 | 22.20 | 22.05 | 22.23 | | |
| 5 | 16QAM | 1 | 12 | 22.12 | 22.20 | 22.34 | 23 | 1 |
| 5 | 16QAM | 1 | 24 | 22.01 | 22.13 | 22.18 | | |
| 5 | 16QAM | 12 | 0 | 21.30 | 21.31 | 21.19 | | |
| 5 | 16QAM | 12 | 7 | 21.25 | 21.18 | 21.38 | | |
| 5 | 16QAM | 12 | 13 | 21.25 | 21.11 | 21.24 | _ 22 | 2 |
| 5 | 16QAM | 25 | 0 | 21.20 | 21.25 | 21.31 | | |
| | Chanr | | | 18615 | 18900 | 19185 | Tune-up limit | MPR |
| | Frequency | | | 1851.5 | 1880 | 1908.5 | (dBm) | (dB) |
| 3 | QPSK | 1 | 0 | 23.22 | 23.19 | 23.30 | | <u> </u> |
| 3 | QPSK | 1 | 8 | 23.14 | 23.12 | 23.15 | 24 | 0 |
| 3 | QPSK | 1 | 14 | 23.11 | 23.05 | 23.19 | _ | |
| 3 | QPSK | 8 | 0 | 22.24 | 22.21 | 22.35 | | |
| 3 | QPSK | 8 | 4 | 22.26 | 22.09 | 22.29 | 1 | |
| 3 | QPSK | 8 | 7 | 22.32 | 22.26 | 22.40 | 23 | 1 |
| 3 | QPSK | 15 | 0 | 22.31 | 22.06 | 22.19 | 1 | |
| 3 | 16QAM | 1 | 0 | 22.17 | 22.12 | 22.37 | | |
| 3 | 16QAM | 1 | 8 | 22.16 | 22.21 | 22.31 | 23 | 1 |
| 3 | 16QAM | 1 | 14 | 22.16 | 22.20 | 22.19 | - 20 | • |
| 3 | 16QAM | <u> </u> | 0 | 21.32 | 21.22 | 21.19 | | |
| 3 | 16QAM | 8 | 4 | 21.34 | 21.09 | 21.34 | + | |
| 3 | 16QAM | 8 | 7 | 21.19 | 21.10 | 21.21 | 22 | 2 |
| 3 | 16QAM | 15 | 0 | 21.25 | 21.16 | 21.35 | + | |
| | Chanr | | - U | 18607 | 18900 | 19193 | Tune-up limit | MPR |
| | Frequency | | | 1850.7 | 1880 | 1909.3 | (dBm) | (dB) |
| 1.4 | QPSK | 1 | 0 | 23.11 | 23.02 | 23.12 | , , | |
| 1.4 | QPSK | 1 | 3 | 23.19 | 23.19 | 23.24 | | |
| 1.4 | QPSK | <u> </u> | 5 | 23.01 | 23.12 | 23.23 | | |
| 1.4 | QPSK | 3 | 0 | 23.24 | 23.10 | 23.23 | 24 | 0 |
| 1.4 | QPSK | 3 | 1 | 23.23 | 23.00 | 23.08 | | |
| 1.4 | QPSK | 3 | 3 | 23.20 | 23.03 | 23.23 | | |
| 1.4 | QPSK | 6 | 0 | 22.22 | 22.14 | 22.43 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 22.11 | 22.14 | 22.43 | 20 | ' |
| 1.4 | 16QAM | 1 | 3 | 22.11 | 22.09 | 22.35 | | |
| 1.4 | 16QAM | 1 | 5 | 22.27 | 22.03 | 22.30 | | |
| 1.4 | 16QAM | 3 | 0 | 22.13 | 22.14 | 22.32 | 23 | 1 |
| 1.4 | 16QAM | 3 | 1 | 22.21 | 22.14 | 22.32 | | |
| 1.4 | | 3 | 3 | 22.07 | 22.12 | 22.21 | - | |
| 1.4 | 16QAM | | | | | | | |

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<LTE Band 4>

| < <u>LTE Band</u> | <u> </u> | | | Power | Power | Power | | |
|-------------------|------------|----------|-----------|-------------|-------------|-------------|---------------|------|
| BW [MHz] | Modulation | RB Size | RB Offset | Low | Middle | High | | |
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit | MPR |
| | | nnel | | 20050 | 20175 | 20300 | (dBm) | (dB) |
| | | cy (MHz) | | 1720 | 1732.5 | 1745 | | |
| 20 | QPSK | 1 | 0 | 23.09 | 23.65 | 23.40 | | |
| 20 | QPSK | 1 | 49 | 23.29 | 23.39 | 23.27 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 23.20 | 23.38 | 23.28 | | |
| 20 | QPSK | 50 | 0 | 23.00 | 22.30 | 22.26 | | |
| 20 | QPSK | 50 | 24 | 22.99 | 22.38 | 22.11 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.11 | 22.17 | 21.99 | | ' |
| 20 | QPSK | 100 | 0 | 22.18 | 22.25 | 22.11 | | |
| 20 | 16QAM | 1 | 0 | 22.25 | 22.26 | 22.25 | | |
| 20 | 16QAM | 1 | 49 | 22.16 | 22.15 | 22.20 | 23 | 1 |
| 20 | 16QAM | 1 | 99 | 22.16 | 21.92 | 21.62 | | |
| 20 | 16QAM | 50 | 0 | 22.00 | 21.21 | 21.19 | | |
| 20 | 16QAM | 50 | 24 | 21.99 | 21.13 | 21.14 | 00 | 0 |
| 20 | 16QAM | 50 | 50 | 21.15 | 21.10 | 21.06 | 22 | 2 |
| 20 | 16QAM | 100 | 0 | 21.13 | 21.26 | 21.12 | | |
| | Cha | nnel | | 20025 | 20175 | 20325 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 1717.5 | 1732.5 | 1747.5 | (dBm) | (dB) |
| 15 | QPSK | 1 | 0 | 23.07 | 23.02 | 23.04 | | |
| 15 | QPSK | 1 | 37 | 22.98 | 22.88 | 22.88 | 24 | 0 |
| 15 | QPSK | 1 | 74 | 22.86 | 22.89 | 22.90 | | |
| 15 | QPSK | 36 | 0 | 22.10 | 21.86 | 22.06 | | |
| 15 | QPSK | 36 | 20 | 22.06 | 22.01 | 22.09 | | |
| 15 | QPSK | 36 | 39 | 21.87 | 21.99 | 21.80 | 23 | 1 |
| 15 | QPSK | 75 | 0 | 21.90 | 22.05 | 21.89 | | |
| 15 | 16QAM | 1 | 0 | 21.96 | 22.12 | 22.14 | | |
| 15 | 16QAM | 1 | 37 | 21.93 | 21.92 | 22.02 | 23 | 1 |
| 15 | 16QAM | 1 | 74 | 21.98 | 21.93 | 21.84 | | |
| 15 | 16QAM | 36 | 0 | 21.03 | 20.92 | 21.13 | | |
| 15 | 16QAM | 36 | 20 | 20.98 | 21.11 | 21.15 | | |
| 15 | 16QAM | 36 | 39 | 21.03 | 21.02 | 20.85 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 20.80 | 20.89 | 21.00 | | |
| | <u> </u> | nnel | | 20000 | 20175 | 20350 | Tune-up limit | MPR |
| | | cy (MHz) | | 1715 | 1732.5 | 1750 | (dBm) | (dB) |
| 10 | QPSK | 1 | 0 | 23.11 | 22.97 | 23.15 | | |
| 10 | QPSK | 1 | 24 | 22.92 | 22.91 | 22.97 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.95 | 22.88 | 22.80 | | • |
| 10 | QPSK | 25 | 0 | 22.04 | 21.95 | 21.94 | | |
| 10 | QPSK | 25 | 12 | 22.16 | 22.09 | 21.90 | | |
| 10 | QPSK | 25 | 25 | 22.16 | 22.07 | 21.88 | 23 | 1 |
| 10 | QPSK | 50 | 0 | 21.97 | 21.91 | 21.95 | | |
| 10 | 16QAM | 1 | 0 | 22.01 | 22.02 | 22.09 | | |
| 10 | 16QAM | 1 | 25 | 22.04 | 21.91 | 21.89 | 23 | 1 |
| 10 | 16QAM | 1 | 49 | 21.82 | 21.83 | 21.88 | | ' |
| 10 | 16QAM | 25 | 0 | 21.10 | 20.97 | 21.06 | | |
| 10 | 16QAM | 25 | 12 | 21.10 | 21.11 | 20.95 | | |
| 10 | 16QAM | 25 | 25 | 21.10 | 21.11 | 20.95 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 20.94 | 21.01 | 20.97 | - | |

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| | Chan | nel | | 19975 | 20175 | 20375 | Tune-up limit | MPR |
|---|-----------|---------|----|--------|--------|--------|---------------|------|
| | Frequency | y (MHz) | | 1712.5 | 1732.5 | 1752.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 22.97 | 22.90 | 23.02 | | |
| ; | QPSK | 1 | 12 | 23.02 | 22.87 | 22.83 | 24 | 0 |
| ; | QPSK | 1 | 24 | 22.97 | 22.98 | 22.95 | | |
| | QPSK | 12 | 0 | 22.02 | 22.03 | 21.84 | | |
| | QPSK | 12 | 7 | 22.06 | 21.95 | 21.91 | - | |
| | QPSK | 12 | 13 | 22.20 | 21.89 | 21.90 | 23 | 1 |
| | QPSK | 25 | 0 | 22.00 | 22.02 | 21.82 | | |
| | 16QAM | 1 | 0 | 22.02 | 22.04 | 22.01 | | |
| | 16QAM | 1 | 12 | 22.07 | 21.89 | 21.77 | 23 | 1 |
| ; | 16QAM | 1 | 24 | 21.99 | 22.09 | 21.87 | | |
| ; | 16QAM | 12 | 0 | 21.01 | 21.09 | 20.86 | | |
| | 16QAM | 12 | 7 | 21.10 | 20.98 | 21.01 | | 0 |
| ; | 16QAM | 12 | 13 | 21.04 | 21.01 | 21.02 | 22 | 2 |
| | 16QAM | 25 | 0 | 20.96 | 20.99 | 20.82 | | |
| | Chan | nel | | 19965 | 20175 | 20385 | Tune-up limit | MPR |
| | Frequency | y (MHz) | | 1711.5 | 1732.5 | 1753.5 | (dBm) | (dB) |
| | QPSK | 1 | 0 | 23.11 | 23.00 | 23.02 | | |
| | QPSK | 1 | 8 | 22.99 | 22.86 | 22.85 | 24 | 0 |
| | QPSK | 1 | 14 | 23.08 | 22.98 | 22.96 | | |
| | QPSK | 8 | 0 | 22.02 | 22.12 | 21.93 | | |
| | QPSK | 8 | 4 | 21.92 | 22.08 | 21.99 | | 4 |
| | QPSK | 8 | 7 | 22.14 | 21.94 | 21.95 | 23 | 1 |
| | QPSK | 15 | 0 | 22.02 | 21.98 | 21.82 | | |
| | 16QAM | 1 | 0 | 22.06 | 22.04 | 21.94 | | 1 |
| | 16QAM | 1 | 8 | 22.07 | 21.98 | 22.08 | 23 | |
| | 16QAM | 1 | 14 | 22.08 | 21.98 | 21.87 | | |
| | 16QAM | 8 | 0 | 20.99 | 21.06 | 20.79 | | |
| | 16QAM | 8 | 4 | 21.03 | 21.04 | 20.91 | | 0 |
| | 16QAM | 8 | 7 | 21.01 | 21.02 | 21.02 | _ 22 | 2 |
| | 16QAM | 15 | 0 | 21.04 | 20.91 | 20.85 | | |
| | Chan | inel | | 19957 | 20175 | 20393 | Tune-up limit | MPR |
| | Frequenc | y (MHz) | | 1710.7 | 1732.5 | 1754.3 | (dBm) | (dB) |
| 4 | QPSK | 1 | 0 | 22.94 | 22.82 | 23.02 | | |
| 4 | QPSK | 1 | 3 | 23.07 | 22.89 | 22.96 | | |
| 4 | QPSK | 1 | 5 | 23.10 | 23.00 | 22.87 | 24 | 0 |
| 4 | QPSK | 3 | 0 | 23.03 | 22.90 | 22.98 | 24 | U |
| 4 | QPSK | 3 | 1 | 23.01 | 23.06 | 22.99 | | |
| 4 | QPSK | 3 | 3 | 22.97 | 22.89 | 22.86 | | |
| 4 | QPSK | 6 | 0 | 22.06 | 22.11 | 22.03 | 23 | 1 |
| 4 | 16QAM | 1 | 0 | 22.10 | 21.98 | 21.98 | | |
| 4 | 16QAM | 1 | 3 | 21.98 | 21.84 | 21.97 | 22 | |
| 4 | 16QAM | 1 | 5 | 21.97 | 21.86 | 21.90 | | |
| 4 | 16QAM | 3 | 0 | 21.94 | 22.03 | 21.95 | 23 | 1 |
| 4 | 16QAM | 3 | 1 | 22.00 | 22.11 | 21.97 | | |
| 4 | 16QAM | 3 | 3 | 21.95 | 21.99 | 21.90 | | |
| 4 | 16QAM | 6 | 0 | 21.07 | 21.02 | 20.96 | 22 | 2 |

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<LTE Band 5>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low
Ch. / Freq. | Power
Middle
Ch. / Freq. | Power
High
Ch. / Freq. | Tune-up limit | MPR |
|----------|------------|----------|-----------|-----------------------------|--------------------------------|------------------------------|---------------|------|
| | Cha | nnel | | 20450 | 20525 | 20600 | (dBm) | (dB) |
| | Frequen | | | 829 | 836.5 | 844 | 1 | |
| 10 | QPSK | 1 | 0 | 23.19 | 23.11 | 22.96 | | |
| 10 | QPSK | 1 | 24 | 23.05 | 22.87 | 22.95 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 23.19 | 23.09 | 22.91 | | |
| 10 | QPSK | 25 | 0 | 22.04 | 22.07 | 21.89 | | |
| 10 | QPSK | 25 | 12 | 22.14 | 22.14 | 22.10 | | |
| 10 | QPSK | 25 | 25 | 22.19 | 22.16 | 22.13 | 23 | 1 |
| 10 | QPSK | 50 | 0 | 22.00 | 21.98 | 22.03 | | |
| 10 | 16QAM | 1 | 0 | 21.81 | 21.83 | 21.76 | | |
| 10 | 16QAM | 1 | 25 | 21.76 | 21.75 | 21.72 | 23 | 1 |
| 10 | 16QAM | 1 | 49 | 21.85 | 21.75 | 21.75 | | |
| 10 | 16QAM | 25 | 0 | 21.12 | 21.10 | 21.13 | | |
| 10 | 16QAM | 25 | 12 | 21.12 | 21.24 | 21.09 | | _ |
| 10 | 16QAM | 25 | 25 | 21.18 | 21.15 | 21.12 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 21.11 | 21.08 | 21.07 | | |
| | Cha | nnel | | 20425 | 20525 | 20625 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 826.5 | 836.5 | 846.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 22.51 | 22.52 | 22.75 | | |
| 5 | QPSK | 1 | 12 | 22.45 | 22.53 | 22.60 | 24 | 0 |
| 5 | QPSK | 1 | 24 | 22.65 | 22.50 | 22.49 | | |
| 5 | QPSK | 12 | 0 | 21.56 | 21.72 | 21.75 | | |
| 5 | QPSK | 12 | 7 | 21.56 | 21.72 | 21.62 | 1 | |
| 5 | QPSK | 12 | 13 | 21.66 | 21.67 | 21.54 | 23 | 1 |
| 5 | QPSK | 25 | 0 | 21.53 | 21.51 | 21.57 | | |
| 5 | 16QAM | 1 | 0 | 21.47 | 21.60 | 21.66 | | |
| 5 | 16QAM | 1 | 12 | 21.71 | 21.69 | 21.69 | 23 | 1 |
| 5 | 16QAM | 1 | 24 | 21.59 | 21.65 | 21.49 | | |
| 5 | 16QAM | 12 | 0 | 20.71 | 20.59 | 20.62 | | |
| 5 | 16QAM | 12 | 7 | 20.68 | 20.62 | 20.74 | 1 | |
| 5 | 16QAM | 12 | 13 | 20.71 | 20.63 | 20.59 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.58 | 20.63 | 20.57 | | |
| | Cha | nnel | | 20415 | 20525 | 20635 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 825.5 | 836.5 | 847.5 | (dBm) | (dB) |
| 3 | QPSK | 1 | 0 | 22.47 | 22.70 | 22.63 | | |
| 3 | QPSK | 1 | 8 | 22.58 | 22.67 | 22.63 | 24 | 0 |
| 3 | QPSK | 1 | 14 | 22.60 | 22.56 | 22.60 | | |
| 3 | QPSK | 8 | 0 | 21.52 | 21.69 | 21.64 | | |
| 3 | QPSK | 8 | 4 | 21.70 | 21.71 | 21.61 | 22 | 4 |
| 3 | QPSK | 8 | 7 | 21.49 | 21.60 | 21.67 | 23 | 1 |
| 3 | QPSK | 15 | 0 | 21.65 | 21.80 | 21.62 | | |
| 3 | 16QAM | 1 | 0 | 21.48 | 21.65 | 21.57 | | |
| 3 | 16QAM | 1 | 8 | 21.54 | 21.58 | 21.55 | 23 | 1 |
| 3 | 16QAM | 1 | 14 | 21.53 | 21.62 | 21.62 | | |
| 3 | 16QAM | 8 | 0 | 20.46 | 20.56 | 20.57 | | |
| 3 | 16QAM | 8 | 4 | 20.60 | 20.58 | 20.67 | 00 | _ |
| 3 | 16QAM | 8 | 7 | 20.51 | 20.58 | 20.52 | 22 | 2 |
| 3 | 16QAM | 15 | 0 | 20.67 | 20.65 | 20.67 | 1 | |

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| RTON LAB. F | CC SAR T | est Repor | t | | | | Report I | No. : FA6N211 |
|-------------|----------|-----------|---|-------|-------|-------|---------------|---------------|
| | Cha | innel | | 20407 | 20525 | 20643 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 824.7 | 836.5 | 848.3 | (dBm) | (dB) |
| 1.4 | QPSK | 1 | 0 | 22.48 | 22.63 | 22.58 | | |
| 1.4 | QPSK | 1 | 3 | 22.48 | 22.56 | 22.59 | | |
| 1.4 | QPSK | 1 | 5 | 22.66 | 22.54 | 22.66 | 0.4 | 0 |
| 1.4 | QPSK | 3 | 0 | 22.53 | 22.63 | 22.74 | 24 | 0 |
| 1.4 | QPSK | 3 | 1 | 22.60 | 22.73 | 22.61 | | |
| 1.4 | QPSK | 3 | 3 | 22.68 | 22.69 | 22.52 | | |
| 1.4 | QPSK | 6 | 0 | 21.69 | 21.63 | 21.63 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 21.46 | 21.66 | 21.64 | | |
| 1.4 | 16QAM | 1 | 3 | 21.54 | 21.58 | 21.64 | | |
| 1.4 | 16QAM | 1 | 5 | 21.65 | 21.63 | 21.49 | 00 | 4 |
| 1.4 | 16QAM | 3 | 0 | 21.64 | 21.68 | 21.61 | 23 | 1 |
| 1.4 | 16QAM | 3 | 1 | 21.57 | 21.65 | 21.76 | | |
| 1.4 | 16QAM | 3 | 3 | 21.66 | 21.61 | 21.62 | | |
| 1.4 | 16QAM | 6 | 0 | 20.73 | 20.69 | 20.55 | 22 | 2 |

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<LTE Band 13>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low
Ch. / Freq. | Power
Middle
Ch. / Freq. | Power
High
Ch. / Freq. | Tune-up limit | MPR |
|----------|------------|----------|-----------|-----------------------------|--------------------------------|------------------------------|---------------|------|
| | Cha | nnel | | | 23230 | | (dBm) | (dB) |
| | Frequen | cy (MHz) | | | 782 | | | |
| 10 | QPSK | 1 | 0 | | 23.28 | | | |
| 10 | QPSK | 1 | 24 | | 23.24 | | 24 | 0 |
| 10 | QPSK | 1 | 49 | | 23.20 | | | |
| 10 | QPSK | 25 | 0 | | 22.22 | | | |
| 10 | QPSK | 25 | 12 | | 22.32 | | 23 | 1 |
| 10 | QPSK | 25 | 25 | | 22.17 | | 23 | • |
| 10 | QPSK | 50 | 0 | | 22.06 | | | |
| 10 | 16QAM | 1 | 0 | | 21.67 | | | |
| 10 | 16QAM | 1 | 25 | | 21.93 | | 23 | 1 |
| 10 | 16QAM | 1 | 49 | | 21.74 | | | |
| 10 | 16QAM | 25 | 0 | | 21.10 | | | |
| 10 | 16QAM | 25 | 12 | | 21.24 | | 22 | 2 |
| 10 | 16QAM | 25 | 25 | | 21.23 | | | 2 |
| 10 | 16QAM | 50 | 0 | | 21.11 | | | |
| | Cha | nnel | | 23205 | 23230 | 23255 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 779.5 | 782 | 784.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 22.36 | 22.79 | 22.68 | | |
| 5 | QPSK | 1 | 12 | 22.79 | 22.62 | 22.73 | 24 | 0 |
| 5 | QPSK | 1 | 24 | 22.70 | 22.75 | 22.69 | | |
| 5 | QPSK | 12 | 0 | 21.52 | 21.60 | 21.77 | | |
| 5 | QPSK | 12 | 7 | 21.50 | 21.78 | 21.69 | 23 | 1 |
| 5 | QPSK | 12 | 13 | 21.81 | 21.87 | 21.73 | 23 | • |
| 5 | QPSK | 25 | 0 | 21.67 | 21.67 | 21.59 | | |
| 5 | 16QAM | 1 | 0 | 21.41 | 21.69 | 21.65 | | |
| 5 | 16QAM | 1 | 12 | 21.77 | 21.66 | 21.60 | 23 | 1 |
| 5 | 16QAM | 1 | 24 | 21.72 | 21.73 | 21.71 | | |
| 5 | 16QAM | 12 | 0 | 20.62 | 20.62 | 20.80 | | |
| 5 | 16QAM | 12 | 7 | 20.69 | 20.84 | 20.69 | 22 | 2 |
| 5 | 16QAM | 12 | 13 | 20.67 | 20.80 | 20.71 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.50 | 20.73 | 20.74 | | |

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<LTE Band 17>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low
Ch. / Freq. | Power
Middle
Ch. / Freq. | Power
High
Ch. / Freq. | Tune-up limit | MPR |
|----------|------------|----------|-----------|-----------------------------|--------------------------------|------------------------------|---------------|------|
| | Cha | nnel | | 23780 | 23790 | 23800 | (dBm) | (dB) |
| | Frequen | cy (MHz) | | 709 | 710 | 711 | | |
| 10 | QPSK | 1 | 0 | 22.61 | 22.77 | 22.71 | | |
| 10 | QPSK | 1 | 24 | 22.65 | 22.62 | 22.62 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.46 | 22.42 | 22.39 | | |
| 10 | QPSK | 25 | 0 | 21.73 | 21.87 | 21.69 | | |
| 10 | QPSK | 25 | 12 | 21.68 | 21.66 | 21.62 | 23 | 1 |
| 10 | QPSK | 25 | 25 | 21.67 | 21.66 | 21.60 | 23 | ' |
| 10 | QPSK | 50 | 0 | 21.52 | 21.63 | 21.61 | | |
| 10 | 16QAM | 1 | 0 | 21.54 | 21.70 | 21.66 | | |
| 10 | 16QAM | 1 | 25 | 21.82 | 21.70 | 21.84 | 23 | 1 |
| 10 | 16QAM | 1 | 49 | 21.54 | 21.67 | 21.43 | | |
| 10 | 16QAM | 25 | 0 | 20.66 | 20.62 | 20.63 | | |
| 10 | 16QAM | 25 | 12 | 20.71 | 20.81 | 20.66 | 22 | 2 |
| 10 | 16QAM | 25 | 25 | 20.88 | 20.77 | 20.59 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 20.58 | 20.69 | 20.65 | | |
| | Cha | nnel | | 23755 | 23790 | 23825 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 706.5 | 710 | 713.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 22.50 | 22.69 | 22.64 | | |
| 5 | QPSK | 1 | 12 | 22.69 | 22.58 | 22.62 | 24 | 0 |
| 5 | QPSK | 1 | 24 | 22.60 | 22.75 | 22.48 | | |
| 5 | QPSK | 12 | 0 | 21.59 | 21.83 | 21.57 | | |
| 5 | QPSK | 12 | 7 | 21.58 | 21.87 | 21.83 | 23 | 1 |
| 5 | QPSK | 12 | 13 | 21.84 | 21.86 | 21.57 | 23 | 1 |
| 5 | QPSK | 25 | 0 | 21.85 | 21.70 | 21.60 | | |
| 5 | 16QAM | 1 | 0 | 21.52 | 21.73 | 21.81 | | |
| 5 | 16QAM | 1 | 12 | 21.59 | 21.76 | 21.66 | 23 | 1 |
| 5 | 16QAM | 1 | 24 | 21.63 | 21.63 | 21.36 | | |
| 5 | 16QAM | 12 | 0 | 20.56 | 20.75 | 20.70 | | |
| 5 | 16QAM | 12 | 7 | 20.75 | 20.79 | 20.81 | 22 | 2 |
| 5 | 16QAM | 12 | 13 | 20.68 | 20.77 | 20.73 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.72 | 20.75 | 20.73 | | |

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<LTE Band 25>

| <lte band<="" th=""><th></th><th></th><th></th><th>Power</th><th>Power</th><th>Power</th><th></th><th></th></lte> | | | | Power | Power | Power | | |
|---|------------|----------|-----------|-------------|-------------|-------------|------------------------|-------------|
| BW [MHz] | Modulation | RB Size | RB Offset | Low | Middle | High | | |
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit
(dBm) | MPR
(dB) |
| | | nnel | | 26140 | 26340 | 26590 | (ubiii) | (ub) |
| | | cy (MHz) | | 1860 | 1880 | 1905 | | |
| 20 | QPSK | 1 | 0 | 23.01 | 22.98 | 23.24 | | |
| 20 | QPSK | 1 | 49 | 22.93 | 22.96 | 22.95 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 22.92 | 22.89 | 22.95 | | |
| 20 | QPSK | 50 | 0 | 22.19 | 22.14 | 22.18 | | |
| 20 | QPSK | 50 | 24 | 22.01 | 22.12 | 22.05 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.02 | 21.86 | 22.06 | | • |
| 20 | QPSK | 100 | 0 | 21.92 | 21.98 | 22.15 | | |
| 20 | 16QAM | 1 | 0 | 22.03 | 22.04 | 22.20 | | |
| 20 | 16QAM | 1 | 49 | 21.82 | 22.15 | 22.03 | 23 | 1 |
| 20 | 16QAM | 1 | 99 | 21.96 | 21.89 | 22.07 | | |
| 20 | 16QAM | 50 | 0 | 21.03 | 21.02 | 21.11 | | |
| 20 | 16QAM | 50 | 24 | 20.95 | 21.05 | 21.08 | 22 | 2 |
| 20 | 16QAM | 50 | 50 | 20.84 | 20.98 | 21.16 | 22 | 2 |
| 20 | 16QAM | 100 | 0 | 20.93 | 21.04 | 21.19 | | |
| | Cha | innel | | 26115 | 26340 | 26615 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 1857.5 | 1880 | 1907.5 | (dBm) | (dB) |
| 15 | QPSK | 1 | 0 | 23.16 | 23.00 | 23.16 | | |
| 15 | QPSK | 1 | 37 | 22.93 | 23.10 | 23.09 | 24 | 0 |
| 15 | QPSK | 1 | 74 | 22.87 | 22.85 | 23.10 | | |
| 15 | QPSK | 36 | 0 | 22.09 | 22.00 | 22.16 | | |
| 15 | QPSK | 36 | 20 | 22.00 | 21.97 | 22.06 | 1 | |
| 15 | QPSK | 36 | 39 | 21.90 | 22.01 | 22.29 | 23 | 1 |
| 15 | QPSK | 75 | 0 | 21.90 | 21.96 | 22.04 | 1 | |
| 15 | 16QAM | 1 | 0 | 22.09 | 22.05 | 22.16 | | |
| 15 | 16QAM | 1 | 37 | 21.82 | 21.97 | 22.16 | 23 | 1 |
| 15 | 16QAM | 1 | 74 | 21.94 | 22.01 | 22.14 | 1 | |
| 15 | 16QAM | 36 | 0 | 20.83 | 21.04 | 21.13 | | |
| 15 | 16QAM | 36 | 20 | 21.01 | 21.10 | 21.17 | - | |
| 15 | 16QAM | 36 | 39 | 20.78 | 20.91 | 21.30 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 20.87 | 20.91 | 20.97 | 1 | |
| | | nnel | | 26090 | 26340 | 26640 | Tune-up limit | MPR |
| | | cy (MHz) | | 1855 | 1880 | 1910 | (dBm) | (dB) |
| 10 | QPSK | 1 | 0 | 23.08 | 23.07 | 23.18 | | |
| 10 | QPSK | 1 | 24 | 22.90 | 22.96 | 23.01 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.97 | 22.89 | 23.07 | | |
| 10 | QPSK | 25 | 0 | 21.95 | 22.04 | 22.20 | | |
| 10 | QPSK | 25 | 12 | 22.03 | 22.12 | 22.20 | | |
| 10 | QPSK | 25 | 25 | 21.89 | 21.96 | 22.14 | 23 | 1 |
| 10 | QPSK | 50 | 0 | 21.86 | 22.12 | 22.14 | | |
| 10 | 16QAM | 1 | 0 | 22.07 | 22.12 | 22.20 | | |
| 10 | 16QAM | 1 | 25 | 21.95 | 21.95 | 22.00 | 23 | 1 |
| 10 | 16QAM | 1 | 49 | 21.95 | 21.95 | 22.15 | 23 | |
| 10 | 16QAM | | | | 21.09 | 21.22 | | |
| | | 25 | 0 | 21.09 | | 1 | - | |
| 10 | 16QAM | 25 | 12 | 20.97 | 21.04 | 21.22 | 22 | 2 |
| 10 | 16QAM | 25 | 25 | 20.88 | 21.08 | 21.26 | | |
| 10 | 16QAM | 50 | 0 | 20.99 | 21.05 | 21.18 | | |

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| ort No. : | | | | | | | | | |
|-----------|---------------|---------------|-------|--------|----|---|--------|----------|-----|
| limit M | Tune-up limit | 26665 Tune-up | 26340 | 26065 | | | nnel | Cha | |
| 1) (| (dBm) | 1912.5 (dBr | 1880 | 1852.5 | |) | су (МІ | Frequenc | |
| | | 23.28 | 22.92 | 23.05 | 0 | | | QPSK | 5 |
| | 24 | 23.16 24 | 22.96 | 22.97 | 12 | | | QPSK | 5 |
| | | 23.11 | 22.95 | 22.78 | 24 | | | QPSK | 5 |
| | | 22.21 | 22.18 | 22.02 | 0 | 2 | | QPSK | 5 |
| | 00 | 22.16 | 22.15 | 22.01 | 7 | 2 | | QPSK | 5 |
| | 23 | 22.15 | 22.03 | 21.93 | 13 | 2 | | QPSK | 5 |
| | | 22.22 | 22.05 | 22.09 | 0 | 5 | | QPSK | 5 |
| | | 22.16 | 21.99 | 22.09 | 0 | | | 16QAM | 5 |
| | 23 | 22.16 23 | 22.13 | 21.99 | 12 | | | 16QAM | 5 |
| | | 22.21 | 21.93 | 21.88 | 24 | | | 16QAM | 5 |
| | | 21.12 | 21.11 | 20.95 | 0 | 2 | | 16QAM | 5 |
| | 22 | 21.32 | 21.16 | 21.09 | 7 | 2 | | 16QAM | 5 |
| | | 21.29 | 21.11 | 20.96 | 13 | 2 | | 16QAM | 5 |
| | | 21.30 | 21.12 | 20.91 | 0 | 5 | | 16QAM | 5 |
| limit M | Tune-up limit | 26675 Tune-up | 26340 | 26055 | | | nnel | Cha | |
| n) (| (dBm) | 1913.5 (dBr | 1880 | 1851.5 | |) | су (МІ | Frequenc | |
| | | 23.24 | 23.00 | 23.10 | 0 | | | QPSK | 3 |
| | 24 | 23.18 24 | 22.95 | 23.02 | 8 | | | QPSK | 3 |
| | | 23.12 | 23.09 | 23.02 | 14 | | | QPSK | 3 |
| | | 22.25 | 22.06 | 22.04 | 0 | | | QPSK | 3 |
| | 23 | 22.23 | 22.07 | 21.96 | 4 | | | QPSK | 3 |
| | 23 | 22.25 | 22.06 | 22.05 | 7 | | | QPSK | 3 |
| | | 22.23 | 21.95 | 22.03 | 0 | 5 | | QPSK | 3 |
| | | 22.27 | 22.13 | 22.02 | 0 | | | 16QAM | 3 |
| | 23 | 22.18 23 | 21.99 | 21.85 | 8 | | | 16QAM | 3 |
| | | 22.13 | 22.09 | 22.00 | 14 | | | 16QAM | 3 |
| | | 21.19 | 21.04 | 20.89 | 0 | | | 16QAM | 3 |
| | 22 | 21.19 | 21.00 | 20.85 | 4 | | | 16QAM | 3 |
| | | 21.13 | 20.90 | 20.99 | 7 | | | 16QAM | 3 |
| | | 21.11 | 21.14 | 20.99 | 0 | 5 | | 16QAM | 3 |
| limit M | Tune-up limit | 26683 Tune-up | 26340 | 26047 | | | nnel | Cha | |
| 1) (| (dBm) | 1914.3 (dBr | 1880 | 1850.7 | |) | су (МІ | Frequenc | |
| | | 23.10 | 22.88 | 22.96 | 0 | | | QPSK | 1.4 |
| | | 23.20 | 23.03 | 23.08 | 3 | | | QPSK | 1.4 |
| | 24 | 23.16 | 22.97 | 23.02 | 5 | | | QPSK | 1.4 |
| | | 23.04 | 22.96 | 23.03 | 0 | | | QPSK | 1.4 |
| | | 23.16 | 23.03 | 23.12 | 1 | | | QPSK | 1.4 |
| | | 23.16 | 23.08 | 22.97 | 3 | | | QPSK | 1.4 |
| | 23 | 22.27 23 | 22.04 | 22.17 | 0 | | | QPSK | 1.4 |
| | | 22.30 | 22.05 | 22.04 | 0 | | | 16QAM | 1.4 |
| | | 22.16 | 21.94 | 21.90 | 3 | | | 16QAM | 1.4 |
| | 22 | 22.13 | 21.99 | 21.86 | 5 | | | 16QAM | 1.4 |
| | 23 | 22.00 | 22.07 | 22.08 | 0 | | | 16QAM | 1.4 |
| | | 22.25 | 22.10 | 22.11 | 1 | | | 16QAM | 1.4 |
| | | 22.27 | 22.09 | 22.04 | 3 | | | 16QAM | 1.4 |
| | 22 | 21.27 22 | 21.09 | 21.22 | 0 | | | 16QAM | 1.4 |

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<Pre><Pre>continues

<LTE Band 2>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low
Ch. / Freq. | Power
Middle
Ch. / Freq. | Power
High
Ch. / Freq. | Tune-up limit | MPR |
|----------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|------|
| | Chanr | nel | | 18700 | 18900 | 19100 | (dBm) | (dB) |
| | Frequency | (MHz) | | 1860 | 1880 | 1900 | | |
| 20 | QPSK | 1 | 0 | 13.72 | 13.85 | 14.39 | | |
| 20 | QPSK | 1 | 49 | 14.83 | 14.31 | 13.76 | 15 | 0 |
| 20 | QPSK | 1 | 99 | 13.42 | 14.32 | 14.17 | | |
| 20 | QPSK | 50 | 0 | 14.54 | 13.98 | 14.49 | | |
| 20 | QPSK | 50 | 24 | 14.79 | 14.21 | 13.97 | 1 | |
| 20 | QPSK | 50 | 50 | 14.20 | 14.32 | 13.77 | 15 | 0 |
| 20 | QPSK | 100 | 0 | 14.37 | 14.11 | 14.22 | | |
| 20 | 16QAM | 1 | 0 | 13.81 | 13.93 | 14.78 | | |
| 20 | 16QAM | 1 | 49 | 14.88 | 14.47 | 13.82 | 15 | 0 |
| 20 | 16QAM | 1 | 99 | 13.49 | 14.34 | 14.20 | | |
| 20 | 16QAM | 50 | 0 | 14.19 | 13.82 | 14.21 | | |
| 20 | 16QAM | 50 | 24 | 14.56 | 14.06 | 13.71 | 1 | |
| 20 | 16QAM | 50 | 50 | 13.86 | 14.36 | 13.64 | 15 | 0 |
| 20 | 16QAM | 100 | 0 | 14.02 | 14.09 | 13.95 | | |
| | Chan | | | 18675 | 18900 | 19125 | Tuno un limit | MPR |
| | Frequency | | | 1857.5 | 1880 | 1902.5 | Tune-up limit
(dBm) | (dB) |
| 15 | QPSK | 1 | 0 | 13.25 | 13.10 | 13.71 | (42111) | (32) |
| 15 | QPSK | 1 | 37 | 13.88 | 13.30 | 13.06 | 15 | 0 |
| 15 | QPSK | 1 | 74 | 13.03 | 14.11 | 14.26 | - ' | U |
| 15 | | | 0 | | | | | |
| | QPSK | 36 | | 13.77 | 13.24 | 13.31 | - | |
| 15 | QPSK | 36 | 20 | 13.66 | 13.26 | 13.00 | 15 | 0 |
| 15 | QPSK | 36 | 39 | 13.54 | 13.96 | 13.34 | _ | |
| 15 | QPSK | 75 | 0 | 13.73 | 13.50 | 13.45 | | |
| 15 | 16QAM | 1 | 0 | 13.47 | 13.00 | 14.02 | ا ہے ا | |
| 15 | 16QAM | 1 | 37 | 13.99 | 13.84 | 13.16 | 15 | 0 |
| 15 | 16QAM | 1 | 74 | 13.10 | 14.31 | 14.36 | | |
| 15 | 16QAM | 36 | 0 | 13.47 | 13.02 | 13.05 | 4 | |
| 15 | 16QAM | 36 | 20 | 13.49 | 13.46 | 13.06 | 15 | 0 |
| 15 | 16QAM | 36 | 39 | 13.34 | 13.63 | 13.15 | 4 | |
| 15 | 16QAM | 75 | 0 | 13.38 | 13.50 | 13.03 | | |
| | Chan | | | 18650 | 18900 | 19150 | Tune-up limit | MPR |
| | Frequency | , , | | 1855 | 1880 | 1905 | (dBm) | (dB) |
| 10 | QPSK | 1 | 0 | 13.67 | 13.44 | 13.17 | | |
| 10 | QPSK | 1 | 24 | 13.99 | 13.56 | 13.20 | 15 | 0 |
| 10 | QPSK | 1 | 49 | 14.18 | 14.08 | 14.16 | | |
| 10 | QPSK | 25 | 0 | 13.85 | 13.43 | 13.27 | | |
| 10 | QPSK | 25 | 12 | 14.11 | 13.56 | 13.29 | 15 | 0 |
| 10 | QPSK | 25 | 25 | 14.14 | 13.73 | 14.16 | | Ĭ |
| 10 | QPSK | 50 | 0 | 14.27 | 13.63 | 13.68 | | |
| 10 | 16QAM | 1 | 0 | 13.97 | 13.55 | 13.48 | | |
| 10 | 16QAM | 1 | 25 | 14.14 | 13.93 | 13.29 | 15 | 0 |
| 10 | 16QAM | 1 | 49 | 14.25 | 14.50 | 14.38 | | |
| 10 | 16QAM | 25 | 0 | 13.89 | 13.19 | 13.00 | | |
| 10 | 16QAM | 25 | 12 | 13.98 | 13.56 | 13.07 | 15 | 0 |
| 10 | 16QAM | 25 | 25 | 13.97 | 13.85 | 13.92 | 15 | 0 |
| 10 | 16QAM | 50 | 0 | 13.91 | 13.54 | 13.53 | | |

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| | Chann | el | | 18625 | 18900 | 19175 | Tune-up limit | MPR |
|-----|--|----------|-----|--------|----------------|----------------|------------------------|-------------|
| | Frequency | (MHz) | | 1852.5 | 1880 | 1907.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 13.14 | 13.06 | 13.16 | | |
| 5 | QPSK | 1 | 12 | 13.72 | 13.55 | 13.67 | 15 | 0 |
| 5 | QPSK | 1 | 24 | 13.66 | 13.53 | 14.77 | | |
| 5 | QPSK | 12 | 0 | 13.45 | 13.41 | 13.42 | | |
| 5 | QPSK | 12 | 7 | 13.60 | 13.58 | 13.93 | | |
| 5 | QPSK | 12 | 13 | 13.91 | 13.45 | 14.35 | 15 | 0 |
| 5 | QPSK | 25 | 0 | 13.70 | 13.34 | 13.90 | | |
| 5 | 16QAM | 1 | 0 | 13.59 | 13.22 | 13.19 | | |
| 5 | 16QAM | 1 | 12 | 14.15 | 13.84 | 13.85 | 15 | 0 |
| 5 | 16QAM | 1 | 24 | 14.26 | 13.86 | 14.99 | - 15 | O |
| 5 | 16QAM | 12 | 0 | 13.62 | 13.16 | 13.02 | | |
| 5 | 16QAM | 12 | 7 | 13.78 | 13.65 | 13.70 | - | |
| 5 | 16QAM | 12 | 13 | 13.76 | 13.62 | 14.19 | 15 | 0 |
| 5 | 16QAM | 25 | 0 | 13.87 | 13.55 | 13.65 | - | |
| J | Chann | | U | 18615 | 18900 | 19185 | Torreston Park | MDD |
| | Frequency | | | 1851.5 | 1880 | 1908.5 | Tune-up limit
(dBm) | MPR
(dB) |
| 2 | - | · / | 0 | 13.12 | | | (dDIII) | (ab) |
| 3 | QPSK
QPSK | <u> </u> | 0 8 | 13.76 | 13.27
13.50 | 13.68
14.27 | 15 | 0 |
| | | | | | | | 15 | U |
| 3 | QPSK | 1 | 14 | 13.67 | 13.45 | 14.85 | | |
| 3 | QPSK | 8 | 0 | 13.29 | 13.49 | 13.93 | _ | |
| 3 | QPSK | 8 | 4 | 13.74 | 13.68 | 14.25 | 15 | 0 |
| 3 | QPSK | 8 | 7 | 13.83 | 13.54 | 14.46 | _ | |
| 3 | QPSK | 15 | 0 | 13.56 | 13.44 | 14.33 | | |
| 3 | 16QAM | 1 | 0 | 13.57 | 13.47 | 13.65 | - 4- | |
| 3 | 16QAM | 1 | 8 | 14.12 | 13.99 | 14.38 | 15 | 0 |
| 3 | 16QAM | 1 | 14 | 14.07 | 13.68 | 14.93 | | |
| 3 | 16QAM | 8 | 0 | 13.55 | 13.49 | 13.60 | _ | |
| 3 | 16QAM | 8 | 4 | 13.79 | 13.63 | 14.22 | 15 | 0 |
| 3 | 16QAM | 8 | 7 | 13.82 | 13.52 | 14.47 | | |
| 3 | 16QAM | 15 | 0 | 13.63 | 13.48 | 14.12 | | |
| | Chann | | | 18607 | 18900 | 19193 | Tune-up limit | MPR |
| | Frequency | (MHz) | | 1850.7 | 1880 | 1909.3 | (dBm) | (dB) |
| 1.4 | QPSK | 1 | 0 | 13.39 | 13.62 | 14.40 | | |
| 1.4 | QPSK | 1 | 3 | 13.67 | 13.59 | 14.88 | | |
| 1.4 | QPSK | 1 | 5 | 13.73 | 13.52 | 14.98 | 15 | 0 |
| 1.4 | QPSK | 3 | 0 | 13.57 | 13.72 | 14.66 | | Ŭ |
| 1.4 | QPSK | 3 | 1 | 13.59 | 13.76 | 14.77 | | |
| 1.4 | QPSK | 3 | 3 | 13.59 | 13.61 | 14.99 | | |
| 1.4 | QPSK | 6 | 0 | 13.59 | 13.64 | 14.84 | 15 | 0 |
| 1.4 | 16QAM | 1 | 0 | 13.78 | 13.93 | 14.33 | 3 4 9 15 | |
| 1.4 | 16QAM | 1 | 3 | 14.00 | 13.99 | 14.94 | | |
| 1.4 | 16QAM | 1 | 5 | 13.98 | 13.94 | 14.99 | | _ |
| 1.4 | 16QAM | 3 | 0 | 13.58 | 13.71 | 14.34 | | 0 |
| 1.4 | 16QAM | 3 | 1 | 13.55 | 13.63 | 14.47 | | |
| 1.4 | 16QAM | 3 | 3 | 13.74 | 13.71 | 14.60 | | |
| 1.4 | 16QAM | 6 | 0 | 13.72 | 13.76 | 14.50 | 15 | 0 |

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<LTE Band 4>

| <lte band<="" th=""><th><u>* 12</u></th><th></th><th></th><th>Dames</th><th>Damar</th><th>Dannar</th><th></th><th></th></lte> | <u>* 12</u> | | | Dames | Damar | Dannar | | |
|---|-------------|----------|-----------|--------------|-----------------|---------------|---------------|------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low | Power
Middle | Power
High | | |
| 511 [111 12] | Modulation | 112 0120 | TE SHOOT | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit | MPR |
| | Cha | nnel | | 20050 | 20175 | 20300 | (dBm) | (dB) |
| | Frequen | cy (MHz) | | 1720 | 1732.5 | 1745 | | |
| 20 | QPSK | 1 | 0 | 13.56 | 14.04 | 13.97 | | |
| 20 | QPSK | 1 | 49 | 14.11 | 13.91 | 13.83 | 14.5 | 0 |
| 20 | QPSK | 1 | 99 | 13.65 | 13.24 | 13.89 | | |
| 20 | QPSK | 50 | 0 | 14.19 | 14.02 | 14.10 | | |
| 20 | QPSK | 50 | 24 | 14.06 | 13.93 | 13.84 | 1 445 | 0 |
| 20 | QPSK | 50 | 50 | 14.04 | 13.66 | 13.86 | 14.5 | 0 |
| 20 | QPSK | 100 | 0 | 14.09 | 13.69 | 13.80 | | |
| 20 | 16QAM | 1 | 0 | 13.68 | 14.10 | 14.09 | | |
| 20 | 16QAM | 1 | 49 | 14.11 | 14.00 | 13.53 | 14.5 | 0 |
| 20 | 16QAM | 1 | 99 | 13.96 | 13.00 | 13.56 | 1 | |
| 20 | 16QAM | 50 | 0 | 13.82 | 13.74 | 13.83 | | |
| 20 | 16QAM | 50 | 24 | 13.73 | 13.72 | 13.84 | 1 | _ |
| 20 | 16QAM | 50 | 50 | 13.77 | 13.44 | 13.25 | 14.5 | 0 |
| 20 | 16QAM | 100 | 0 | 13.72 | 13.73 | 13.79 | 1 | |
| | Cha | nnel | • | 20025 | 20175 | 20325 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 1717.5 | 1732.5 | 1747.5 | (dBm) | (dB) |
| 15 | QPSK | 1 | 0 | 12.89 | 13.90 | 13.47 | | |
| 15 | QPSK | 1 | 37 | 13.34 | 13.46 | 13.27 | 14.5 | 0 |
| 15 | QPSK | 1 | 74 | 13.57 | 12.67 | 13.38 | 1 | |
| 15 | QPSK | 36 | 0 | 13.33 | 13.68 | 13.29 | | |
| 15 | QPSK | 36 | 20 | 13.31 | 13.51 | 13.34 | - | |
| 15 | QPSK | 36 | 39 | 13.39 | 13.45 | 13.17 | 14.5 | 0 |
| 15 | QPSK | 75 | 0 | 13.26 | 13.40 | 13.19 | | |
| 15 | 16QAM | 1 | 0 | 12.89 | 13.79 | 13.20 | | |
| 15 | 16QAM | 1 | 37 | 13.44 | 13.59 | 13.53 | 14.5 | 0 |
| 15 | 16QAM | 1 | 74 | 13.74 | 13.02 | 13.23 | 1 | |
| 15 | 16QAM | 36 | 0 | 13.17 | 13.54 | 13.28 | | |
| 15 | 16QAM | 36 | 20 | 13.23 | 13.27 | 13.31 | - | |
| 15 | 16QAM | 36 | 39 | 13.31 | 12.75 | 12.76 | 14.5 | 0 |
| 15 | 16QAM | 75 | 0 | 13.07 | 13.36 | 13.24 | - | |
| | Cha | | | 20000 | 20175 | 20350 | Tune-up limit | MPR |
| | Frequen | | | 1715 | 1732.5 | 1750 | (dBm) | (dB) |
| 10 | QPSK | 1 | 0 | 13.21 | 14.04 | 13.71 | | |
| 10 | QPSK | 1 | 24 | 13.36 | 13.71 | 13.48 | 14.5 | 0 |
| 10 | QPSK | 1 | 49 | 13.88 | 13.16 | 13.74 | | |
| 10 | QPSK | 25 | 0 | 13.58 | 13.93 | 13.63 | | |
| 10 | QPSK | 25 | 12 | 13.39 | 13.78 | 13.46 | | |
| 10 | QPSK | 25 | 25 | 13.59 | 13.44 | 13.49 | 14.5 | 0 |
| 10 | QPSK | 50 | 0 | 13.48 | 13.62 | 13.61 | | |
| 10 | 16QAM | 1 | 0 | 13.26 | 14.25 | 13.65 | | |
| 10 | 16QAM | 1 | 25 | 13.35 | 13.65 | 13.75 | 14.5 | 0 |
| 10 | 16QAM | 1 | 49 | 13.82 | 13.47 | 13.38 | | |
| 10 | 16QAM | 25 | 0 | 13.31 | 13.65 | 13.04 | | |
| 10 | 16QAM | 25 | 12 | 13.27 | 13.41 | 12.91 | | |
| 10 | 16QAM | 25 | 25 | 13.40 | 13.02 | 13.48 | 14.5 | 0 |
| 10 | 16QAM | 50 | 0 | 13.38 | 13.61 | 13.02 | 1 | |

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| MPR | Tune-up limit | 20375 | 20175 | 19975 | | nnel | Char | |
|-------------|------------------------|-----------------|-----------------|-----------------|----|------------------------|------------------|-----|
| (dB) | (dBm) | 1752.5 | 1732.5 | 1712.5 | | | Frequenc | |
| (a.2) | (42) | 13.59 | 13.69 | 12.94 | 0 | 1 | QPSK | 5 |
| 0 | 14.5 | 13.41 | 13.79 | 13.23 | 12 | 1 | QPSK | 5 |
| J | 14.0 | 13.40 | 13.24 | 13.35 | 24 | 1 | QPSK | 5 |
| | | 13.41 | 13.72 | 13.28 | 0 | 12 | QPSK | 5 |
| | | 13.37 | 13.84 | 13.20 | 7 | 12 | QPSK | 5 |
| 0 | 14.5 | 13.45 | 13.50 | 13.27 | 13 | 12 | QPSK | 5 |
| | | 13.30 | 13.38 | 13.45 | 0 | 25 | QPSK | 5 |
| | | 13.20 | 13.79 | 12.85 | 0 | 1 | 16QAM | 5 |
| 0 | 14.5 | 13.90 | 13.79 | 13.52 | 12 | 1 | 16QAM | 5 |
| U | 14.5 | 13.75 | 13.14 | 13.51 | 24 | 1 | 16QAM | 5 |
| | | 13.57 | 13.61 | 12.98 | 0 | 12 | 16QAM | 5 |
| | | 13.55 | 13.58 | 13.03 | 7 | 12 | 16QAM | 5 |
| 0 | 14.5 | 13.50 | 12.83 | 12.95 | 13 | 12 | 16QAM | 5 |
| | | 13.41 | 13.57 | 13.05 | 0 | 25 | 16QAM | 5 |
| MPR | Tuno un limit | 20385 | 20175 | 19965 | | | Char | J |
| (dB) | Tune-up limit
(dBm) | 1753.5 | 1732.5 | 1711.5 | | | Frequenc | |
| (ab) | (0311) | 13.45 | 13.69 | 12.99 | 0 | y (IVI⊓ <i>∠)</i>
1 | QPSK | 3 |
| 0 | 14.5 | 13.43 | 13.77 | 13.24 | 8 | 1 | QPSK | 3 |
| U | 14.5 | 13.36 | 13.77 | 13.24 | 14 | 1 | QPSK | 3 |
| | — | 13.44 | 13.87 | 13.39 | 0 | 8 | QPSK | 3 |
| | - | 13.54 | 13.79 | 13.35 | 4 | 8 | QPSK | 3 |
| 0 | 14.5 | 13.37 | 13.79 | 13.34 | 7 | 8 | QPSK | 3 |
| | - | 13.36 | 13.45 | 13.35 | 0 | o
15 | QPSK
QPSK | 3 |
| | | 13.78 | 13.79 | 13.42 | 0 | 1 | 16QAM | 3 |
| 0 | 14.5 | 13.76 | 13.79 | 13.42 | 8 | 1 | 16QAM | 3 |
| U | - 14.5 | 13.77 | 13.73 | 13.41 | 14 | 1 | 16QAM | 3 |
| | | | 13.13 | | 0 | 8
8 | | 3 |
| | - | 13.35 | | 13.25 | 4 | | 16QAM | |
| 0 | 14.5 | 13.67 | 13.66 | 13.22 | 7 | 8 | 16QAM | 3 |
| | - | 13.50 | 13.60 | 13.25 | 0 | 15 | 16QAM | 3 |
| | | 13.43
20393 | 13.61 | 13.14 | U | | 16QAM | 3 |
| MPR
(dB) | Tune-up limit
(dBm) | | 20175 | 19957 | | | Char | |
| (ub) | (dBIII) | 1754.3
13.95 | 1732.5
13.81 | 1710.7
13.26 | 0 | y (IVI⊓∠ <i>)</i>
1 | Frequenc
QPSK | 1.4 |
| | - | 14.06 | 13.82 | 13.28 | 3 | 1 | QPSK | 1.4 |
| | - | | | | 5 | | | |
| 0 | 14.5 | 14.02 | 13.78 | 13.28 | | 1 | QPSK | 1.4 |
| | - | 13.39 | 13.88 | 13.33 | 0 | 3 | QPSK | 1.4 |
| | - | 14.10 | 13.85 | 13.31 | 1 | 3 | QPSK | 1.4 |
| - | 44.5 | 13.91 | 13.82 | 13.48 | 3 | 3 | QPSK | 1.4 |
| 0 | 14.5 | 13.83 | 13.94 | 13.30 | 0 | 6 | QPSK | 1.4 |
| | - | 13.57 | 13.76 | 13.46 | 0 | 1 | 16QAM | 1.4 |
| | - | 13.82 | 13.79 | 13.57 | 3 | 1 | 16QAM | 1.4 |
| 0 | 14.5 | 13.62 | 13.77 | 13.34 | 5 | 1 | 16QAM | 1.4 |
| | - | 13.49 | 13.61 | 13.17 | 0 | 3 | 16QAM | 1.4 |
| | 4 | 13.52 | 13.68 | 13.14 | 1 | 3 | 16QAM | 1.4 |
| | | 13.26 | 13.58 | 13.08 | 3 | 3 | 16QAM | 1.4 |
| 0 | 14.5 | 13.38 | 13.60 | 13.18 | 0 | 6 | 16QAM | 1.4 |

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<LTE Band 5>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low | Power
Middle | Power
High | | |
|----------|------------|----------|-----------|--------------|-----------------|---------------|---------------|------|
| [] | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit | MPR |
| | Cha | nnel | | 20450 | 20525 | 20600 | (dBm) | (dB) |
| | Frequen | cy (MHz) | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 0 | 15.63 | 15.79 | 15.87 | | |
| 10 | QPSK | 1 | 24 | 15.83 | 15.95 | 15.99 | 17 | 0 |
| 10 | QPSK | 1 | 49 | 16.07 | 15.90 | 15.35 | | |
| 10 | QPSK | 25 | 0 | 15.62 | 15.99 | 15.98 | | |
| 10 | QPSK | 25 | 12 | 15.89 | 16.04 | 16.05 | 47 | 0 |
| 10 | QPSK | 25 | 25 | 15.98 | 15.96 | 15.25 | 17 | 0 |
| 10 | QPSK | 50 | 0 | 15.81 | 15.99 | 15.96 | | |
| 10 | 16QAM | 1 | 0 | 16.22 | 15.60 | 15.67 | | |
| 10 | 16QAM | 1 | 25 | 16.46 | 16.57 | 15.78 | 17 | 0 |
| 10 | 16QAM | 1 | 49 | 15.82 | 15.65 | 15.43 | | |
| 10 | 16QAM | 25 | 0 | 15.63 | 16.02 | 15.19 | | |
| 10 | 16QAM | 25 | 12 | 15.92 | 16.05 | 15.23 | 4- | |
| 10 | 16QAM | 25 | 25 | 15.96 | 15.98 | 15.27 | 17 | 0 |
| 10 | 16QAM | 50 | 0 | 15.85 | 16.03 | 15.15 | | |
| | Cha | nnel | | 20425 | 20525 | 20625 | Tune-up limit | MPR |
| | Frequen | cy (MHz) | | 826.5 | 836.5 | 846.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 15.42 | 15.47 | 15.40 | | |
| 5 | QPSK | 1 | 12 | 15.69 | 16.00 | 15.75 | 17 | 0 |
| 5 | QPSK | 1 | 24 | 15.44 | 15.64 | 15.41 | 1 | |
| 5 | QPSK | 12 | 0 | 15.54 | 15.70 | 15.45 | | |
| 5 | QPSK | 12 | 7 | 15.82 | 16.06 | 15.57 | | |
| 5 | QPSK | 12 | 13 | 15.57 | 15.85 | 15.78 | 17 | 0 |
| 5 | QPSK | 25 | 0 | 15.61 | 15.81 | 15.72 | 1 | |
| 5 | 16QAM | 1 | 0 | 15.89 | 15.16 | 15.43 | | |
| 5 | 16QAM | 1 | 12 | 16.16 | 16.33 | 15.79 | 17 | 0 |
| 5 | 16QAM | 1 | 24 | 15.03 | 15.14 | 15.68 | | |
| 5 | 16QAM | 12 | 0 | 15.68 | 15.04 | 15.61 | | |
| 5 | 16QAM | 12 | 7 | 15.85 | 16.02 | 15.78 | | |
| 5 | 16QAM | 12 | 13 | 15.80 | 15.19 | 15.46 | 17 | 0 |
| 5 | 16QAM | 25 | 0 | 15.77 | 15.00 | 15.52 | | |
| | Cha | | | 20415 | 20525 | 20635 | Tune-up limit | MPR |
| | | cy (MHz) | | 825.5 | 836.5 | 847.5 | (dBm) | (dB) |
| 3 | QPSK | 1 | 0 | 15.83 | 15.70 | 15.56 | | |
| 3 | QPSK | 1 | 8 | 15.95 | 15.99 | 15.90 | 17 | 0 |
| 3 | QPSK | 1 | 14 | 15.73 | 15.82 | 15.60 | | |
| 3 | QPSK | 8 | 0 | 15.76 | 15.79 | 15.78 | | |
| 3 | QPSK | 8 | 4 | 15.86 | 15.94 | 15.96 | | |
| 3 | QPSK | 8 | 7 | 15.87 | 16.01 | 15.68 | 17 | 0 |
| 3 | QPSK | 15 | 0 | 15.77 | 15.87 | 15.80 | | |
| 3 | 16QAM | 1 | 0 | 16.26 | 15.24 | 15.61 | | |
| 3 | 16QAM | 1 | 8 | 16.32 | 16.26 | 16.03 | 17 | 0 |
| 3 | 16QAM | 1 | 14 | 16.02 | 15.28 | 15.92 | | _ |
| 3 | 16QAM | 8 | 0 | 15.87 | 15.98 | 15.70 | | |
| 3 | 16QAM | 8 | 4 | 16.02 | 16.10 | 15.80 | | |
| 3 | 16QAM | 8 | 7 | 16.04 | 16.09 | 15.58 | 17 | 0 |
| 3 | 16QAM | 15 | 0 | 15.96 | 15.87 | 15.56 | | |

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| | Cha | nnel | | 20407 | 20525 | 20643 | Tune-up limit | MPR |
|-----|---------|----------|---|-------|-------|-------|---------------|------|
| | Frequen | cy (MHz) | | 824.7 | 836.5 | 848.3 | (dBm) | (dB) |
| 1.4 | QPSK | 1 | 0 | 15.73 | 15.92 | 15.86 | | |
| 1.4 | QPSK | 1 | 3 | 15.74 | 15.98 | 15.98 | | |
| 1.4 | QPSK | 1 | 5 | 15.58 | 15.90 | 15.82 | 17 | 0 |
| 1.4 | QPSK | 3 | 0 | 15.87 | 16.05 | 15.77 | 17 | U |
| 1.4 | QPSK | 3 | 1 | 15.86 | 16.08 | 15.87 | | |
| 1.4 | QPSK | 3 | 3 | 15.71 | 15.94 | 15.86 | | |
| 1.4 | QPSK | 6 | 0 | 15.82 | 16.11 | 15.88 | 17 | 0 |
| 1.4 | 16QAM | 1 | 0 | 16.15 | 16.18 | 15.98 | | |
| 1.4 | 16QAM | 1 | 3 | 16.19 | 16.32 | 16.09 | | |
| 1.4 | 16QAM | 1 | 5 | 16.12 | 16.34 | 16.03 | 17 | 0 |
| 1.4 | 16QAM | 3 | 0 | 16.04 | 16.12 | 15.74 | 17 | U |
| 1.4 | 16QAM | 3 | 1 | 16.02 | 16.08 | 15.75 | | |
| 1.4 | 16QAM | 3 | 3 | 15.78 | 16.02 | 15.53 | | |
| 1.4 | 16QAM | 6 | 0 | 16.07 | 16.02 | 15.74 | 17 | 0 |

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<LTE Band 13>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low | Power
Middle | Power
High | | |
|----------|------------|----------|-----------|--------------|-----------------|---------------|---------------|------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit | MPR |
| | Cha | | | | 23230 | | (dBm) | (dB) |
| | Frequenc | cy (MHz) | | | 782 | | | |
| 10 | QPSK | 1 | 0 | | 16.33 | | | |
| 10 | QPSK | 1 | 24 | | 16.52 | | 18 | 0 |
| 10 | QPSK | 1 | 49 | | 16.54 | | | |
| 10 | QPSK | 25 | 0 | | 16.38 | | | |
| 10 | QPSK | 25 | 12 | | 16.46 | | 18 | 0 |
| 10 | QPSK | 25 | 25 | | 16.44 | | 10 | U |
| 10 | QPSK | 50 | 0 | | 16.32 | | | |
| 10 | 16QAM | 1 | 0 | | 16.46 | | | |
| 10 | 16QAM | 1 | 25 | | 16.68 | | 18 | 0 |
| 10 | 16QAM | 1 | 49 | | 16.51 | | | |
| 10 | 16QAM | 25 | 0 | | 16.26 | | | |
| 10 | 16QAM | 25 | 12 | | 16.28 | | 18 | 0 |
| 10 | 16QAM | 25 | 25 | | 16.42 | | 10 | 0 |
| 10 | 16QAM | 50 | 0 | | 16.33 | | | |
| | Cha | nnel | | 23205 | 23230 | 23255 | Tune-up limit | MPR |
| | Frequenc | cy (MHz) | | 779.5 | 782 | 784.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 17.25 | 17.15 | 17.37 | | |
| 5 | QPSK | 1 | 12 | 17.23 | 17.43 | 17.41 | 18 | 0 |
| 5 | QPSK | 1 | 24 | 17.39 | 17.37 | 17.12 | | |
| 5 | QPSK | 12 | 0 | 17.23 | 17.23 | 17.46 | | |
| 5 | QPSK | 12 | 7 | 17.12 | 17.45 | 17.39 | 18 | 0 |
| 5 | QPSK | 12 | 13 | 17.22 | 17.42 | 17.40 | 18 | 0 |
| 5 | QPSK | 25 | 0 | 17.19 | 17.38 | 17.26 | | |
| 5 | 16QAM | 1 | 0 | 17.16 | 17.09 | 17.25 | | |
| 5 | 16QAM | 1 | 12 | 17.10 | 17.28 | 17.29 | 18 | 0 |
| 5 | 16QAM | 1 | 24 | 17.34 | 17.34 | 17.13 | | |
| 5 | 16QAM | 12 | 0 | 17.33 | 17.26 | 17.43 | | |
| 5 | 16QAM | 12 | 7 | 17.33 | 17.46 | 17.47 | 40 | 0 |
| 5 | 16QAM | 12 | 13 | 17.50 | 17.41 | 17.29 | 18 | 0 |
| 5 | 16QAM | 25 | 0 | 17.25 | 17.34 | 17.27 | | |

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<LTE Band 17>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low
Ch. / Freq. | Power
Middle
Ch. / Freq. | Power
High
Ch. / Freq. | Tune-up limit | MPR |
|----------|------------|----------|-----------|-----------------------------|--------------------------------|------------------------------|---------------|------|
| | Cha | nnel | | 23780 | 23790 | 23800 | (dBm) | (dB) |
| | Frequenc | cy (MHz) | | 709 | 710 | 711 | 1 | |
| 10 | QPSK | 1 | 0 | 14.12 | 14.20 | 14.16 | | |
| 10 | QPSK | 1 | 24 | 14.84 | 14.90 | 14.62 | 15.5 | 0 |
| 10 | QPSK | 1 | 49 | 14.22 | 14.37 | 14.02 | | |
| 10 | QPSK | 25 | 0 | 14.35 | 14.52 | 14.60 | | |
| 10 | QPSK | 25 | 12 | 14.69 | 14.72 | 14.68 | 15.5 | 0 |
| 10 | QPSK | 25 | 25 | 14.68 | 14.56 | 14.20 | 15.5 | 0 |
| 10 | QPSK | 50 | 0 | 14.45 | 14.61 | 14.46 | | |
| 10 | 16QAM | 1 | 0 | 14.57 | 14.80 | 14.77 | | |
| 10 | 16QAM | 1 | 25 | 15.32 | 15.35 | 15.09 | 15.5 | 0 |
| 10 | 16QAM | 1 | 49 | 14.64 | 14.84 | 14.46 | | |
| 10 | 16QAM | 25 | 0 | 14.36 | 14.52 | 14.57 | | |
| 10 | 16QAM | 25 | 12 | 14.66 | 14.66 | 14.63 | 1 455 | |
| 10 | 16QAM | 25 | 25 | 14.62 | 14.43 | 14.06 | 15.5 | 0 |
| 10 | 16QAM | 50 | 0 | 14.46 | 14.63 | 14.48 | | |
| | Cha | nnel | | 23755 | 23790 | 23825 | Tune-up limit | MPR |
| | Frequenc | cy (MHz) | | 706.5 | 710 | 713.5 | (dBm) | (dB) |
| 5 | QPSK | 1 | 0 | 13.89 | 14.48 | 14.45 | | |
| 5 | QPSK | 1 | 12 | 13.92 | 14.74 | 14.21 | 15.5 | 0 |
| 5 | QPSK | 1 | 24 | 14.42 | 14.26 | 13.74 | | |
| 5 | QPSK | 12 | 0 | 14.03 | 14.75 | 14.32 | | |
| 5 | QPSK | 12 | 7 | 14.10 | 14.83 | 14.21 | 15.5 | 0 |
| 5 | QPSK | 12 | 13 | 14.39 | 14.57 | 14.08 | 15.5 | 0 |
| 5 | QPSK | 25 | 0 | 14.18 | 14.60 | 14.11 | | |
| 5 | 16QAM | 1 | 0 | 14.46 | 14.87 | 14.78 | | |
| 5 | 16QAM | 1 | 12 | 14.42 | 15.12 | 14.62 | 15.5 | 0 |
| 5 | 16QAM | 1 | 24 | 14.89 | 14.74 | 14.19 | | |
| 5 | 16QAM | 12 | 0 | 14.02 | 14.67 | 14.49 | | |
| 5 | 16QAM | 12 | 7 | 14.10 | 14.65 | 14.22 | 45.5 | 0 |
| 5 | 16QAM | 12 | 13 | 14.36 | 14.59 | 14.25 | 15.5 | 0 |
| 5 | 16QAM | 25 | 0 | 14.30 | 14.63 | 14.29 | | |

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<LTE Band 25>

| BW [MHz] | Modulation | RB Size | RB Offset | Power
Low | Power
Middle | Power
High | | |
|--------------|------------|-----------|------------|--------------|-----------------|---------------|---------------|----------|
| [<u>-</u>] | | . 12 0.20 | 112 011001 | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Tune-up limit | MPR |
| | Cha | nnel | | 26140 | 26340 | 26590 | (dBm) | (dB) |
| | Frequenc | cy (MHz) | | 1860 | 1880 | 1905 | | |
| 20 | QPSK | 1 | 0 | 13.36 | 12.93 | 13.41 | | |
| 20 | QPSK | 1 | 49 | 14.04 | 13.46 | 12.92 | 14.5 | 0 |
| 20 | QPSK | 1 | 99 | 12.67 | 14.23 | 14.08 | | |
| 20 | QPSK | 50 | 0 | 13.68 | 13.37 | 13.15 | | |
| 20 | QPSK | 50 | 24 | 13.75 | 13.66 | 13.32 | 1 | • |
| 20 | QPSK | 50 | 50 | 13.14 | 13.72 | 13.86 | 14.5 | 0 |
| 20 | QPSK | 100 | 0 | 13.25 | 13.70 | 13.60 | | |
| 20 | 16QAM | 1 | 0 | 13.83 | 12.98 | 13.71 | | |
| 20 | 16QAM | 1 | 49 | 13.91 | 13.48 | 13.11 | 14.5 | 0 |
| 20 | 16QAM | 1 | 99 | 12.71 | 14.38 | 14.06 | 1 | |
| 20 | 16QAM | 50 | 0 | 13.47 | 13.10 | 13.11 | | |
| 20 | 16QAM | 50 | 24 | 13.47 | 13.20 | 13.06 | † <u>.</u> | |
| 20 | 16QAM | 50 | 50 | 12.70 | 13.76 | 13.61 | 14.5 | 0 |
| 20 | 16QAM | 100 | 0 | 13.03 | 13.71 | 13.09 | 1 | |
| | Cha | nnel | | 26115 | 26340 | 26615 | Tune-up limit | MPR |
| | Frequenc | | | 1857.5 | 1880 | 1907.5 | (dBm) | (dB) |
| 15 | QPSK | 1 | 0 | 13.32 | 12.75 | 12.51 | | <u> </u> |
| 15 | QPSK | 1 | 37 | 13.71 | 13.32 | 13.10 | 14.5 | 0 |
| 15 | QPSK | 1 | 74 | 12.65 | 13.89 | 13.99 | 1 | |
| 15 | QPSK | 36 | 0 | 13.62 | 13.01 | 12.84 | | |
| 15 | QPSK | 36 | 20 | 13.51 | 13.50 | 13.41 | 1 | |
| 15 | QPSK | 36 | 39 | 13.51 | 13.77 | 14.12 | 14.5 | 0 |
| 15 | QPSK | 75 | 0 | 13.39 | 13.63 | 13.29 | 1 | |
| 15 | 16QAM | 1 | 0 | 13.61 | 12.92 | 12.89 | | |
| 15 | 16QAM | 1 | 37 | 13.87 | 13.53 | 13.33 | 14.5 | 0 |
| 15 | 16QAM | 1 | 74 | 12.99 | 14.20 | 14.02 | 1 | ŭ |
| 15 | 16QAM | 36 | 0 | 13.39 | 13.00 | 12.76 | | |
| 15 | 16QAM | 36 | 20 | 13.40 | 13.14 | 13.36 | - | |
| 15 | 16QAM | 36 | 39 | 13.27 | 13.66 | 13.76 | 14.5 | 0 |
| 15 | 16QAM | 75 | 0 | 13.36 | 13.36 | 13.54 | - | |
| 10 | Cha | | | 26090 | 26340 | 26640 | Tune-up limit | MPR |
| | Frequenc | | | 1855 | 1880 | 1910 | (dBm) | (dB) |
| 10 | QPSK | 1 | 0 | 13.45 | 13.07 | 13.11 | | |
| 10 | QPSK | 1 | 24 | 13.66 | 13.45 | 13.58 | 14.5 | 0 |
| 10 | QPSK | 1 | 49 | 13.88 | 14.08 | 13.74 | | Ü |
| 10 | QPSK | 25 | 0 | 13.46 | 13.23 | 13.14 | | |
| 10 | QPSK | 25 | 12 | 13.68 | 13.50 | 13.69 | 1 | |
| 10 | QPSK | 25 | 25 | 13.73 | 13.78 | 14.10 | 14.5 | 0 |
| 10 | QPSK | 50 | 0 | 13.73 | 13.73 | 13.77 | | |
| 10 | 16QAM | 1 | 0 | 13.85 | 13.73 | 13.19 | | |
| 10 | 16QAM | 1 | 25 | 13.70 | 13.47 | 13.75 | 14.5 | 0 |
| 10 | 16QAM | 1 | 49 | 13.70 | 13.47 | 13.75 | 14.5 | U |
| 10 | 16QAM | 25 | 0 | 13.40 | 13.37 | 13.13 | | |
| 10 | | | | | | | - | |
| | 16QAM | 25 | 12 | 13.61 | 13.28 | 13.38 | 14.5 | 0 |
| 10 | 16QAM | 25 | 25 | 13.54 | 13.49 | 13.85 | | |

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| MPR | Tune-up limit | 26665 | 26340 | 26065 | | nnel | Char | |
|------|---------------|--------|-------|--------|----|------|----------|-----|
| (dB) | (dBm) | 1912.5 | 1880 | 1852.5 | | | Frequenc | |
| | | 13.65 | 12.93 | 13.08 | 0 | 1 | QPSK | 5 |
| 0 | 14.5 | 14.49 | 13.45 | 13.46 | 12 | 1 | QPSK | 5 |
| Ū | - 14.0 | 13.35 | 13.61 | 13.78 | 24 | 1 | QPSK | 5 |
| | | 14.30 | 13.35 | 13.29 | 0 | 12 | QPSK | 5 |
| | | 14.43 | 13.67 | 13.68 | 7 | 12 | QPSK | 5 |
| 0 | 14.5 | 14.10 | 13.56 | 13.81 | 13 | 12 | QPSK | 5 |
| | | 14.18 | 13.50 | 13.25 | 0 | 25 | QPSK | 5 |
| | | 13.82 | 13.39 | 13.67 | 0 | 1 | 16QAM | 5 |
| 0 | 14.5 | 14.37 | 13.52 | 13.89 | 12 | 1 | 16QAM | 5 |
| O | 14.5 | 13.47 | 13.58 | 13.72 | 24 | 1 | 16QAM | 5 |
| | | 13.96 | 13.06 | 13.26 | 0 | 12 | 16QAM | 5 |
| | - | 13.99 | 13.28 | 13.51 | 7 | 12 | 16QAM | 5 |
| 0 | 14.5 | 13.85 | 13.39 | 13.66 | 13 | 12 | 16QAM | 5 |
| | - | 13.81 | 13.21 | 13.45 | 0 | 25 | 16QAM | 5 |
| MPR | Tune-up limit | 26675 | 26340 | 26055 | 0 | | Char | • |
| (dB) | (dBm) | 1913.5 | 1880 | 1851.5 | | | Frequenc | |
| (- / | () | 14.44 | 13.34 | 12.99 | 0 | 1 | QPSK | 3 |
| 0 | 14.5 | 14.33 | 13.62 | 13.31 | 8 | 1 | QPSK | 3 |
| ŭ | 1 | 13.46 | 13.62 | 13.11 | 14 | 1 | QPSK | 3 |
| | | 14.50 | 13.41 | 13.24 | 0 | 8 | QPSK | 3 |
| | | 14.32 | 13.47 | 13.15 | 4 | 8 | QPSK | 3 |
| 0 | 14.5 | 13.88 | 13.46 | 13.19 | 7 | 8 | QPSK | 3 |
| | | 14.18 | 13.49 | 13.31 | 0 | 15 | QPSK | 3 |
| | | 14.35 | 13.29 | 13.52 | 0 | 1 | 16QAM | 3 |
| 0 | 14.5 | 14.27 | 13.55 | 13.73 | 8 | 1 | 16QAM | 3 |
| | 1 | 13.36 | 13.61 | 13.62 | 14 | 1 | 16QAM | 3 |
| | | 14.28 | 13.20 | 13.24 | 0 | 8 | 16QAM | 3 |
| | - | 14.12 | 13.34 | 13.24 | 4 | 8 | 16QAM | 3 |
| 0 | 14.5 | 13.71 | 13.32 | 13.51 | 7 | 8 | 16QAM | 3 |
| | - | 13.89 | 13.15 | 13.29 | 0 | 15 | 16QAM | 3 |
| MPR | Tune-up limit | 26683 | 26340 | 26047 | | | Char | |
| (dB) | (dBm) | 1914.3 | 1880 | 1850.7 | | | Frequenc | |
| | | 14.02 | 13.41 | 12.93 | 0 | 1 | QPSK | 1.4 |
| | | 13.76 | 13.54 | 13.27 | 3 | 1 | QPSK | 1.4 |
| | | 13.48 | 13.40 | 13.01 | 5 | 1 | QPSK | 1.4 |
| 0 | 14.5 | 13.98 | 13.53 | 13.17 | 0 | 3 | QPSK | 1.4 |
| | | 13.87 | 13.49 | 13.28 | 1 | 3 | QPSK | 1.4 |
| | | 13.74 | 13.44 | 13.38 | 3 | 3 | QPSK | 1.4 |
| 0 | 14.5 | 13.87 | 13.37 | 13.31 | 0 | 6 | QPSK | 1.4 |
| | | 14.22 | 13.50 | 13.56 | 0 | 1 | 16QAM | 1.4 |
| | | 14.03 | 13.61 | 13.63 | 3 | 1 | 16QAM | 1.4 |
| | | 13.79 | 13.54 | 13.52 | 5 | 1 | 16QAM | 1.4 |
| 0 | 14.5 | 14.00 | 13.16 | 13.30 | 0 | 3 | 16QAM | 1.4 |
| | | 13.84 | 13.34 | 13.22 | 1 | 3 | 16QAM | 1.4 |
| | - | 13.76 | 13.27 | 13.38 | 3 | 3 | 16QAM | 1.4 |
| | 14.5 | 13.93 | 13.15 | 13.39 | 0 | 6 | 16QAM | 1.4 |

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13. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 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
 - \cdot ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.

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13.1 Body SAR

<GSM SAR>

| Plot
No. | Band | Mode | Test
Position | Gap
(mm) | Proximity
Sensor | Ch. | Freq.
(MHz) | Average
Power
(dBm) | Tune-Up
Limit
(dBm) | Tune-up
Scaling
Factor | | Measured
1g SAR
(W/kg) | Reported
1g SAR
(W/kg) |
|-------------|---------|-------------------|------------------|-------------|---------------------|-----|----------------|---------------------------|---------------------------|------------------------------|-------|------------------------------|------------------------------|
| 01 | GSM850 | GPRS (2 Tx slots) | Back | 12mm | Inactive | 128 | 824.2 | 31.95 | 33.00 | 1.274 | 0.03 | 0.624 | 0.795 |
| 02 | GSM1900 | GPRS (2 Tx slots) | Тор | 0mm | active | 810 | 1909.8 | 21.80 | 22.00 | 1.047 | -0.11 | 0.559 | 0.585 |

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<WCDMA SAR>

| Plot
No. | Band | Mode | Test
Position | Gap
(mm) | Proximity
Sensor | Ch. | Freq.
(MHz) | Average
Power
(dBm) | Tune-Up
Limit
(dBm) | Tune-up
Scaling
Factor | Power
Drift
(dB) | Measured
1g SAR
(W/kg) | Reported
1g SAR
(W/kg) |
|-------------|----------|--------------|------------------|-------------|---------------------|------|----------------|---------------------------|---------------------------|------------------------------|------------------------|------------------------------|------------------------------|
| 03 | WCDMA II | RMC 12.2kbps | Back | 0mm | active | 9400 | 1880 | 14.93 | 16.00 | 1.279 | -0.08 | 0.550 | 0.704 |
| | WCDMA IV | RMC 12.2Kbps | Back | 12mm | Inactive | 1513 | 1752.6 | 22.94 | 24.00 | 1.276 | 0.01 | 0.636 | 0.812 |
| | WCDMA IV | RMC 12.2Kbps | Back | 12mm | Inactive | 1312 | 1712.4 | 22.94 | 24.00 | 1.276 | -0.07 | 0.671 | 0.856 |
| 04 | WCDMA IV | RMC 12.2Kbps | Back | 12mm | Inactive | 1413 | 1732.6 | 22.96 | 24.00 | 1.271 | 0.01 | 0.676 | 0.859 |
| 05 | WCDMA V | RMC 12.2Kbps | Back | 0mm | active | 4132 | 826.4 | 16.69 | 18.00 | 1.352 | -0.18 | 0.584 | 0.790 |

<CDMA SAR>

| Plot
No. | Band | Mode | Test
Position | Gap
(mm) | Proximity
Sensor | Ch. | Freq.
(MHz) | Average
Power
(dBm) | Tune-Up
Limit
(dBm) | Tune-up
Scaling
Factor | Power
Drift
(dB) | Measured
1g SAR
(W/kg) | Reported
1g SAR
(W/kg) |
|-------------|-----------|----------------|------------------|-------------|---------------------|------|----------------|---------------------------|---------------------------|------------------------------|------------------------|------------------------------|------------------------------|
| 06 | CDMA BC0 | RTAP 153.6Kbps | Back | 12mm | Inactive | 384 | 836.52 | 23.79 | 24.50 | 1.178 | -0.1 | 0.535 | 0.630 |
| 07 | CDMA BC1 | RTAP153.6Kbps | Back | 12mm | Inactive | 600 | 1880 | 23.91 | 24.50 | 1.146 | 0 | 0.735 | 0.842 |
| | CDMA BC1 | RTAP153.6Kbps | Back | 12mm | Inactive | 25 | 1851.25 | 23.72 | 24.50 | 1.197 | -0.01 | 0.669 | 0.801 |
| | CDMA BC1 | RTAP153.6Kbps | Back | 12mm | Inactive | 1175 | 1908.75 | 24.01 | 24.50 | 1.119 | -0.06 | 0.739 | 0.827 |
| 08 | CDMA BC10 | RTAP 153.6Kbps | Back | 0mm | active | 684 | 823.1 | 17.09 | 17.50 | 1.099 | -0.16 | 0.659 | 0.724 |

<LTE SAR>

| Plot
No. | Band | BW
(MHz) | Modulation | RB
Size | RB
offset | Test
Position | Gap
(mm) | Proximity
Sensor | Ch. | Freq.
(MHz) | Average
Power
(dBm) | Tune-Up
Limit
(dBm) | Tune-up
Scaling
Factor | Power
Drift
(dB) | Measured
1g SAR
(W/kg) | Reported
1g SAR
(W/kg) |
|-------------|-------------|-------------|------------|------------|--------------|------------------|-------------|---------------------|-------|----------------|---------------------------|---------------------------|------------------------------|------------------------|------------------------------|------------------------------|
| 09 | LTE Band 2 | 20M | QPSK | 1 | 0 | Тор | 0mm | active | 19100 | 1900 | 14.39 | 15.00 | 1.151 | -0.09 | 0.475 | 0.547 |
| 10 | LTE Band 4 | 20M | QPSK | 1 | 99 | Back | 12mm | Inactive | 20175 | 1732.5 | 23.38 | 24.00 | 1.153 | 0.03 | 0.672 | 0.775 |
| 11 | LTE Band 5 | 10M | QPSK | 25 | 12 | Back | 0mm | active | 20600 | 844 | 16.05 | 17.00 | 1.245 | -0.11 | 0.422 | 0.525 |
| 12 | LTE Band 13 | 10M | QPSK | 1 | 24 | Back | 12mm | Inactive | 23230 | 782 | 23.24 | 24.00 | 1.191 | -0.02 | 0.451 | 0.537 |
| 13 | LTE Band 17 | 10M | QPSK | 1 | 24 | Back | 12mm | Inactive | 23780 | 709 | 22.65 | 24.00 | 1.365 | -0.1 | 0.333 | 0.454 |
| 14 | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 12mm | Inactive | 26365 | 1882.5 | 22.98 | 24.00 | 1.265 | 0.16 | 0.597 | 0.755 |

<WLAN SAR>

| Plot
No. | Band | Mode | Test
Position | Gap
(mm) | Antenna | Ch. | | | Tune-Up
Limit
(dBm) | Tune-up
Scaling
Factor | Duty
Cycle
% | Duty
Cycle
Scaling
Factor | Power
Drift
(dB) | Measured
1g SAR
(W/kg) | Reported
1g SAR
(W/kg) |
|-------------|----------|---------------|------------------|-------------|---------|-----|------|-------|---------------------------|------------------------------|--------------------|------------------------------------|------------------------|------------------------------|------------------------------|
| 15 | WLAN5GHz | 802.11a 6Mbps | Back | 0mm | Ant 1 | 36 | 5180 | 12.80 | 13.00 | 1.047 | 97.4 | 1.027 | -0.19 | 0.660 | 0.710 |
| 16 | WLAN5GHz | 802.11a 6Mbps | Back | 0mm | Ant 2 | 48 | 5240 | 12.70 | 13.00 | 1.072 | 100 | 1.000 | 0.03 | 0.284 | 0.304 |

Note:

In the above table, the WLAN SAR test is in order to evaluate for simultaneous transmission and SPLSR analysis, and the WLAN conducted power can refer to original report ,Report number: UL-SAR-RP10710967JD01A V1.0 (FCC ID: 2ABVH-EM7355).

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14. Simultaneous Transmission Analysis

| NO. | Simultanacua Transmissian Configurations | Tablet |
|-----|--|--------|
| NO. | Simultaneous Transmission Configurations | Body |
| 1. | WWAN + WLAN Ant 1 + WLAN Ant 2 | Yes |
| 2. | WWAN + Bluetooth Ant 1 | Yes |

General Note:

1. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.

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- 2. The Scaled SAR summation is calculated based on the same configuration and test position.
- 3. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - v) The SPLSR calculated results please refer to section 14.2.



14.1 Body Exposure Conditions

| | | | 1 | 2 | 4 | 5 | 6 | | | | | |
|-------|-------------|----------------------|------------------|---------------------------|-----------------------|-----------------------|--------------------|-------------------------|---------------------------|-------------------------|--------|---------|
| WWA | AN Band | Exposure
Position | WWAN | 2.4GHz
WLAN
Ant 1+2 | 5GHz
WLAN
Ant 1 | 5GHz
WLAN
Ant 2 | Bluetooth
Ant 1 | 1+2
Summed
1g SAR | 1+4+5
Summed
1g SAR | 1+6
Summed
1g SAR | SPLSR | Case No |
| | | | 1g SAR
(W/kg) | 1g SAR
(W/kg) | 1g SAR
(W/kg) | 1g SAR
(W/kg) | 1g SAR
(W/kg) | (W/kg) | (W/kg) | (W/kg) | | |
| GSM | GSM850 | Back at 12mm | 0.795 | 0.498 | 0.710 | 0.304 | 0.067 | 1.293 | 1.809 | 0.862 | 0.01 | Case 1 |
| GSIVI | GSM1900 | Top at 0mm | 0.585 | | 0.273 | | | 0.585 | 0.858 | 0.585 | | |
| | WCDMA II | Back at 0mm | 0.704 | 0.498 | 0.710 | 0.304 | 0.067 | 1.202 | 1.718 | 0.771 | < 0.01 | Case 2 |
| WCDMA | WCDMA IV | Back at 12mm | 0.859 | 0.498 | 0.710 | 0.304 | 0.067 | 1.357 | 1.873 | 0.926 | < 0.01 | Case 3 |
| | WCDMA V | Back at 0mm | 0.790 | 0.498 | 0.710 | 0.304 | 0.067 | 1.288 | 1.804 | 0.857 | < 0.01 | Case 4 |
| | CDMA BC0 | Back at 12mm | 0.630 | 0.498 | 0.710 | 0.304 | 0.067 | 1.128 | 1.644 | 0.697 | < 0.01 | Case 5 |
| CDMA | CDMA BC1 | Back at 12mm | 0.842 | 0.498 | 0.710 | 0.304 | 0.067 | 1.340 | 1.856 | 0.909 | < 0.01 | Case 6 |
| | CDMA BC10 | Back at 0mm | 0.724 | 0.498 | 0.710 | 0.304 | 0.067 | 1.222 | 1.738 | 0.791 | < 0.01 | Case 7 |
| | LTE Band 2 | Top at 0mm | 0.547 | | 0.273 | | | 0.547 | 0.820 | 0.547 | | |
| | LTE Band 4 | Back at 12mm | 0.775 | 0.498 | 0.710 | 0.304 | 0.067 | 1.273 | 1.789 | 0.842 | < 0.01 | Case 8 |
| LTE | LTE Band 5 | Back at 0mm | 0.525 | 0.498 | 0.710 | 0.304 | 0.067 | 1.023 | 1.539 | 0.592 | | |
| LIE | LTE Band 13 | Back at 12mm | 0.537 | 0.498 | 0.710 | 0.304 | 0.067 | 1.035 | 1.551 | 0.604 | | |
| | LTE Band 17 | Back at 12mm | 0.454 | 0.498 | 0.710 | 0.304 | 0.067 | 0.952 | 1.468 | 0.521 | | |
| | LTE Band 25 | Back at 12mm | 0.755 | 0.498 | 0.710 | 0.304 | 0.067 | 1.253 | 1.769 | 0.822 | < 0.01 | Case 9 |

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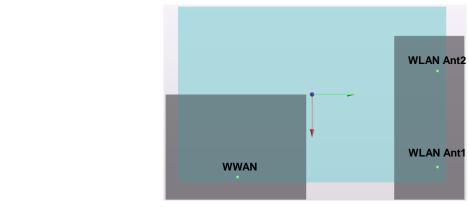
14.2 SPLSR Evaluation and Analysis

General Note:

SPLSR = (SAR₁ + SAR₂)^{1.5} / (min. separation distance, mm). If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary

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| | Band | Position | SAR | Gap | SAR p | eak location | n (m) | 3D
distance | Summed
SAR | SPLSR | Simultaneous |
|--------|------------|----------|--------|------|-------|--------------|-------|----------------|---------------|---------|--------------|
| | Dano | Position | (W/kg) | (cm) | Х | Υ | Z | (mm) | (W/kg) | Results | SAR |
| | GSM850 | Back | 0.795 | 12mm | 69.5 | -62.5 | 0.7 | 155.4 | 1.51 | 0.01 | Not required |
| Case 1 | 5GHz Ant 1 | Dack | 0.71 | 0mm | 53 | 92 | -0.64 | 155.4 | 1.51 | 0.01 | Not required |
| Case I | GSM850 | Pook | 0.795 | 12mm | 69.5 | -62.5 | 0.7 | 102 5 | 193.5 1.10 | 0.01 | Not required |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 193.5 | | 0.01 | Not required |
| | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 77.9 | 1.01 | 0.01 | Not required |
| | 5GHz Ant 2 | Dack | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 77.9 | 1.01 | 0.01 | Not required |
| | | | | | | _ | | | | • | _ |
| | | | | | | | | | | | |



| | David | Docition | SAR | Gap | SAR p | eak location | n (m) | 3D | Summed | SPLSR | Simultaneous |
|--------|------------|----------|--------|------|-------|--------------|-------|------------------|---------------|---------|--------------|
| | Band | Position | (W/kg) | (cm) | Х | Υ | z | distance
(mm) | SAR
(W/kg) | Results | SAR |
| | WCDMA II | Back | 0.704 | 0mm | 73.9 | -57.6 | 2.22 | 1510.8 | 1.41 | 0.00 | Not required |
| Case 2 | 5GHz Ant 1 | Dack | 0.71 | 0mm | 53 | 92 | -0.64 | 1510.6 | 1.41 | 0.00 | Not required |
| Case 2 | WCDMA II | Back | 0.704 | 0mm | 73.9 | -57.6 | 2.22 | 1914.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | Dack | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1914.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 779.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | Баск | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |
| | | | | | | | | WLAN An | t2 | | |
| | | | | WWAI | N | • | ı | WLAN An | nt1 | | |

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| | Band | Position | SAR | Gap | SAR p | eak locatio | n (m) | 3D | Summed
SAR | SPLSR | Simultaneous |
|--------|------------|----------|--------|------|-------|---------------|-------|------------------|---------------|---------|--------------|
| | Dano | Position | (W/kg) | (cm) | Х | Y | Z | distance
(mm) | (W/kg) | Results | SAR |
| | WCDMA IV | Back | 0.859 | 12mm | 69 | -71.6 | -2.5 | 1642.0 | 4.57 | 0.00 | Not required |
| Case 3 | 5GHz Ant 1 | Dack | 0.71 | 0mm | 53 | 92 | -0.64 | 1643.9 | 1.57 | 0.00 | Not required |
| Case 3 | WCDMA IV | Back | 0.859 | 12mm | 69 | -71.6 | -2.5 | 2012.7 | 1.16 | 0.00 | Not required |
| | 5GHz Ant 2 | Dack | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 2012.7 | 1.10 | 0.00 | Not required |
| | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 779.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | Dack | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |
| | | | | | | • | Ī | WLAN An | nt2 | | |
| | | | | WWAN | | • | ı | WLAN An | nt1 | | |

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| | Don't | Besiden | SAR | Gap | SAR p | eak locatio | n (m) | 3D | Summed | SPLSR | Simultaneous |
|--------|------------|----------|--------|------|-------|-------------|-------|------------------|---------------|---------|-----------------|
| | Band | Position | (W/kg) | (cm) | Х | Y | Z | distance
(mm) | SAR
(W/kg) | Results | SAR |
| | WCDMA V | Deal | 0.79 | 0mm | 65.1 | -53.5 | 1.9 | 4.400.0 | 4.50 | 0.00 | Not as accional |
| 0 4 | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 1460.2 | 1.50 | 0.00 | Not required |
| Case 4 | WCDMA V | Deal | 0.79 | 0mm | 65.1 | -53.5 | 1.9 | 40047 | 4.00 | 0.00 | Not as audios d |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1834.7 | 1.09 | 0.00 | Not required |
| | 5GHz Ant 1 | Deal | 0.71 | 0mm | 53 | 92 | -0.64 | 770.0 | 4.04 | 0.00 | Net as assissed |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |
| | | | | | | · | ı | WLAN An | ıt2 | | |
| | | | | ww | | • | | WLAN Ar | ıt1 | | |

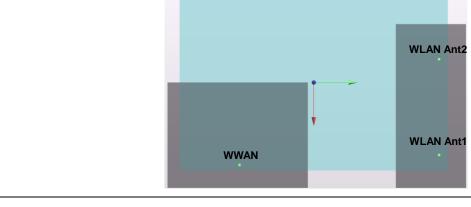
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| | Band | Position | SAR | Gap | SAR p | eak locatio | n (m) | 3D
distance | Summed
SAR | SPLSR | Simultaneous | |
|--------|------------|----------|--------|------|-------|-------------|-------|----------------|---------------|---------|------------------|--|
| | Dallu | Position | (W/kg) | (cm) | Х | Υ | Z | (mm) | (W/kg) | Results | SAR | |
| | CDMA BC0 | Back | 0.63 | 12mm | 69.5 | -59.3 | 0.65 | 1522.0 | 1.34 | 0.00 | Not required | |
| Case 5 | 5GHz Ant 1 | Баск | 0.71 | 0mm | 53 | 92 | -0.64 | 1522.0 | 1.34 | 0.00 | Not required | |
| Case 5 | CDMA BC0 | DI- | 0.63 | 12mm | 69.5 | -59.3 | 0.65 | 1906.7 0.93 | | 0.00 | Not as assiss at | |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1906.7 | 0.93 | 0.00 | Not required | |
| | 5GHz Ant 1 | nt 1 | 0.71 | 0mm | 53 | 92 | -0.64 | 770.0 | 1.01 | 0.00 | Not required | |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | WLAN An | t2 | | | |

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| | David | Decition | SAR | Gap | SAR p | eak location | n (m) | 3D | Summed | SPLSR | Simultaneous |
|--------|------------|----------|--------|------|-------|--------------|-------|------------------|---------------|---------|--------------|
| | Band | Position | (W/kg) | (cm) | Х | Y | Z | distance
(mm) | SAR
(W/kg) | Results | SAR |
| | CDMA BC1 | Dools | 0.842 | 12mm | 72.2 | -63.8 | 1.07 | 1500.0 | 4.55 | 0.00 | Not required |
| 0 | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 1569.9 | 1.55 | 0.00 | Not required |
| Case 6 | CDMA BC1 | Dools | 0.842 | 12mm | 72.2 | -63.8 | 1.07 | 1050.1 | 1.15 | 0.00 | Not required |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1959.1 | 1.15 | 0.00 | Not required |
| | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 770.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | васк | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |
| | | | | | | <u> </u> | ı | WLAN An | t2 | | |
| | | | | AWW | N | • | | WLAN An | it1 | | |

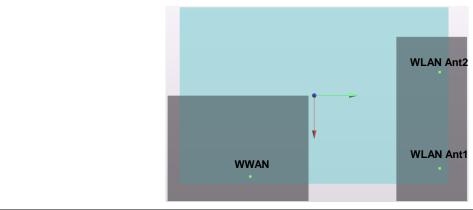
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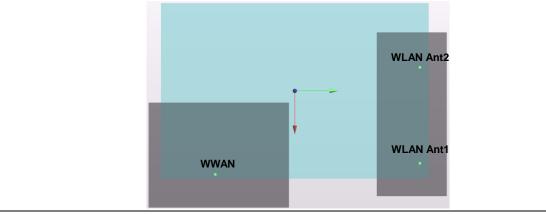


| | | Position | SAR | Gap | SAR p | eak location | n (m) | 3D | Summed | SPLSR | Simultaneous |
|--------|------------|----------|--------|------|-------|--------------|-------|------------------|---------------|---------|--------------|
| | Band | Position | (W/kg) | (cm) | х | Y | Z | distance
(mm) | SAR
(W/kg) | Results | SAR |
| | CDMA BC10 | Back | 0.724 | 0mm | 68 | -53.5 | 2.07 | 1463.0 | 1.43 | 0.00 | Not required |
| Case 7 | 5GHz Ant 1 | Баск | 0.71 | 0mm | 53 | 92 | -0.64 | 1463.0 | 1.43 | 0.00 | Not required |
| Case I | CDMA BC10 | Back | 0.724 | 0mm | 68 | -53.5 | 2.07 | 1848.9 | 1.03 | 0.00 | Not required |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1040.9 | 1.05 | 0.00 | Not required |
| | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 779.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | Dack | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |

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| | Band | Position | SAR Gap SAR peak location (m) 3D distan | | - | Summed
SAR | SPLSR | Simultaneous | | | |
|--------|------------|----------|---|------|-------|---------------|-------|--------------|--------|---------|--------------|
| | Dallu | FOSITION | (W/kg) | (cm) | Х | Y | Z | (mm) | (W/kg) | Results | SAR |
| | LTE Band 4 | Back | 0.775 | 12mm | 72.1 | -67 | 1.07 | 1601.5 | 1.49 | 0.00 | Not required |
| Case 8 | 5GHz Ant 1 | Dack | 0.71 | 0mm | 53 | 92 | -0.64 | 1601.5 | 1.49 | 0.00 | Not required |
| Case o | LTE Band 4 | Back | 0.775 | 12mm | 72.1 | -67 | 1.07 | 1986.7 | 1.08 | 0.00 | Not required |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1900.7 | 1.00 | 0.00 | Not required |
| | 5GHz Ant 1 | Back | 0.71 | 0mm | 53 | 92 | -0.64 | 779.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |
| | • | | | | | | | | | | · |



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| | Band | Position | SAR | Gap | SAR p | eak location | n (m) | 3D | Summed
SAR | SPLSR | Simultaneous |
|--------|-------------|----------|--------|------|-------|--------------|-------|------------------|---------------|---------|--------------|
| | Dand | Position | (W/kg) | (cm) | Х | Υ | Z | distance
(mm) | (W/kg) | Results | SAR |
| | LTE Band 25 | Back | 0.755 | 12mm | 70.6 | -63.8 | 1.04 | 1568.0 | 1.47 | 0.00 | Not required |
| Case 9 | 5GHz Ant 1 | Баск | 0.71 | 0mm | 53 | 92 | -0.64 | 1568.0 | 1.47 | 0.00 | Not required |
| Case 9 | LTE Band 25 | Back | 0.755 | 12mm | 70.6 | -63.8 | 1.04 | 1951.4 | 1.06 | 0.00 | Not required |
| | 5GHz Ant 2 | Баск | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 1951.4 | 1.06 | 0.00 | Not required |
| | 5GHz Ant 1 | Pook | 0.71 | 0mm | 53 | 92 | -0.64 | 779.0 | 1.01 | 0.00 | Not required |
| | 5GHz Ant 2 | Back | 0.304 | 0mm | -23.4 | 107.2 | -0.41 | 779.0 | 1.01 | 0.00 | Not required |
| | | | | | | · | ı | WLAN An | at2 | | |
| | | | | www | | • | Į | WLAN Ar | nt1 | | |

Test Engineer: Nick Yu Tom Jiang and Kurt Liu

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15. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

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A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

| Uncertainty Distributions | Normal | Rectangular | Triangular | U-Shape |
|------------------------------------|--------------------|-------------|------------|---------|
| Multi-plying Factor ^(a) | 1/k ^(b) | 1/√3 | 1/√6 | 1/√2 |

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 15.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

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| Error Description | Uncertainty
Value
(±%) | Probability | Divisor | (Ci)
1g | (Ci)
10g | Standard
Uncertainty
(1g) (±%) | Standard
Uncertainty
(10g) (±%) | |
|-----------------------------------|------------------------------|-------------|---------|------------|-------------|--------------------------------------|---------------------------------------|--|
| Measurement System | | | | | | | | |
| Probe Calibration | 6.0 | N | 1 | 1 | 1 | 6.0 | 6.0 | |
| Axial Isotropy | 4.7 | R | 1.732 | 0.7 | 0.7 | 1.9 | 1.9 | |
| Hemispherical Isotropy | 9.6 | R | 1.732 | 0.7 | 0.7 | 3.9 | 3.9 | |
| Boundary Effects | 1.0 | R | 1.732 | 1 | 1 | 0.6 | 0.6 | |
| Linearity | 4.7 | R | 1.732 | 1 | 1 | 2.7 | 2.7 | |
| System Detection Limits | 1.0 | R | 1.732 | 1 | 1 | 0.6 | 0.6 | |
| Modulation Response | 3.2 | R | 1.732 | 1 | 1 | 1.8 | 1.8 | |
| Readout Electronics | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | |
| Response Time | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | |
| Integration Time | 2.6 | R | 1.732 | 1 | 1 | 1.5 | 1.5 | |
| RF Ambient Noise | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | |
| RF Ambient Reflections | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | |
| Probe Positioner | 0.4 | R | 1.732 | 1 | 1 | 0.2 | 0.2 | |
| Probe Positioning | 2.9 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | |
| Max. SAR Eval. | 2.0 | R | 1.732 | 1 | 1 | 1.2 | 1.2 | |
| Test Sample Related | | | | | | | | |
| Device Positioning | 3.0 | Ν | 1 | 1 | 1 | 3.0 | 3.0 | |
| Device Holder | 3.6 | N | 1 | 1 | 1 | 3.6 | 3.6 | |
| Power Drift | 5.0 | R | 1.732 | 1 | 1 | 2.9 | 2.9 | |
| Power Scaling | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty | 6.1 | R | 1.732 | 1 | 1 | 3.5 | 3.5 | |
| SAR correction | 0.0 | R | 1.732 | 1 | 0.84 | 0.0 | 0.0 | |
| Liquid Conductivity Repeatability | 0.2 | Ν | 1 | 0.78 | 0.71 | 0.1 | 0.1 | |
| Liquid Conductivity (target) | 5.0 | R | 1.732 | 0.78 | 0.71 | 2.3 | 2.0 | |
| Liquid Conductivity (mea.) | 2.5 | R | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 | |
| Temp. unc Conductivity | 3.4 | R | 1.732 | 0.78 | 0.71 | 1.5 | 1.4 | |
| Liquid Permittivity Repeatability | 0.15 | N | 1 | 0.23 | 0.26 | 0.0 | 0.0 | |
| Liquid Permittivity (target) | 5.0 | R | 1.732 | 0.23 | 0.26 | 0.7 | 0.8 | |
| Liquid Permittivity (mea.) | 2.5 | R | 1.732 | 0.23 | 0.26 | 0.3 | 0.4 | |
| Temp. unc Permittivity | 0.83 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 | |
| Combined Std. Uncertainty | | | | | 11.4% | 11.4% | | |
| Coverage Factor for 95 % | | | | | K=2 | K=2 | | |
| Expanded STD Uncertainty | | | | | 22.9% | 22.7% | | |

Table 15.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

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| Error Description | Uncertainty
Value
(±%) | Probability | Divisor | (Ci)
1g | (Ci)
10g | Standard
Uncertainty
(1g) (±%) | Standard
Uncertainty
(10g) (±%) |
|-----------------------------------|------------------------------|-------------|---------|------------|-------------|--------------------------------------|---------------------------------------|
| Measurement System | | | | | | | |
| Probe Calibration | 7.0 | N | 1 | 1 | 1 | 7.0 | 7.0 |
| Axial Isotropy | 4.7 | R | 1.732 | 0.7 | 0.7 | 1.9 | 1.9 |
| Hemispherical Isotropy | 9.6 | R | 1.732 | 0.7 | 0.7 | 3.9 | 3.9 |
| Boundary Effects | 2.0 | R | 1.732 | 1 | 1 | 1.2 | 1.2 |
| Linearity | 4.7 | R | 1.732 | 1 | 1 | 2.7 | 2.7 |
| System Detection Limits | 1.0 | R | 1.732 | 1 | 1 | 0.6 | 0.6 |
| Modulation Response | 3.2 | R | 1.732 | 1 | 1 | 1.8 | 1.8 |
| Readout Electronics | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 |
| Response Time | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 |
| Integration Time | 2.6 | R | 1.732 | 1 | 1 | 1.5 | 1.5 |
| RF Ambient Noise | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 |
| RF Ambient Reflections | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 |
| Probe Positioner | 0.4 | R | 1.732 | 1 | 1 | 0.2 | 0.2 |
| Probe Positioning | 6.7 | R | 1.732 | 1 | 1 | 3.9 | 3.9 |
| Max. SAR Eval. | 4.0 | R | 1.732 | 1 | 1 | 2.3 | 2.3 |
| Test Sample Related | | | | | | | |
| Device Positioning | 3.0 | N | 1 | 1 | 1 | 3.0 | 3.0 |
| Device Holder | 3.6 | N | 1 | 1 | 1 | 3.6 | 3.6 |
| Power Drift | 5.0 | R | 1.732 | 1 | 1 | 2.9 | 2.9 |
| Power Scaling | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 |
| Phantom and Setup | | | | | | | |
| Phantom Uncertainty | 6.6 | R | 1.732 | 1 | 1 | 3.8 | 3.8 |
| SAR correction | 0.0 | R | 1.732 | 1 | 0.84 | 0.0 | 0.0 |
| Liquid Conductivity Repeatability | 0.2 | N | 1 | 0.78 | 0.71 | 0.1 | 0.1 |
| Liquid Conductivity (target) | 5.0 | R | 1.732 | 0.78 | 0.71 | 2.3 | 2.0 |
| Liquid Conductivity (mea.) | 2.5 | R | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 |
| Temp. unc Conductivity | 3.4 | R | 1.732 | 0.78 | 0.71 | 1.5 | 1.4 |
| Liquid Permittivity Repeatability | 0.15 | N | 1 | 0.23 | 0.26 | 0.0 | 0.0 |
| Liquid Permittivity (target) | 5.0 | R | 1.732 | 0.23 | 0.26 | 0.7 | 0.8 |
| Liquid Permittivity (mea.) | 2.5 | R | 1.732 | 0.23 | 0.26 | 0.3 | 0.4 |
| Temp. unc Permittivity | 0.83 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 |
| Combined Std. Uncertainty | | | | | | 12.8% | 12.7% |
| Coverage Factor for 95 % | | | | | K=2 | K=2 | |
| Expanded STD Uncertainty | | | | | 25.5% | 25.4% | |

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Table 15.3. Uncertainty Budget for frequency range 3 GHz to 6 GHz

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16. References

[1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

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- [8] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
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- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.

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