

Hearing Aid Compatibility (HAC)

TEST REPORT

<For RF-Emission Measurement>

Applicant Name	Razer Inc.
Address of Applicant	201 3rd Street, Suite 900, San Francisco, CA 94103, USA
EUT Name	Smart Phone
Brand Name	RAZER
Marketing Name	RAZER PHONE
Model No.	RZ35-0215
FCC ID	RWO-RZ350215
Date of receive	Aug. 28, 2017
Date of Test(s)	Sep. 15, 2017~ Sep. 29, 2017
Date of Issue	Oct. 27, 2017

Standards:

ANSI C63.19-2011

FCC RULE PART(S): 47 CFR PART 20.19(B)**HAC CATEGORY: M4 (M Category)**

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS**Sr. Engineer****Matt Kuo****Date: Oct. 27, 2017****Supervisor****John Yeh****Date: Oct. 27, 2017**

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Revision History

Report Number	Revision	Description	Issue Date
E5/2017/10025	Rev.00	Initial creation of document	Oct. 05, 2017
E5/2017/10025	Rev.01	1 st modify comment	Oct. 27, 2017

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1. Introduction

The purpose of the Hearing Aid Compatibility is to enable measurements of the near electric fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2011

The purpose of this standard is to establish categories for hearing aids and for WD (wireless communications devices) that can indicate to health care practitioners and hearing aid users which hearing aids are compatible with which WD, and to provide tests that can be used to assess the electromagnetic characteristics of hearing aids and WD and assign them to these categories. The various parameters required, in order to demonstrate compatibility and accessibility are measured. The design of the standard is such that when a hearing aid and WD achieve one of the categories specified, as measured by the methodology of this standard, the indicated performance is realized.

In order to provide for the usability of a hearing aid with a WD, several factors must be coordinated:

a) Radio frequency (RF) measurements of the near-field electric fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing aid.

Hence, the following are measurements made for the WD:
RF E-Field emissions

The measurement plane is parallel to, and 1.5cm in front of, the reference plane.

Applications for certification of equipment operation under part 20, that a manufacturer is seeking to certify as hearing aid compatible, as set forth in §20.19 of that part, shall include a statement indicating compliance with the test requirements of §20.19 and indicating the appropriate U-rating for the equipment. The manufacturer of the equipment shall be responsible for maintaining the test results.

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2. Testing Laboratory

Company Name	SGS Taiwan Ltd. Electronics & Communication Laboratory
Company address	No.2, Keji 1st Rd., Guishan Township, Taoyuan County 333, Taiwan (R.O.C.)
Telephone	+886-2-2299-3279
Fax	+886-2-2298-0488
Website	http://www.tw.sgs.com/

3. Details of Applicant

Applicant Name	Razer Inc.
Applicant Address	201 3rd Street, Suite 900, San Francisco, CA 94103, USA

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4. Description of EUT

EUT Name	Smart Phone		
Marketing Name	RAZER PHONE		
Brand Name	RAZER		
Model No.	RZ35-0215		
FCC ID	RWO-RZ350215		
Mode of Operation	<input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> EDGE <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> LTE FDD <input checked="" type="checkbox"/> LTE TDD <input checked="" type="checkbox"/> Bluetooth <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n/ac(20M/40M/80M)		
Duty Cycle	GSM (DTM multi class B)	1/8.3	
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)	
	EDGE (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)	
	LTE FDD	1	
	LTE TDD	0.633	
	WCDMA	1	
	WLAN802.11a/b/g/n(20M/40M)/ ac(20M/40M/80M)	1	
	Bluetooth	1	
TX Frequency Range (MHz)	GSM850	824	— 849
	GSM1900	1850	— 1910
	WCDMA Band II	1850	— 1910
	WCDMA Band IV	1710	— 1755

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TX Frequency Range (MHz)	WCDMA Band V	824	—	849
	LTE FDD Band 2	1850	—	1910
	LTE FDD Band 4	1710	—	1755
	LTE FDD Band 5	824	—	849
	LTE FDD Band 7	2500	—	2570
	LTE FDD Band 12	699	—	716
	LTE FDD Band 17	704	—	716
	LTE FDD Band 25	1850	—	1915
	LTE FDD Band 26	814	—	849
	LTE FDD Band 30	2305	—	2315
	LTE TDD Band 38	2570		2620
	LTE TDD Band 41	2496	—	2690
	LTE FDD Band 66	1710	—	1780
	WLAN802.11 b/g/n(20M)	2412	—	2462
	WLAN802.11 n(40M)	2422	—	2462
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	—	5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	—	5230
	WLAN802.11 ac(80M) 5.2G	5210		
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	—	5320
	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	—	5310
	WLAN802.11 ac(80M) 5.3G	5290		
	WLAN802.11 a/n/ac(20M) 5.6G	5500	—	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	—	5710
	WLAN802.11 ac(80M) 5.6G	5530	—	5690
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	—	5825

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TX Frequency Range (MHz)	WLAN802.11 n(40M)/ac(40M) 5.8G	5710	—	5795
	WLAN802.11 ac(80M) 5.8G	5775		
	Bluetooth	2402	—	2480
Channel Number (ARFCN)	GSM850	128	—	251
	GSM1900	512	—	810
	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	LTE FDD Band 2	18607	—	19193
	LTE FDD Band 4	19957	—	20393
	LTE FDD Band 5	20407	—	20643
	LTE FDD Band 7	20775	—	21425
	LTE FDD Band 12	23017	—	23173
	LTE FDD Band 17	23755	—	23825
	LTE FDD Band 25	26047	—	26683
	LTE FDD Band 26	26697	—	27033
	LTE FDD Band 30	27685	—	27735
	LTE TDD Band 38	37775	—	38225
	LTE TDD Band 41	39675	—	41565
	LTE FDD Band 66	131979	—	132665
	WLAN802.11 b/g/n(20M)	1	—	13
	WLAN802.11 n(40M)	3	—	11
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	—	48
	WLAN802.11 n(40M)/ac(40M) 5.2G	38	—	46
	WLAN802.11 ac(80M) 5.2G	42		
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	—	64

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Channel Number (ARFCN)	WLAN802.11 n(40M)/ac(40M) 5.3G	54	—	62
	WLAN802.11 ac(80M) 5.3G	58		
	WLAN802.11 a/n/ac(20M) 5.6G	100	—	144
	WLAN802.11 n/ac(40M) 5.6G	102	—	142
	WLAN802.11 ac(80M) 5.6G	106	—	138
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	—	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	142	—	159
	WLAN802.11 ac(80M) 5.8G	155		
	Bluetooth	0	—	78

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5. Air Interfaces and Bands

Air- Interface	Band (MHZ)	Type Transport	C63.19 tested	Simultaneous Transmitter but not tested	Voice Over Digital Transport OTT capability	Power Reduction
GSM	850	VO	Yes	Yes, WiFi or Bluetooth	No	No
	1900				No	No
WCDMA	II	VO	Yes (Note 1.)	Yes, WiFi or Bluetooth	No	No
	IV				No	No
	V				No	No
LTE FDD	2	VD	Yes (Note 1.)	Yes, WiFi or Bluetooth	Yes	No
	4				Yes	No
	5				Yes	No
	7				Yes	No
	12				Yes	No
	17				Yes	No
	25				Yes	No
	26				Yes	No
	30				Yes	No
	66				Yes	No
LTE TDD	38	VD	Yes	Yes, WiFi or Bluetooth	Yes	No
	41				Yes	No
WiFi	2450	DT	No	Yes, WWAN or BT	Yes	No
WiFi	5000	DT	No	Yes, WWAN or BT	Yes	No
Bluetooth	2450	DT	No	Yes, WWAN or WiFi	No	No
VO= CMRS Voice Service DT= Digital Transport VD=CMRS IP Voice Service and Digital Transport				Note 1.It applies the low power exemption based on ANSI C63.19-2011		

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6. Test Environment

Ambient Temperature	21.7° C
Relative Humidity	<80 %

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7. Description of test system

7.1 Measurement system Diagram for SPEAG Robotic

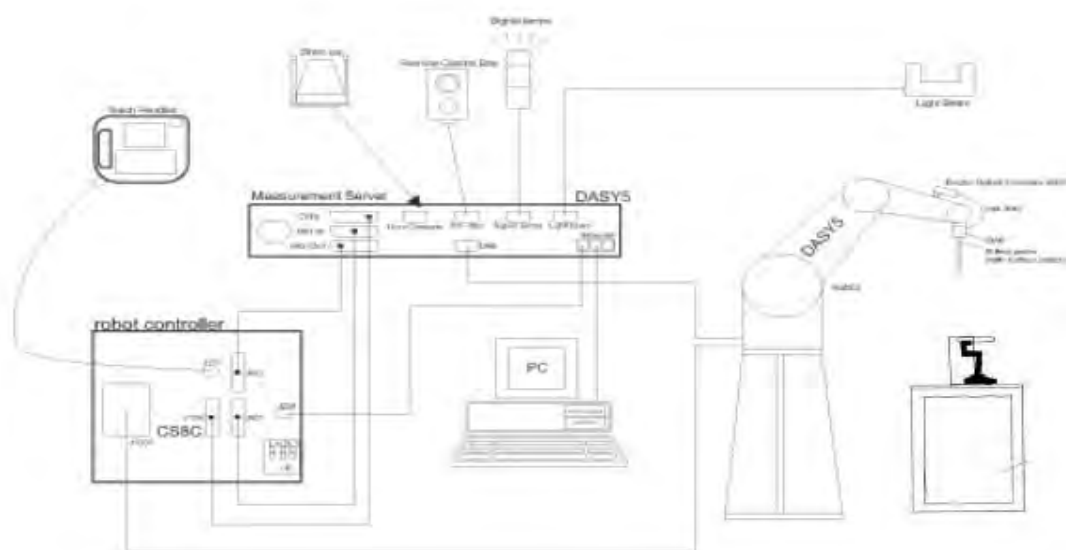


Fig.1 The SPEAG Robotic Diagram

The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- E Field probe.
- 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 between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.

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- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch phantom.
- The device holder for handheld mobile phones.
- Validation dipole kits allowing to validate the proper functioning of the system.

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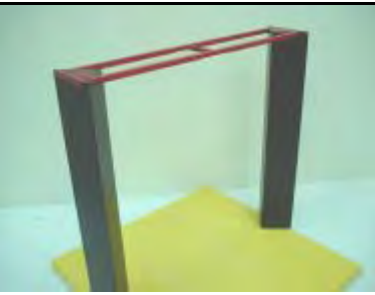
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7.2 E Field Probe

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material	 ER3DV6 E-Field Probe
Calibration	In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$, $k=2$)	
Frequency	(extended to 20 MHz for MRI), Linearity: ± 0.2 dB (100 MHz to 3 GHz)	
Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)	
Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB	
Dimensions	Tip diameter: 8 mm Distance from probe tip to dipole centers: 2.5 mm	

7.3 Test Arch

Description	Enables easy and well defined positioning of the phone and validation dipoles as well as simple teaching of the robot.	 Test Arch
Dimensions	length: 370 mm width: 370 mm height: 370 mm	

7.4 Phone Holder

Description	Supports accurate and reliable positioning of any phone Effect on near field $< \pm 0.5$ dB	 Phone Holder
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8. Test Procedure

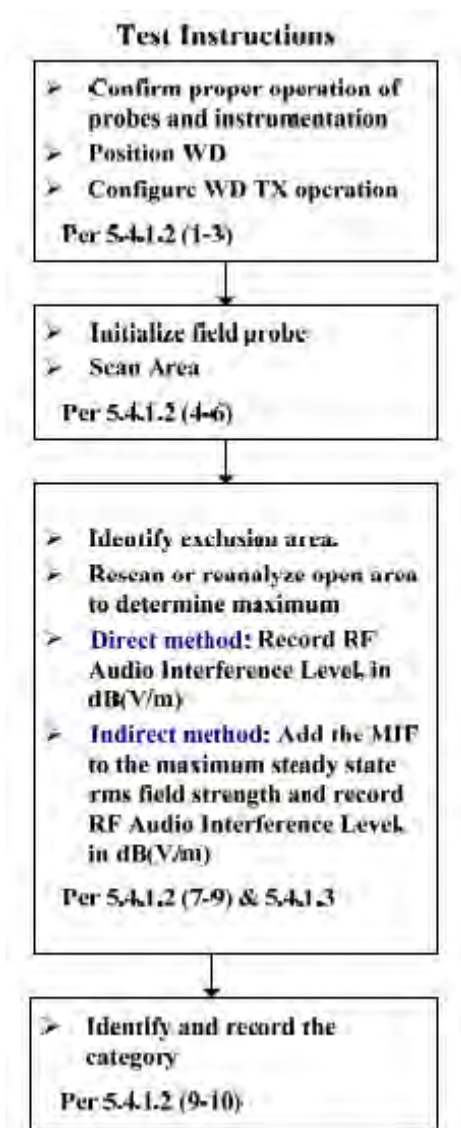


Fig.2 RF emission flow chart

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The following illustrate a typical RF emissions test scan over a wireless communications device (Indirect method):

1. Proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed.
2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.
3. The WD operation for maximum rated RF output power was configured and confirmed with the base station simulator, at the test channel and other normal operating parameters as intended for the test. The battery was ensured to be fully charged before each test.
4. The center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The WD audio output was positioned tangent (as physically possible) to the measurement plane.
5. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC Phantom.
6. The measurement system measured the field strength at the reference location.
7. Measurements at 5mm increments in the 5 × 5 cm region were performed and recorded. A 360° rotation about the azimuth axis at the maximum interpolated position was measured. For the worst-case condition, the peak reading from this rotation was used in re-evaluating the HAC category.
8. The system performed a drift evaluation by measuring the field at the reference location.

Note.

Per KDB 285076 D01 v04r01 2.d) 1), handsets that have the ability to support concurrent connections using simultaneous transmissions shall be independently tested for each air interface/band given in ANSI C63.19-2011. At the present time ANSI C63.19 does not provide simultaneous transmission test procedures.

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9. System Verification

A dipole antenna meeting the requirements given in ANSI C63.19-2011 was placed in the position normally occupied by the WD.

The length of the dipole was scanned by E-field probes and the maximum values for each were recorded.

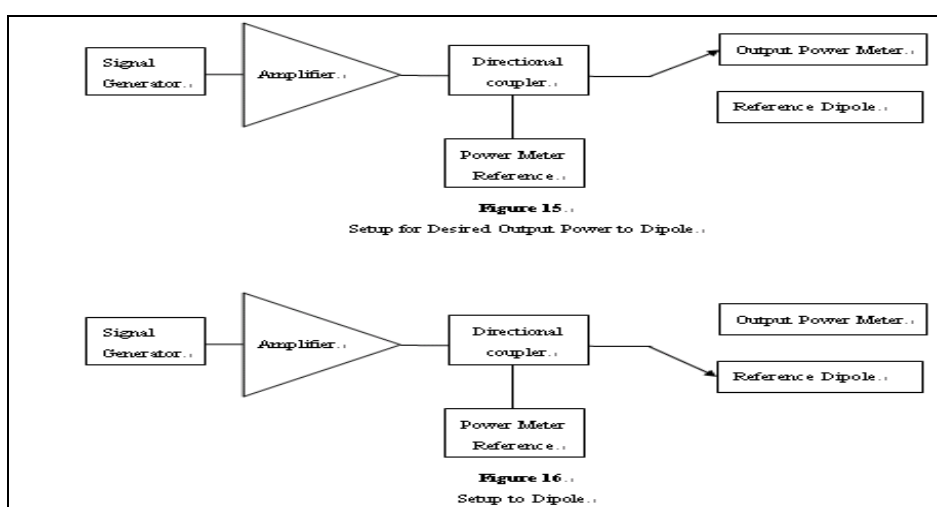


Fig.3 System verification

For E-Field Scan

Mode	Frequency (MHz)	Input Power(dBm)	E-Field 1 (V/m)	E-Field 2(V/m)	Target Value(V/m)	Deviation	Measured Date
CW	835	20	110.5	108.9	108.7	0.92%	Sep.15, 2017
CW	1880	20	91.43	89.94	91	0.35%	Sep.15, 2017
CW	2600	20	87.86	82.14	83.3	2.04%	Sep.29, 2017

Note:

For E-Field, the deviation is $[(\text{E-Field 1} + \text{E-Field 2}) / 2 - \text{Target value}] / \text{Target value} \times 100\%$

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10. Modulation Interference Factor

For any specific fixed and repeatable modulated signal, a modulation interference factor (MIF, expressed in dB) may be developed that relates its interference potential to its steady-state rms signal level or average power level. This factor is a function only of the audio-frequency amplitude modulation characteristics of the signal and is the same for field-strength and conducted power measurements. It is important to emphasize that the MIF is valid only for a specific repeatable audio-frequency amplitude modulation characteristic. Any change in modulation characteristic requires determination and application of a new MIF

The MIF may be determined using a radiated RF field or a conducted RF signal,

- b) Using RF illumination or conducted coupling, apply the specific modulated signal in question to the measurement system at a level within its confirmed operating dynamic range.
- c) Measure the steady-state rms level at the output of the fast probe or sensor.
- d) Measure the steady-state average level at the weighting output.
- e) Without changing the square-law detector or weighting system, and using RF illumination or conducted coupling, substitute for the specific modulated signal a 1 kHz, 80% amplitude modulated carrier at the same frequency and adjust its strength until the level at the weighting output equals the step d) measurement.
- f) Without changing the carrier level from step e), remove the 1 kHz modulation and again measure the steady-state rms level indicated at the output of the fast probe or sensor.
- g) The MIF for the specific modulation characteristic is provided by the ratio of the step f) measurement to the step c) measurement, expressed in dB ($20 \times \log(\text{step f})/\text{step c})$).

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Based on the KDB285076 D01, the handset can also use the MIF values predetermined by the test equipment manufacturer, and the following table lists the MIF values evaluated by DASY manufacturer (SPEAG), and the test result will be calculated with the MIF parameter automatically.

SPEAG UID	UID version	Communication system	MIF(dB)
10021	DAC (8.1.2017)	GSM-FDD (TDMA, GMSK)	3.63
10011	CAB (8.1.2017)	UMTS-FDD (WCDMA)	-27.23
10170	CAD (8.1.2017)	LTE-FDD (SC-FDMA,1RB, 20MHz,16-QAM)	-9.76
10176	CAE (8.1.2017)	LTE-FDD (SC-FDMA,1RB, 10MHz,16-QAM)	-9.76
10178	CAE (8.1.2017)	LTE-FDD (SC-FDMA,1RB, 5MHz,16-QAM)	-9.76
10182	CAD (8.1.2017)	LTE-FDD (SC-FDMA,1RB, 15MHz,16-QAM)	-9.76
10185	CAD (8.1.2017)	LTE-FDD (SC-FDMA,1RB, 3MHz,16-QAM)	-9.76
10188	CAE (8.1.2017)	LTE-FDD (SC-FDMA,1RB, 1.4MHz,16-QAM)	-9.76
10173	CAD(8.1.2017)	LTE-TDD (SC-FDMA,1RB, 20MHz,16-QAM)	-1.44
10226	CAD(8.1.2017)	LTE-TDD (SC-FDMA,1RB, 1.4MHz,16-QAM)	-1.44
10229	CAD(8.1.2017)	LTE-TDD (SC-FDMA,1RB, 3MHz,16-QAM)	-1.44
10232	CAD(8.1.2017)	LTE-TDD (SC-FDMA,1RB, 5MHz,16-QAM)	-1.44
10235	CAD(8.1.2017)	LTE-TDD (SC-FDMA,1RB, 10MHz,16-QAM)	-1.44
10238	CAD(8.1.2017)	LTE-TDD (SC-FDMA,1RB, 15MHz,16-QAM)	-1.44

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11. Measured conducted output power

Band	Channel	Average power(dBm)
GSM 850 (GMSK)	128	32.75
	190	32.75
	251	32.78
GSM 1900 (GMSK)	512	30.07
	661	30.04
	810	29.98
WCDMA Band II	9262	24.45
	9400	24.43
	9538	24.45
WCDMA Band IV	1312	24.1
	1412	24.28
	1513	24.29
WCDMA Band V	4132	23.81
	4183	23.82
	4133	23.93

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LTE FDD Band 2 - conducted power table:

FDD Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1860	18700	22.96	23	0
				1880	18900	22.89	23	0
				1900	19100	22.99	23	0
			50	1860	18700	22.74	23	0
				1880	18900	22.82	23	0
				1900	19100	22.86	23	0
		99	0	1860	18700	22.94	23	0
				1880	18900	22.88	23	0
				1900	19100	22.91	23	0
			50	1860	18700	21.80	22	0-1
				1880	18900	21.87	22	0-1
				1900	19100	21.98	22	0-1
		50 RB	25	1860	18700	21.89	22	0-1
				1880	18900	21.83	22	0-1
				1900	19100	21.99	22	0-1
			50	1860	18700	21.88	22	0-1
				1880	18900	21.76	22	0-1
				1900	19100	21.96	22	0-1
		100RB	0	1860	18700	21.84	22	0-1
				1880	18900	21.85	22	0-1
				1900	19100	21.92	22	0-1
	16-QAM	1 RB	0	1860	18700	21.98	22	0-1
				1880	18900	21.90	22	0-1
				1900	19100	21.93	22	0-1
			50	1860	18700	21.86	22	0-1
				1880	18900	21.92	22	0-1
				1900	19100	21.93	22	0-1
		99	0	1860	18700	21.92	22	0-1
				1880	18900	21.93	22	0-1
				1900	19100	21.97	22	0-1
			50	1860	18700	20.79	21	0-2
				1880	18900	20.86	21	0-2
				1900	19100	20.92	21	0-2
		50 RB	25	1860	18700	20.86	21	0-2
				1880	18900	20.90	21	0-2
				1900	19100	20.97	21	0-2
			50	1860	18700	20.83	21	0-2
				1880	18900	20.74	21	0-2
				1900	19100	20.99	21	0-2
		100RB	0	1860	18700	20.78	21	0-2
				1880	18900	20.90	21	0-2
				1900	19100	20.94	21	0-2
	64-QAM	1 RB	0	1860	18700	21.93	22	0-1
				1880	18900	21.98	22	0-1
				1900	19100	21.90	22	0-1
			50	1860	18700	21.84	22	0-1
				1880	18900	21.82	22	0-1
				1900	19100	21.91	22	0-1
		99	0	1860	18700	21.97	22	0-1
				1880	18900	21.92	22	0-1
				1900	19100	21.93	22	0-1
			50	1860	18700	20.92	21	0-2
				1880	18900	20.79	21	0-2
				1900	19100	20.86	21	0-2
		50 RB	25	1860	18700	20.97	21	0-2
				1880	18900	20.86	21	0-2
				1900	19100	20.90	21	0-2
			50	1860	18700	20.99	21	0-2
				1880	18900	20.83	21	0-2
				1900	19100	20.74	21	0-2
		100RB	0	1860	18700	20.94	21	0-2
				1880	18900	20.78	21	0-2
				1900	19100	20.90	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1857.5	18675	22.71	23	0
				1880	18900	22.92	23	0
				1902.5	19125	22.79	23	0
			36	1857.5	18675	22.53	23	0
				1880	18900	22.75	23	0
				1902.5	19125	22.88	23	0
			74	1857.5	18675	22.66	23	0
				1880	18900	22.79	23	0
				1902.5	19125	22.97	23	0
		36 RB	0	1857.5	18675	21.73	22	0-1
				1880	18900	21.92	22	0-1
				1902.5	19125	21.94	22	0-1
			18	1857.5	18675	21.69	22	0-1
				1880	18900	21.87	22	0-1
				1902.5	19125	22.00	22	0-1
			37	1857.5	18675	21.73	22	0-1
				1880	18900	21.78	22	0-1
				1902.5	19125	21.95	22	0-1
		75RB		1857.5	18675	21.66	22	0-1
				1880	18900	21.88	22	0-1
				1902.5	19125	21.91	22	0-1
	16-QAM	1 RB	0	1857.5	18675	21.91	22	0-1
				1880	18900	21.94	22	0-1
				1902.5	19125	21.98	22	0-1
			36	1857.5	18675	21.97	22	0-1
				1880	18900	21.95	22	0-1
				1902.5	19125	21.83	22	0-1
			74	1857.5	18675	21.91	22	0-1
				1880	18900	21.92	22	0-1
				1902.5	19125	22.00	22	0-1
		36 RB	0	1857.5	18675	20.69	21	0-2
				1880	18900	20.86	21	0-2
				1902.5	19125	20.99	21	0-2
			18	1857.5	18675	20.79	21	0-2
				1880	18900	20.78	21	0-2
				1902.5	19125	21.00	21	0-2
			37	1857.5	18675	20.66	21	0-2
				1880	18900	20.83	21	0-2
				1902.5	19125	20.90	21	0-2
		75RB		1857.5	18675	20.60	21	0-2
				1880	18900	20.84	21	0-2
				1902.5	19125	20.69	21	0-2
	64-QAM	1 RB	0	1857.5	18675	21.98	22	0-1
				1880	18900	21.91	22	0-1
				1902.5	19125	21.94	22	0-1
			36	1857.5	18675	21.83	22	0-1
				1880	18900	21.97	22	0-1
				1902.5	19125	21.95	22	0-1
			74	1857.5	18675	21.94	22	0-1
				1880	18900	21.90	22	0-1
				1902.5	19125	21.92	22	0-1
		36 RB	0	1857.5	18675	20.99	21	0-2
				1880	18900	20.69	21	0-2
				1902.5	19125	20.86	21	0-2
			18	1857.5	18675	20.74	21	0-2
				1880	18900	20.78	21	0-2
				1902.5	19125	20.82	21	0-2
			37	1857.5	18675	20.90	21	0-2
				1880	18900	20.83	21	0-2
				1902.5	19125	20.66	21	0-2
		75RB		1857.5	18675	20.69	21	0-2
				1880	18900	20.60	21	0-2
				1902.5	19125	20.84	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1855	18650	22.69	23	0	
				1880	18900	22.92	23	0	
				1905	19150	22.89	23	0	
			25	1855	18650	22.62	23	0	
				1880	18900	22.74	23	0	
				1905	19150	22.81	23	0	
			49	1855	18650	22.92	23	0	
				1880	18900	22.92	23	0	
				1905	19150	22.84	23	0	
		25 RB	0	1855	18650	21.63	22	0-1	
				1880	18900	21.79	22	0-1	
				1905	19150	21.92	22	0-1	
			12	1855	18650	21.61	22	0-1	
				1880	18900	21.77	22	0-1	
				1905	19150	21.90	22	0-1	
			25	1855	18650	21.58	22	0-1	
				1880	18900	21.74	22	0-1	
				1905	19150	21.84	22	0-1	
		50RB	1855	18650	21.59	22	0-1		
			1880	18900	21.79	22	0-1		
			1905	19150	21.88	22	0-1		
		16-QAM	1 RB	0	1855	18650	21.98	22	0-1
					1880	18900	21.98	22	0-1
					1905	19150	21.94	22	0-1
	25			1855	18650	21.61	22	0-1	
				1880	18900	21.84	22	0-1	
				1905	19150	21.91	22	0-1	
	49			1855	18650	21.79	22	0-1	
				1880	18900	21.80	22	0-1	
				1905	19150	21.97	22	0-1	
	25 RB		0	1855	18650	20.65	21	0-2	
				1880	18900	20.96	21	0-2	
				1905	19150	20.92	21	0-2	
			12	1855	18650	20.67	21	0-2	
				1880	18900	20.82	21	0-2	
				1905	19150	20.98	21	0-2	
			25	1855	18650	20.58	21	0-2	
				1880	18900	20.69	21	0-2	
				1905	19150	20.82	21	0-2	
	50RB		1855	18650	20.56	21	0-2		
			1880	18900	20.71	21	0-2		
			1905	19150	20.92	21	0-2		
	64-QAM		1 RB	0	1855	18650	21.91	22	0-1
					1880	18900	21.88	22	0-1
					1905	19150	21.91	22	0-1
		25		1855	18650	21.60	22	0-1	
				1880	18900	21.82	22	0-1	
				1905	19150	21.88	22	0-1	
		49		1855	18650	21.77	22	0-1	
				1880	18900	21.77	22	0-1	
				1905	19150	21.96	22	0-1	
		25 RB	0	1855	18650	20.63	21	0-2	
				1880	18900	20.93	21	0-2	
				1905	19150	20.90	21	0-2	
			12	1855	18650	20.64	21	0-2	
				1880	18900	20.81	21	0-2	
				1905	19150	20.96	21	0-2	
			25	1855	18650	20.55	21	0-2	
				1880	18900	20.67	21	0-2	
				1905	19150	20.79	21	0-2	
		50RB	1855	18650	20.55	21	0-2		
			1880	18900	20.69	21	0-2		
			1905	19150	20.89	21	0-2		

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1852.5	18625	22.59	23	0
				1880	18900	22.73	23	0
				1907.5	19175	22.83	23	0
			12	1852.5	18625	22.58	23	0
				1880	18900	22.61	23	0
				1907.5	19175	22.89	23	0
			24	1852.5	18625	22.61	23	0
				1880	18900	22.72	23	0
				1907.5	19175	22.86	23	0
		12 RB	0	1852.5	18625	21.61	22	0-1
				1880	18900	21.82	22	0-1
				1907.5	19175	21.87	22	0-1
			6	1852.5	18625	21.59	22	0-1
				1880	18900	21.78	22	0-1
				1907.5	19175	21.87	22	0-1
			13	1852.5	18625	21.62	22	0-1
				1880	18900	21.73	22	0-1
				1907.5	19175	21.86	22	0-1
		25RB		1852.5	18625	21.67	22	0-1
				1880	18900	21.74	22	0-1
				1907.5	19175	21.82	22	0-1
				1852.5	18625	21.97	22	0-1
				1880	18900	21.89	22	0-1
				1907.5	19175	21.93	22	0-1
	16-QAM	1 RB	0	1852.5	18625	21.61	22	0-1
				1880	18900	21.90	22	0-1
				1907.5	19175	21.97	22	0-1
			12	1852.5	18625	21.61	22	0-1
				1880	18900	21.90	22	0-1
				1907.5	19175	21.97	22	0-1
			24	1852.5	18625	21.92	22	0-1
				1880	18900	21.95	22	0-1
				1907.5	19175	21.91	22	0-1
		12 RB	0	1852.5	18625	20.69	21	0-2
				1880	18900	20.80	21	0-2
				1907.5	19175	20.89	21	0-2
			6	1852.5	18625	20.74	21	0-2
				1880	18900	20.80	21	0-2
				1907.5	19175	20.99	21	0-2
			13	1852.5	18625	20.54	21	0-2
				1880	18900	20.77	21	0-2
				1907.5	19175	20.95	21	0-2
		25RB		1852.5	18625	20.61	21	0-2
				1880	18900	20.76	21	0-2
				1907.5	19175	20.95	21	0-2
	64-QAM	1 RB	0	1852.5	18625	21.94	22	0-1
				1880	18900	21.87	22	0-1
				1907.5	19175	21.90	22	0-1
			12	1852.5	18625	21.60	22	0-1
				1880	18900	21.88	22	0-1
				1907.5	19175	21.94	22	0-1
			24	1852.5	18625	21.90	22	0-1
				1880	18900	21.92	22	0-1
				1907.5	19175	21.90	22	0-1
		12 RB	0	1852.5	18625	20.67	21	0-2
				1880	18900	20.77	21	0-2
				1907.5	19175	20.87	21	0-2
			6	1852.5	18625	20.71	21	0-2
				1880	18900	20.79	21	0-2
				1907.5	19175	20.97	21	0-2
			13	1852.5	18625	20.51	21	0-2
				1880	18900	20.75	21	0-2
				1907.5	19175	20.92	21	0-2
		25RB		1852.5	18625	20.60	21	0-2
				1880	18900	20.74	21	0-2
				1907.5	19175	20.92	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1851.5	18615	22.54	23	0
				1880	18900	22.69	23	0
				1908.5	19185	22.75	23	0
			7	1851.5	18615	22.65	23	0
				1880	18900	22.79	23	0
				1908.5	19185	22.79	23	0
			14	1851.5	18615	22.55	23	0
				1880	18900	22.65	23	0
				1908.5	19185	22.76	23	0
		8 RB	0	1851.5	18615	21.57	22	0-1
				1880	18900	21.68	22	0-1
				1908.5	19185	21.83	22	0-1
			4	1851.5	18615	21.53	22	0-1
				1880	18900	21.67	22	0-1
				1908.5	19185	21.82	22	0-1
			7	1851.5	18615	21.46	22	0-1
				1880	18900	21.73	22	0-1
				1908.5	19185	21.79	22	0-1
		15RB		1851.5	18615	21.50	22	0-1
				1880	18900	21.76	22	0-1
				1908.5	19185	21.69	22	0-1
	16-QAM	1 RB	0	1851.5	18615	21.70	22	0-1
				1880	18900	21.82	22	0-1
				1908.5	19185	21.96	22	0-1
			7	1851.5	18615	21.46	22	0-1
				1880	18900	21.97	22	0-1
				1908.5	19185	21.95	22	0-1
			14	1851.5	18615	21.98	22	0-1
				1880	18900	21.99	22	0-1
				1908.5	19185	21.97	22	0-1
		8 RB	0	1851.5	18615	20.57	21	0-2
				1880	18900	20.66	21	0-2
				1908.5	19185	20.96	21	0-2
			4	1851.5	18615	20.67	21	0-2
				1880	18900	20.81	21	0-2
				1908.5	19185	20.84	21	0-2
			7	1851.5	18615	20.55	21	0-2
				1880	18900	20.78	21	0-2
				1908.5	19185	20.77	21	0-2
		15RB		1851.5	18615	20.62	21	0-2
				1880	18900	20.62	21	0-2
				1908.5	19185	20.84	21	0-2
	64-QAM	1 RB	0	1851.5	18615	21.67	22	0-1
				1880	18900	21.80	22	0-1
				1908.5	19185	21.93	22	0-1
			7	1851.5	18615	21.45	22	0-1
				1880	18900	21.95	22	0-1
				1908.5	19185	21.92	22	0-1
			14	1851.5	18615	21.96	22	0-1
				1880	18900	21.96	22	0-1
				1908.5	19185	21.96	22	0-1
		8 RB	0	1851.5	18615	20.55	21	0-2
				1880	18900	20.63	21	0-2
				1908.5	19185	20.94	21	0-2
			4	1851.5	18615	20.64	21	0-2
				1880	18900	20.80	21	0-2
				1908.5	19185	20.82	21	0-2
			7	1851.5	18615	20.52	21	0-2
				1880	18900	20.76	21	0-2
				1908.5	19185	20.74	21	0-2
		15RB		1851.5	18615	20.61	21	0-2
				1880	18900	20.60	21	0-2
				1908.5	19185	20.81	21	0-2

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1.4	QPSK	1 RB	0	1850.7	18607	22.70	23	0
				1880	18900	22.76	23	0
				1909.3	19193	22.93	23	0
			2	1850.7	18607	22.78	23	0
				1880	18900	22.87	23	0
				1909.3	19193	22.88	23	0
			5	1850.7	18607	22.77	23	0
				1880	18900	22.76	23	0
				1909.3	19193	22.82	23	0
		3 RB	0	1850.7	18607	22.80	23	0
				1880	18900	22.90	23	0
				1909.3	19193	22.94	23	0
			2	1850.7	18607	22.86	23	0
				1880	18900	22.84	23	0
				1909.3	19193	22.95	23	0
			3	1850.7	18607	22.73	23	0
				1880	18900	22.76	23	0
				1909.3	19193	22.91	23	0
		6RB		1850.7	18607	21.78	22	0-1
				1880	18900	21.77	22	0-1
				1909.3	19193	21.88	22	0-1
	16-QAM	1 RB	0	1850.7	18607	21.93	22	0-1
				1880	18900	21.91	22	0-1
				1909.3	19193	21.98	22	0-1
			2	1850.7	18607	21.99	22	0-1
				1880	18900	21.90	22	0-1
				1909.3	19193	21.95	22	0-1
			5	1850.7	18607	21.85	22	0-1
				1880	18900	21.75	22	0-1
				1909.3	19193	21.94	22	0-1
		3 RB	0	1850.7	18607	21.82	22	0-1
				1880	18900	21.76	22	0-1
				1909.3	19193	21.94	22	0-1
			2	1850.7	18607	21.83	22	0-1
				1880	18900	21.76	22	0-1
				1909.3	19193	21.97	22	0-1
			3	1850.7	18607	21.83	22	0-1
				1880	18900	21.92	22	0-1
				1909.3	19193	21.79	22	0-1
		6RB		1850.7	18607	20.70	21	0-2
				1880	18900	20.73	21	0-2
				1909.3	19193	20.87	21	0-2
	64-QAM	1 RB	0	1850.7	18607	21.90	22	0-1
				1880	18900	21.89	22	0-1
				1909.3	19193	21.95	22	0-1
			2	1850.7	18607	21.98	22	0-1
				1880	18900	21.88	22	0-1
				1909.3	19193	21.92	22	0-1
			5	1850.7	18607	21.83	22	0-1
				1880	18900	21.72	22	0-1
				1909.3	19193	21.93	22	0-1
		3 RB	0	1850.7	18607	21.80	22	0-1
				1880	18900	21.73	22	0-1
				1909.3	19193	21.92	22	0-1
			2	1850.7	18607	21.80	22	0-1
				1880	18900	21.75	22	0-1
				1909.3	19193	21.95	22	0-1
			3	1850.7	18607	21.80	22	0-1
				1880	18900	21.90	22	0-1
				1909.3	19193	21.76	22	0-1
		6RB		1850.7	18607	20.69	21	0-2
				1880	18900	20.71	21	0-2
				1909.3	19193	20.84	21	0-2

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LTE FDD Band 4 - conducted power table:

FDD Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1720	20050	23.35	24	0
				1732.5	20175	23.53	24	0
				1745	20300	23.55	24	0
			50	1720	20050	23.02	24	0
				1732.5	20175	23.35	24	0
				1745	20300	23.37	24	0
			99	1720	20050	23.21	24	0
				1732.5	20175	23.29	24	0
				1745	20300	23.44	24	0
		50 RB	0	1720	20050	22.34	23	0-1
				1732.5	20175	22.49	23	0-1
				1745	20300	22.59	23	0-1
			25	1720	20050	22.23	23	0-1
				1732.5	20175	22.38	23	0-1
				1745	20300	22.52	23	0-1
			50	1720	20050	22.27	23	0-1
				1732.5	20175	22.39	23	0-1
				1745	20300	22.49	23	0-1
		100RB		1720	20050	22.23	23	0-1
				1732.5	20175	22.34	23	0-1
				1745	20300	22.49	23	0-1
	16-QAM	1 RB	0	1720	20050	22.59	23	0-1
				1732.5	20175	22.52	23	0-1
				1745	20300	22.58	23	0-1
			50	1720	20050	22.35	23	0-1
				1732.5	20175	22.43	23	0-1
				1745	20300	22.49	23	0-1
			99	1720	20050	22.75	23	0-1
				1732.5	20175	22.70	23	0-1
				1745	20300	22.81	23	0-1
		50 RB	0	1720	20050	21.39	22	0-2
				1732.5	20175	21.50	22	0-2
				1745	20300	21.64	22	0-2
			25	1720	20050	21.25	22	0-2
				1732.5	20175	21.42	22	0-2
				1745	20300	21.59	22	0-2
			50	1720	20050	21.21	22	0-2
				1732.5	20175	21.42	22	0-2
				1745	20300	21.48	22	0-2
		100RB		1720	20050	21.17	22	0-2
				1732.5	20175	21.35	22	0-2
				1745	20300	21.48	22	0-2
	64-QAM	1 RB	0	1720	20050	22.56	23	0-1
				1732.5	20175	22.50	23	0-1
				1745	20300	22.55	23	0-1
			50	1720	20050	22.34	23	0-1
				1732.5	20175	22.41	23	0-1
				1745	20300	22.46	23	0-1
			99	1720	20050	22.73	23	0-1
				1732.5	20175	22.67	23	0-1
				1745	20300	22.80	23	0-1
		50 RB	0	1720	20050	21.37	22	0-2
				1732.5	20175	21.47	22	0-2
				1745	20300	21.62	22	0-2
			25	1720	20050	21.22	22	0-2
				1732.5	20175	21.41	22	0-2
				1745	20300	21.57	22	0-2
			50	1720	20050	21.18	22	0-2
				1732.5	20175	21.40	22	0-2
				1745	20300	21.45	22	0-2
		100RB		1720	20050	21.16	22	0-2
				1732.5	20175	21.33	22	0-2
				1745	20300	21.45	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1717.5	20025	23.30	24	0
				1732.5	20175	23.47	24	0
				1747.5	20325	23.50	24	0
			36	1717.5	20025	23.17	24	0
				1732.5	20175	23.21	24	0
				1747.5	20325	23.37	24	0
			74	1717.5	20025	23.18	24	0
				1732.5	20175	23.34	24	0
				1747.5	20325	23.38	24	0
		36 RB	0	1717.5	20025	22.26	23	0-1
				1732.5	20175	22.40	23	0-1
				1747.5	20325	22.55	23	0-1
			18	1717.5	20025	22.26	23	0-1
				1732.5	20175	22.30	23	0-1
				1747.5	20325	22.43	23	0-1
			37	1717.5	20025	22.28	23	0-1
				1732.5	20175	22.31	23	0-1
				1747.5	20325	22.54	23	0-1
		75RB		1717.5	20025	22.20	23	0-1
				1732.5	20175	22.37	23	0-1
				1747.5	20325	22.45	23	0-1
	16-QAM	1 RB	0	1717.5	20025	22.54	23	0-1
				1732.5	20175	22.60	23	0-1
				1747.5	20325	22.80	23	0-1
			36	1717.5	20025	22.13	23	0-1
				1732.5	20175	22.72	23	0-1
				1747.5	20325	22.47	23	0-1
			74	1717.5	20025	22.44	23	0-1
				1732.5	20175	22.73	23	0-1
				1747.5	20325	22.74	23	0-1
		36 RB	0	1717.5	20025	21.24	22	0-2
				1732.5	20175	21.41	22	0-2
				1747.5	20325	21.54	22	0-2
			18	1717.5	20025	21.27	22	0-2
				1732.5	20175	21.35	22	0-2
				1747.5	20325	21.43	22	0-2
			37	1717.5	20025	21.28	22	0-2
				1732.5	20175	21.31	22	0-2
				1747.5	20325	21.49	22	0-2
		75RB		1717.5	20025	21.23	22	0-2
				1732.5	20175	21.37	22	0-2
				1747.5	20325	21.46	22	0-2
	64-QAM	1 RB	0	1717.5	22.51	22.54	23	0-1
				1732.5	22.58	22.60	23	0-1
				1747.5	22.77	22.80	23	0-1
			36	1717.5	22.12	22.13	23	0-1
				1732.5	22.7	22.72	23	0-1
				1747.5	22.44	22.47	23	0-1
			74	1717.5	22.42	22.44	23	0-1
				1732.5	22.7	22.73	23	0-1
				1747.5	22.73	22.74	23	0-1
		36 RB	0	1717.5	21.22	21.24	22	0-2
				1732.5	21.38	21.41	22	0-2
				1747.5	21.52	21.54	22	0-2
			18	1717.5	21.24	21.27	22	0-2
				1732.5	21.34	21.35	22	0-2
				1747.5	21.41	21.43	22	0-2
			37	1717.5	21.25	21.28	22	0-2
				1732.5	21.29	21.31	22	0-2
				1747.5	21.46	21.49	22	0-2
		75RB		1717.5	21.22	21.23	22	0-2
				1732.5	21.35	21.37	22	0-2
				1747.5	21.43	21.46	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1715	20000	23.30	24	0
				1732.5	20175	23.34	24	0
				1750	20350	23.44	24	0
			25	1715	20000	23.29	24	0
				1732.5	20175	23.30	24	0
				1750	20350	23.41	24	0
			49	1715	20000	23.20	24	0
				1732.5	20175	23.22	24	0
				1750	20350	23.49	24	0
		25 RB	0	1715	20000	22.18	23	0-1
				1732.5	20175	22.33	23	0-1
				1750	20350	22.50	23	0-1
			12	1715	20000	22.24	23	0-1
				1732.5	20175	22.29	23	0-1
				1750	20350	22.53	23	0-1
			25	1715	20000	22.22	23	0-1
				1732.5	20175	22.27	23	0-1
				1750	20350	22.53	23	0-1
		50RB		1715	20000	22.20	23	0-1
				1732.5	20175	22.34	23	0-1
				1750	20350	22.50	23	0-1
	16-QAM	1 RB	0	1715	20000	22.60	23	0-1
				1732.5	20175	22.37	23	0-1
				1750	20350	22.96	23	0-1
			25	1715	20000	22.19	23	0-1
				1732.5	20175	22.47	23	0-1
				1750	20350	22.79	23	0-1
			49	1715	20000	22.22	23	0-1
				1732.5	20175	22.37	23	0-1
				1750	20350	22.61	23	0-1
		25 RB	0	1715	20000	21.27	22	0-2
				1732.5	20175	21.25	22	0-2
				1750	20350	21.42	22	0-2
			12	1715	20000	21.25	22	0-2
				1732.5	20175	21.35	22	0-2
				1750	20350	21.57	22	0-2
			25	1715	20000	21.13	22	0-2
				1732.5	20175	21.29	22	0-2
				1750	20350	21.52	22	0-2
		50RB		1715	20000	21.24	22	0-2
				1732.5	20175	21.32	22	0-2
				1750	20350	21.52	22	0-2
	64-QAM	1 RB	0	1715	20000	22.57	23	0-1
				1732.5	20175	22.35	23	0-1
				1750	20350	22.93	23	0-1
			25	1715	20000	22.18	23	0-1
				1732.5	20175	22.45	23	0-1
				1750	20350	22.76	23	0-1
			49	1715	20000	22.20	23	0-1
				1732.5	20175	22.34	23	0-1
				1750	20350	22.60	23	0-1
		25 RB	0	1715	20000	21.25	22	0-2
				1732.5	20175	21.22	22	0-2
				1750	20350	21.40	22	0-2
			12	1715	20000	21.22	22	0-2
				1732.5	20175	21.34	22	0-2
				1750	20350	21.55	22	0-2
			25	1715	20000	21.10	22	0-2
				1732.5	20175	21.27	22	0-2
				1750	20350	21.49	22	0-2
		50RB		1715	20000	21.23	22	0-2
				1732.5	20175	21.30	22	0-2
				1750	20350	21.49	22	0-2

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5	QPSK	1 RB	0	1712.5	19975	23.18	24	0
				1732.5	20175	23.29	24	0
				1752.5	20375	23.43	24	0
			12	1712.5	19975	23.17	24	0
				1732.5	20175	23.34	24	0
				1752.5	20375	23.31	24	0
			24	1712.5	19975	23.13	24	0
				1732.5	20175	23.21	24	0
				1752.5	20375	23.54	24	0
		12 RB	0	1712.5	19975	22.11	23	0-1
				1732.5	20175	22.31	23	0-1
				1752.5	20375	22.44	23	0-1
			6	1712.5	19975	22.21	23	0-1
				1732.5	20175	22.34	23	0-1
				1752.5	20375	22.53	23	0-1
			13	1712.5	19975	22.14	23	0-1
				1732.5	20175	22.27	23	0-1
				1752.5	20375	22.47	23	0-1
		25RB		1712.5	19975	22.17	23	0-1
				1732.5	20175	22.23	23	0-1
				1752.5	20375	22.51	23	0-1
	16-QAM	1 RB	0	1712.5	19975	22.32	23	0-1
				1732.5	20175	22.90	23	0-1
				1752.5	20375	22.55	23	0-1
			12	1712.5	19975	22.30	23	0-1
				1732.5	20175	22.75	23	0-1
				1752.5	20375	22.88	23	0-1
			24	1712.5	19975	22.10	23	0-1
				1732.5	20175	22.50	23	0-1
				1752.5	20375	22.64	23	0-1
		12 RB	0	1712.5	19975	21.26	22	0-2
				1732.5	20175	21.43	22	0-2
				1752.5	20375	21.43	22	0-2
			6	1712.5	19975	21.27	22	0-2
				1732.5	20175	21.32	22	0-2
				1752.5	20375	21.53	22	0-2
			13	1712.5	19975	21.22	22	0-2
				1732.5	20175	21.16	22	0-2
				1752.5	20375	21.40	22	0-2
		25RB		1712.5	19975	21.18	22	0-2
				1732.5	20175	21.34	22	0-2
				1752.5	20375	21.50	22	0-2
	64-QAM	1 RB	0	1712.5	19975	22.29	23	0-1
				1732.5	20175	22.88	23	0-1
				1752.5	20375	22.52	23	0-1
			12	1712.5	19975	22.29	23	0-1
				1732.5	20175	22.73	23	0-1
				1752.5	20375	22.85	23	0-1
			24	1712.5	19975	22.08	23	0-1
				1732.5	20175	22.47	23	0-1
				1752.5	20375	22.63	23	0-1
		12 RB	0	1712.5	19975	21.24	22	0-2
				1732.5	20175	21.40	22	0-2
				1752.5	20375	21.41	22	0-2
			6	1712.5	19975	21.24	22	0-2
				1732.5	20175	21.31	22	0-2
				1752.5	20375	21.51	22	0-2
			13	1712.5	19975	21.19	22	0-2
				1732.5	20175	21.14	22	0-2
				1752.5	20375	21.37	22	0-2
		25RB		1712.5	19975	21.17	22	0-2
				1732.5	20175	21.32	22	0-2
				1752.5	20375	21.47	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1711.5	19965	23.16	24	0
				1732.5	20175	23.26	24	0
				1753.5	20385	23.32	24	0
			7	1711.5	19965	23.26	24	0
				1732.5	20175	23.34	24	0
				1753.5	20385	23.41	24	0
			14	1711.5	19965	23.19	24	0
				1732.5	20175	23.19	24	0
				1753.5	20385	23.29	24	0
		8 RB	0	1711.5	19965	22.19	23	0-1
				1732.5	20175	22.33	23	0-1
				1753.5	20385	22.44	23	0-1
			4	1711.5	19965	22.20	23	0-1
				1732.5	20175	22.25	23	0-1
				1753.5	20385	22.45	23	0-1
			7	1711.5	19965	22.15	23	0-1
				1732.5	20175	22.25	23	0-1
				1753.5	20385	22.42	23	0-1
		15RB		1711.5	19965	22.16	23	0-1
				1732.5	20175	22.26	23	0-1
				1753.5	20385	22.42	23	0-1
	16-QAM	1 RB	0	1711.5	19965	22.65	23	0-1
				1732.5	20175	22.42	23	0-1
				1753.5	20385	22.44	23	0-1
			7	1711.5	19965	22.52	23	0-1
				1732.5	20175	22.58	23	0-1
				1753.5	20385	22.99	23	0-1
			14	1711.5	19965	22.58	23	0-1
				1732.5	20175	22.66	23	0-1
				1753.5	20385	22.66	23	0-1
		8 RB	0	1711.5	19965	21.31	22	0-2
				1732.5	20175	21.39	22	0-2
				1753.5	20385	21.51	22	0-2
			4	1711.5	19965	21.21	22	0-2
				1732.5	20175	21.35	22	0-2
				1753.5	20385	21.46	22	0-2
			7	1711.5	19965	21.15	22	0-2
				1732.5	20175	21.15	22	0-2
				1753.5	20385	21.52	22	0-2
		15RB		1711.5	19965	21.19	22	0-2
				1732.5	20175	21.45	22	0-2
				1753.5	20385	21.38	22	0-2
	16-QAM	1 RB	0	1711.5	19965	22.62	23	0-1
				1732.5	20175	22.40	23	0-1
				1753.5	20385	22.41	23	0-1
			7	1711.5	19965	22.51	23	0-1
				1732.5	20175	22.56	23	0-1
				1753.5	20385	22.96	23	0-1
			14	1711.5	19965	22.56	23	0-1
				1732.5	20175	22.63	23	0-1
				1753.5	20385	22.65	23	0-1
		8 RB	0	1711.5	19965	21.29	22	0-2
				1732.5	20175	21.36	22	0-2
				1753.5	20385	21.49	22	0-2
			4	1711.5	19965	21.18	22	0-2
				1732.5	20175	21.34	22	0-2
				1753.5	20385	21.44	22	0-2
			7	1711.5	19965	21.12	22	0-2
				1732.5	20175	21.13	22	0-2
				1753.5	20385	21.49	22	0-2
		15RB		1711.5	19965	21.18	22	0-2
				1732.5	20175	21.43	22	0-2
				1753.5	20385	21.35	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1710.7	19957	23.11	24	0
				1732.5	20175	23.22	24	0
				1754.3	20393	23.33	24	0
			2	1710.7	19957	23.10	24	0
				1732.5	20175	23.28	24	0
				1754.3	20393	23.35	24	0
			5	1710.7	19957	23.07	24	0
				1732.5	20175	23.22	24	0
				1754.3	20393	23.29	24	0
		3 RB	0	1710.7	19957	23.15	24	0
				1732.5	20175	23.20	24	0
				1754.3	20393	23.34	24	0
			2	1710.7	19957	23.12	24	0
				1732.5	20175	23.22	24	0
				1754.3	20393	23.41	24	0
			3	1710.7	19957	23.13	24	0
				1732.5	20175	23.18	24	0
				1754.3	20393	23.38	24	0
		6RB		1710.7	19957	22.06	23	0-1
				1732.5	20175	22.24	23	0-1
				1754.3	20393	22.38	23	0-1
	16-QAM	1 RB	0	1710.7	19957	21.97	23	0-1
				1732.5	20175	22.64	23	0-1
				1754.3	20393	22.59	23	0-1
			2	1710.7	19957	22.63	23	0-1
				1732.5	20175	22.48	23	0-1
				1754.3	20393	22.88	23	0-1
			5	1710.7	19957	22.31	23	0-1
				1732.5	20175	22.34	23	0-1
				1754.3	20393	22.31	23	0-1
		3 RB	0	1710.7	19957	22.17	23	0-1
				1732.5	20175	22.19	23	0-1
				1754.3	20393	22.46	23	0-1
			2	1710.7	19957	22.24	23	0-1
				1732.5	20175	22.28	23	0-1
				1754.3	20393	22.37	23	0-1
			3	1710.7	19957	22.06	23	0-1
				1732.5	20175	22.27	23	0-1
				1754.3	20393	22.51	23	0-1
		6RB		1710.7	19957	21.15	22	0-2
				1732.5	20175	21.23	22	0-2
				1754.3	20393	21.61	22	0-2
	64-QAM	1 RB	0	1710.7	19957	21.94	23	0-1
				1732.5	20175	22.62	23	0-1
				1754.3	20393	22.56	23	0-1
			2	1710.7	19957	22.62	23	0-1
				1732.5	20175	22.46	23	0-1
				1754.3	20393	22.85	23	0-1
			5	1710.7	19957	22.29	23	0-1
				1732.5	20175	22.31	23	0-1
				1754.3	20393	22.30	23	0-1
		3 RB	0	1710.7	19957	22.15	23	0-1
				1732.5	20175	22.16	23	0-1
				1754.3	20393	22.44	23	0-1
			2	1710.7	19957	22.21	23	0-1
				1732.5	20175	22.27	23	0-1
				1754.3	20393	22.35	23	0-1
			3	1710.7	19957	22.03	23	0-1
				1732.5	20175	22.25	23	0-1
				1754.3	20393	22.48	23	0-1
		6RB		1710.7	19957	21.14	22	0-2
				1732.5	20175	21.21	22	0-2
				1754.3	20393	21.58	22	0-2

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LTE FDD Band 5 - conducted power table:

FDD Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	829	20450	22.48	23	0
				836.5	20525	22.58	23	0
				844	20600	22.99	23	0
			25	829	20450	22.59	23	0
				836.5	20525	22.65	23	0
				844	20600	22.96	23	0
			49	829	20450	22.76	23	0
				836.5	20525	22.69	23	0
				844	20600	22.86	23	0
		25 RB	0	829	20450	21.65	22	0-1
				836.5	20525	21.74	22	0-1
				844	20600	21.86	22	0-1
			12	829	20450	21.67	22	0-1
				836.5	20525	21.75	22	0-1
				844	20600	21.93	22	0-1
			25	829	20450	21.69	22	0-1
				836.5	20525	21.72	22	0-1
				844	20600	21.77	22	0-1
		50RB		829	20450	21.59	22	0-1
				836.5	20525	21.68	22	0-1
				844	20600	21.87	22	0-1
	16-QAM	1 RB	0	829	20450	21.80	22	0-1
				836.5	20525	21.85	22	0-1
				844	20600	21.92	22	0-1
			25	829	20450	21.53	22	0-1
				836.5	20525	21.92	22	0-1
				844	20600	21.91	22	0-1
			49	829	20450	21.58	22	0-1
				836.5	20525	21.98	22	0-1
				844	20600	21.96	22	0-1
		25 RB	0	829	20450	20.67	21	0-2
				836.5	20525	20.72	21	0-2
				844	20600	20.83	21	0-2
			12	829	20450	20.65	21	0-2
				836.5	20525	20.65	21	0-2
				844	20600	20.94	21	0-2
			25	829	20450	20.65	21	0-2
				836.5	20525	20.73	21	0-2
				844	20600	20.91	21	0-2
		500RB		829	20450	20.63	21	0-2
				836.5	20525	20.75	21	0-2
				844	20600	20.99	21	0-2
	64-QAM	1 RB	0	829	20450	21.76	22	0-1
				836.5	20525	21.84	22	0-1
				844	20600	21.90	22	0-1
			25	829	20450	21.49	22	0-1
				836.5	20525	21.88	22	0-1
				844	20600	21.87	22	0-1
			49	829	20450	21.57	22	0-1
				836.5	20525	21.96	22	0-1
				844	20600	21.92	22	0-1
		25 RB	0	829	20450	20.63	21	0-2
				836.5	20525	20.68	21	0-2
				844	20600	20.82	21	0-2
			12	829	20450	20.63	21	0-2
				836.5	20525	20.61	21	0-2
				844	20600	20.90	21	0-2
			25	829	20450	20.61	21	0-2
				836.5	20525	20.72	21	0-2
				844	20600	20.89	21	0-2
		500RB		829	20450	20.59	21	0-2
				836.5	20525	20.71	21	0-2
				844	20600	20.95	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	826.5	20425	22.54	23	0
				836.5	20525	22.73	23	0
				846.5	20625	22.78	23	0
			12	826.5	20425	22.58	23	0
				836.5	20525	22.62	23	0
				846.5	20625	22.90	23	0
			24	826.5	20425	22.60	23	0
				836.5	20525	22.88	23	0
				846.5	20625	22.73	23	0
		12 RB	0	826.5	20425	21.51	22	0-1
				836.5	20525	21.71	22	0-1
				846.5	20625	21.91	22	0-1
			6	826.5	20425	21.70	22	0-1
				836.5	20525	21.65	22	0-1
				846.5	20625	21.90	22	0-1
			13	826.5	20425	21.63	22	0-1
				836.5	20525	21.75	22	0-1
				846.5	20625	21.90	22	0-1
		25RB		826.5	20425	21.66	22	0-1
				836.5	20525	21.70	22	0-1
				846.5	20625	21.91	22	0-1
	16-QAM	1 RB	0	826.5	20425	21.49	22	0-1
				836.5	20525	21.91	22	0-1
				846.5	20625	21.94	22	0-1
			12	826.5	20425	21.97	22	0-1
				836.5	20525	21.93	22	0-1
				846.5	20625	21.99	22	0-1
			24	826.5	20425	21.52	22	0-1
				836.5	20525	21.93	22	0-1
				846.5	20625	21.73	22	0-1
		12 RB	0	826.5	20425	20.59	21	0-2
				836.5	20525	20.75	21	0-2
				846.5	20625	20.98	21	0-2
			6	826.5	20425	20.65	21	0-2
				836.5	20525	20.72	21	0-2
				846.5	20625	20.93	21	0-2
			13	826.5	20425	20.67	21	0-2
				836.5	20525	20.87	21	0-2
				846.5	20625	20.89	21	0-2
		25RB		826.5	20425	20.75	21	0-2
				836.5	20525	20.65	21	0-2
				846.5	20625	20.95	21	0-2
	64-QAM	1 RB	0	826.5	20425	21.45	22	0-1
				836.5	20525	21.90	22	0-1
				846.5	20625	21.92	22	0-1
			12	826.5	20425	21.93	22	0-1
				836.5	20525	21.89	22	0-1
				846.5	20625	21.95	22	0-1
			24	826.5	20425	21.51	22	0-1
				836.5	20525	21.91	22	0-1
				846.5	20625	21.69	22	0-1
		12 RB	0	826.5	20425	20.55	21	0-2
				836.5	20525	20.71	21	0-2
				846.5	20625	20.97	21	0-2
			6	826.5	20425	20.63	21	0-2
				836.5	20525	20.68	21	0-2
				846.5	20625	20.89	21	0-2
			13	826.5	20425	20.63	21	0-2
				836.5	20525	20.86	21	0-2
				846.5	20625	20.87	21	0-2
		25RB		826.5	20425	20.71	21	0-2
				836.5	20525	20.61	21	0-2
				846.5	20625	20.91	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	825.5	20415	22.51	23	0
				836.5	20525	22.59	23	0
				847.5	20635	22.86	23	0
			7	825.5	20415	22.62	23	0
				836.5	20525	22.72	23	0
				847.5	20635	22.94	23	0
			14	825.5	20415	22.63	23	0
				836.5	20525	22.83	23	0
				847.5	20635	22.72	23	0
		8 RB	0	825.5	20415	21.53	22	0-1
				836.5	20525	21.74	22	0-1
				847.5	20635	21.95	22	0-1
			4	825.5	20415	21.60	22	0-1
				836.5	20525	21.65	22	0-1
				847.5	20635	21.91	22	0-1
			7	825.5	20415	21.61	22	0-1
				836.5	20525	21.84	22	0-1
				847.5	20635	21.92	22	0-1
		15RB		825.5	20415	21.57	22	0-1
				836.5	20525	21.71	22	0-1
				847.5	20635	21.84	22	0-1
				825.5	20415	21.69	22	0-1
				836.5	20525	21.97	22	0-1
				847.5	20635	21.96	22	0-1
	16-QAM	1 RB	0	825.5	20415	21.73	22	0-1
				836.5	20525	21.96	22	0-1
				847.5	20635	21.95	22	0-1
			7	825.5	20415	21.90	22	0-1
				836.5	20525	21.96	22	0-1
				847.5	20635	21.98	22	0-1
			14	825.5	20415	21.90	22	0-1
				836.5	20525	21.96	22	0-1
				847.5	20635	21.98	22	0-1
		8 RB	0	825.5	20415	20.66	21	0-2
				836.5	20525	20.83	21	0-2
				847.5	20635	20.91	21	0-2
			4	825.5	20415	20.57	21	0-2
				836.5	20525	20.71	21	0-2
				847.5	20635	20.91	21	0-2
			7	825.5	20415	20.69	21	0-2
				836.5	20525	20.78	21	0-2
				847.5	20635	20.98	21	0-2
		15RB		825.5	20415	20.64	21	0-2
				836.5	20525	20.77	21	0-2
				847.5	20635	20.87	21	0-2
	64-QAM	1 RB	0	825.5	20415	21.65	22	0-1
				836.5	20525	21.96	22	0-1
				847.5	20635	21.94	22	0-1
			7	825.5	20415	21.69	22	0-1
				836.5	20525	21.92	22	0-1
				847.5	20635	21.91	22	0-1
			14	825.5	20415	21.89	22	0-1
				836.5	20525	21.94	22	0-1
				847.5	20635	21.94	22	0-1
		8 RB	0	825.5	20415	20.62	21	0-2
				836.5	20525	20.79	21	0-2
				847.5	20635	20.90	21	0-2
			4	825.5	20415	20.55	21	0-2
				836.5	20525	20.67	21	0-2
				847.5	20635	20.87	21	0-2
			7	825.5	20415	20.65	21	0-2
				836.5	20525	20.77	21	0-2
				847.5	20635	20.96	21	0-2
		15RB		825.5	20415	20.60	21	0-2
				836.5	20525	20.73	21	0-2
				847.5	20635	20.83	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	824.7	20407	22.42	23	0
				836.5	20525	22.61	23	0
				848.3	20643	22.80	23	0
			2	824.7	20407	22.49	23	0
				836.5	20525	22.63	23	0
				848.3	20643	22.80	23	0
			5	824.7	20407	22.49	23	0
				836.5	20525	22.68	23	0
				848.3	20643	22.70	23	0
		3 RB	0	824.7	20407	22.51	23	0
				836.5	20525	22.63	23	0
				848.3	20643	22.75	23	0
			2	824.7	20407	22.52	23	0
				836.5	20525	22.65	23	0
				848.3	20643	22.87	23	0
			3	824.7	20407	22.51	23	0
				836.5	20525	22.64	23	0
				848.3	20643	22.80	23	0
		6RB		824.7	20407	21.41	22	0-1
				836.5	20525	21.65	22	0-1
				848.3	20643	21.77	22	0-1
	16-QAM	1 RB	0	824.7	20407	21.51	22	0-1
				836.5	20525	21.54	22	0-1
				848.3	20643	21.96	22	0-1
			2	824.7	20407	21.45	22	0-1
				836.5	20525	21.94	22	0-1
				848.3	20643	21.96	22	0-1
			5	824.7	20407	21.45	22	0-1
				836.5	20525	21.84	22	0-1
				848.3	20643	21.97	22	0-1
		3 RB	0	824.7	20407	21.50	22	0-1
				836.5	20525	21.71	22	0-1
				848.3	20643	21.82	22	0-1
			2	824.7	20407	21.62	22	0-1
				836.5	20525	21.64	22	0-1
				848.3	20643	21.91	22	0-1
			3	824.7	20407	21.53	22	0-1
				836.5	20525	21.69	22	0-1
				848.3	20643	21.81	22	0-1
		6RB		824.7	20407	20.51	21	0-2
				836.5	20525	20.64	21	0-2
				848.3	20643	20.91	21	0-2
	64-QAM	1 RB	0	824.7	20407	21.47	22	0-1
				836.5	20525	21.53	22	0-1
				848.3	20643	21.94	22	0-1
			2	824.7	20407	21.41	22	0-1
				836.5	20525	21.90	22	0-1
				848.3	20643	21.92	22	0-1
			5	824.7	20407	21.44	22	0-1
				836.5	20525	21.82	22	0-1
				848.3	20643	21.93	22	0-1
		3 RB	0	824.7	20407	21.46	22	0-1
				836.5	20525	21.67	22	0-1
				848.3	20643	21.81	22	0-1
			2	824.7	20407	21.60	22	0-1
				836.5	20525	21.60	22	0-1
				848.3	20643	21.87	22	0-1
			3	824.7	20407	21.49	22	0-1
				836.5	20525	21.68	22	0-1
				848.3	20643	21.79	22	0-1
		6RB		824.7	20407	20.47	21	0-2
				836.5	20525	20.60	21	0-2
				848.3	20643	20.87	21	0-2

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LTE FDD Band 7 - conducted power table:

FDD Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	2510	20850	22.87	23.5	0
				2535	21100	22.96	23.5	0
				2560	21350	22.88	23.5	0
			50	2510	20850	22.69	23.5	0
				2535	21100	22.76	23.5	0
				2560	21350	22.61	23.5	0
			99	2510	20850	22.95	23.5	0
				2535	21100	22.89	23.5	0
				2560	21350	22.54	23.5	0
		50 RB	0	2510	20850	21.25	22.5	0-1
				2535	21100	21.46	22.5	0-1
				2560	21350	21.23	22.5	0-1
			25	2510	20850	21.42	22.5	0-1
				2535	21100	21.47	22.5	0-1
				2560	21350	21.20	22.5	0-1
			50	2510	20850	21.43	22.5	0-1
				2535	21100	21.44	22.5	0-1
				2560	21350	21.05	22.5	0-1
		100RB		2510	20850	21.40	22.5	0-1
				2535	21100	21.41	22.5	0-1
				2560	21350	21.14	22.5	0-1
	16-QAM	1 RB	0	2510	20850	21.59	22.5	0-1
				2535	21100	21.75	22.5	0-1
				2560	21350	21.51	22.5	0-1
			50	2510	20850	21.56	22.5	0-1
				2535	21100	21.28	22.5	0-1
				2560	21350	21.08	22.5	0-1
			99	2510	20850	21.98	22.5	0-1
				2535	21100	21.35	22.5	0-1
				2560	21350	21.57	22.5	0-1
		50 RB	0	2510	20850	20.83	21.5	0-2
				2535	21100	20.99	21.5	0-2
				2560	21350	20.77	21.5	0-2
			25	2510	20850	20.96	21.5	0-2
				2535	21100	20.91	21.5	0-2
				2560	21350	20.75	21.5	0-2
			50	2510	20850	20.90	21.5	0-2
				2535	21100	20.98	21.5	0-2
				2560	21350	20.72	21.5	0-2
		100RB		2510	20850	20.96	21.5	0-2
				2535	21100	20.94	21.5	0-2
				2560	21350	20.73	21.5	0-2
	16-QAM	1 RB	0	2510	20850	21.55	22.5	0-1
				2535	21100	21.74	22.5	0-1
				2560	21350	21.49	22.5	0-1
			50	2510	20850	21.52	22.5	0-1
				2535	21100	21.24	22.5	0-1
				2560	21350	21.04	22.5	0-1
			99	2510	20850	21.97	22.5	0-1
				2535	21100	21.33	22.5	0-1
				2560	21350	21.52	22.5	0-1
		50 RB	0	2510	20850	20.77	21.5	0-2
				2535	21100	20.97	21.5	0-2
				2560	21350	20.75	21.5	0-2
			25	2510	20850	20.94	21.5	0-2
				2535	21100	20.87	21.5	0-2
				2560	21350	20.71	21.5	0-2
			50	2510	20850	20.86	21.5	0-2
				2535	21100	20.97	21.5	0-2
				2560	21350	20.70	21.5	0-2
		100RB		2510	20850	20.92	21.5	0-2
				2535	21100	20.90	21.5	0-2
				2560	21350	20.69	21.5	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	2507.5	20825	22.82	23.5	0
				2535	21100	22.83	23.5	0
				2562.5	21375	22.73	23.5	0
			36	2507.5	20825	22.85	23.5	0
				2535	21100	22.80	23.5	0
				2562.5	21375	22.61	23.5	0
			74	2507.5	20825	22.91	23.5	0
				2535	21100	22.86	23.5	0
				2562.5	21375	22.57	23.5	0
		36 RB	0	2507.5	20825	21.85	22.5	0-1
				2535	21100	21.97	22.5	0-1
				2562.5	21375	21.73	22.5	0-1
			18	2507.5	20825	21.99	22.5	0-1
				2535	21100	21.94	22.5	0-1
				2562.5	21375	21.70	22.5	0-1
			37	2507.5	20825	21.94	22.5	0-1
				2535	21100	21.95	22.5	0-1
				2562.5	21375	21.62	22.5	0-1
		75RB		2507.5	20825	21.88	22.5	0-1
				2535	21100	21.95	22.5	0-1
				2562.5	21375	21.69	22.5	0-1
	16-QAM	1 RB	0	2507.5	20825	21.63	22.5	0-1
				2535	21100	21.92	22.5	0-1
				2562.5	21375	21.53	22.5	0-1
			36	2507.5	20825	21.49	22.5	0-1
				2535	21100	21.62	22.5	0-1
				2562.5	21375	21.40	22.5	0-1
			74	2507.5	20825	21.68	22.5	0-1
				2535	21100	21.44	22.5	0-1
				2562.5	21375	21.46	22.5	0-1
		36 RB	0	2507.5	20825	20.87	21.5	0-2
				2535	21100	20.99	21.5	0-2
				2562.5	21375	20.79	21.5	0-2
			18	2507.5	20825	20.95	21.5	0-2
				2535	21100	20.92	21.5	0-2
				2562.5	21375	20.67	21.5	0-2
			37	2507.5	20825	20.95	21.5	0-2
				2535	21100	20.94	21.5	0-2
				2562.5	21375	20.71	21.5	0-2
		75RB		2507.5	20825	20.97	21.5	0-2
				2535	21100	21.00	21.5	0-2
				2562.5	21375	20.75	21.5	0-2
	64-QAM	1 RB	0	2507.5	20825	21.59	22.5	0-1
				2535	21100	21.91	22.5	0-1
				2562.5	21375	21.51	22.5	0-1
			36	2507.5	20825	21.45	22.5	0-1
				2535	21100	21.58	22.5	0-1
				2562.5	21375	21.36	22.5	0-1
			74	2507.5	20825	21.67	22.5	0-1
				2535	21100	21.42	22.5	0-1
				2562.5	21375	21.41	22.5	0-1
		36 RB	0	2507.5	20825	20.81	21.5	0-2
				2535	21100	20.97	21.5	0-2
				2562.5	21375	20.77	21.5	0-2
			18	2507.5	20825	20.93	21.5	0-2
				2535	21100	20.88	21.5	0-2
				2562.5	21375	20.63	21.5	0-2
			37	2507.5	20825	20.91	21.5	0-2
				2535	21100	20.93	21.5	0-2
				2562.5	21375	20.69	21.5	0-2
		75RB		2507.5	20825	20.93	21.5	0-2
				2535	21100	20.96	21.5	0-2
				2562.5	21375	20.71	21.5	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2505	20800	22.57	23.5	0
				2535	21100	22.60	23.5	0
				2565	21400	22.49	23.5	0
			25	2505	20800	22.54	23.5	0
				2535	21100	22.86	23.5	0
				2565	21400	22.36	23.5	0
			49	2505	20800	22.65	23.5	0
				2535	21100	22.57	23.5	0
				2565	21400	22.37	23.5	0
		25 RB	0	2505	20800	21.56	22.5	0-1
				2535	21100	21.64	22.5	0-1
				2565	21400	21.37	22.5	0-1
			12	2505	20800	21.62	22.5	0-1
				2535	21100	21.72	22.5	0-1
				2565	21400	21.37	22.5	0-1
			25	2505	20800	21.61	22.5	0-1
				2535	21100	21.66	22.5	0-1
				2565	21400	21.41	22.5	0-1
		50RB		2505	20800	21.59	22.5	0-1
				2535	21100	21.67	22.5	0-1
				2565	21400	21.38	22.5	0-1
	16-QAM	1 RB	0	2505	20800	21.91	22.5	0-1
				2535	21100	21.96	22.5	0-1
				2565	21400	21.60	22.5	0-1
			25	2505	20800	21.43	22.5	0-1
				2535	21100	21.83	22.5	0-1
				2565	21400	21.53	22.5	0-1
			49	2505	20800	21.65	22.5	0-1
				2535	21100	21.50	22.5	0-1
				2565	21400	21.23	22.5	0-1
		25 RB	0	2505	20800	20.57	21.5	0-2
				2535	21100	20.64	21.5	0-2
				2565	21400	20.38	21.5	0-2
			12	2505	20800	20.70	21.5	0-2
				2535	21100	20.66	21.5	0-2
				2565	21400	20.38	21.5	0-2
			25	2505	20800	20.65	21.5	0-2
				2535	21100	20.59	21.5	0-2
				2565	21400	20.42	21.5	0-2
		50RB		2505	20800	20.63	21.5	0-2
				2535	21100	20.58	21.5	0-2
				2565	21400	20.40	21.5	0-2
	64-QAM	1 RB	0	2505	20800	21.87	22.5	0-1
				2535	21100	21.95	22.5	0-1
				2565	21400	21.58	22.5	0-1
			25	2505	20800	21.39	22.5	0-1
				2535	21100	21.79	22.5	0-1
				2565	21400	21.49	22.5	0-1
			49	2505	20800	21.64	22.5	0-1
				2535	21100	21.48	22.5	0-1
				2565	21400	21.18	22.5	0-1
		25 RB	0	2505	20800	20.51	21.5	0-2
				2535	21100	20.62	21.5	0-2
				2565	21400	20.36	21.5	0-2
			12	2505	20800	20.68	21.5	0-2
				2535	21100	20.62	21.5	0-2
				2565	21400	20.34	21.5	0-2
			25	2505	20800	20.61	21.5	0-2
				2535	21100	20.58	21.5	0-2
				2565	21400	20.40	21.5	0-2
		50RB		2505	20800	20.59	21.5	0-2
				2535	21100	20.54	21.5	0-2
				2565	21400	20.36	21.5	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	2502.5	20775	22.71	23.5	0
				2535	21100	22.68	23.5	0
				2567.5	21425	22.60	23.5	0
			12	2502.5	20775	22.79	23.5	0
				2535	21100	22.80	23.5	0
				2567.5	21425	22.38	23.5	0
			24	2502.5	20775	22.75	23.5	0
				2535	21100	22.82	23.5	0
				2567.5	21425	22.53	23.5	0
		12 RB	0	2502.5	20775	21.73	22.5	0-1
				2535	21100	21.93	22.5	0-1
				2567.5	21425	21.63	22.5	0-1
			6	2502.5	20775	21.78	22.5	0-1
				2535	21100	21.94	22.5	0-1
				2567.5	21425	21.57	22.5	0-1
			13	2502.5	20775	21.74	22.5	0-1
				2535	21100	21.85	22.5	0-1
				2567.5	21425	21.56	22.5	0-1
		25RB		2502.5	20775	21.78	22.5	0-1
				2535	21100	21.82	22.5	0-1
				2567.5	21425	21.57	22.5	0-1
	16-QAM	1 RB	0	2502.5	20775	21.87	22.5	0-1
				2535	21100	21.63	22.5	0-1
				2567.5	21425	21.35	22.5	0-1
			12	2502.5	20775	21.84	22.5	0-1
				2535	21100	21.92	22.5	0-1
				2567.5	21425	21.35	22.5	0-1
			24	2502.5	20775	21.57	22.5	0-1
				2535	21100	21.60	22.5	0-1
				2567.5	21425	21.37	22.5	0-1
		12 RB	0	2502.5	20775	20.86	21.5	0-2
				2535	21100	20.91	21.5	0-2
				2567.5	21425	20.53	21.5	0-2
			6	2502.5	20775	20.75	21.5	0-2
				2535	21100	20.84	21.5	0-2
				2567.5	21425	20.60	21.5	0-2
			13	2502.5	20775	20.79	21.5	0-2
				2535	21100	20.91	21.5	0-2
				2567.5	21425	20.53	21.5	0-2
		25RB		2502.5	20775	20.76	21.5	0-2
				2535	21100	20.91	21.5	0-2
				2567.5	21425	20.60	21.5	0-2
	64-QAM	1 RB	0	2502.5	20775	21.83	22.5	0-1
				2535	21100	21.62	22.5	0-1
				2567.5	21425	21.33	22.5	0-1
			12	2502.5	20775	21.80	22.5	0-1
				2535	21100	21.88	22.5	0-1
				2567.5	21425	21.31	22.5	0-1
			24	2502.5	20775	21.56	22.5	0-1
				2535	21100	21.58	22.5	0-1
				2567.5	21425	21.32	22.5	0-1
		12 RB	0	2502.5	20775	20.80	21.5	0-2
				2535	21100	20.89	21.5	0-2
				2567.5	21425	20.51	21.5	0-2
			6	2502.5	20775	20.73	21.5	0-2
				2535	21100	20.80	21.5	0-2
				2567.5	21425	20.56	21.5	0-2
			13	2502.5	20775	20.75	21.5	0-2
				2535	21100	20.90	21.5	0-2
				2567.5	21425	20.51	21.5	0-2
		25RB		2502.5	20775	20.72	21.5	0-2
				2535	21100	20.87	21.5	0-2
				2567.5	21425	20.56	21.5	0-2

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LTE FDD Band 12 - conducted power table:

FDD Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	704	23060	22.55	23	0
				707.5	23095	22.65	23	0
				711	23130	22.98	23	0
			25	704	23060	22.91	23	0
				707.5	23095	22.85	23	0
				711	23130	22.76	23	0
			49	704	23060	22.93	23	0
				707.5	23095	22.84	23	0
				711	23130	22.95	23	0
		25 RB	0	704	23060	21.83	22	0-1
				707.5	23095	21.74	22	0-1
				711	23130	21.79	22	0-1
			12	704	23060	21.88	22	0-1
				707.5	23095	21.92	22	0-1
				711	23130	21.87	22	0-1
			25	704	23060	21.82	22	0-1
				707.5	23095	21.85	22	0-1
				711	23130	21.86	22	0-1
		50RB		704	23060	21.84	22	0-1
				707.5	23095	21.81	22	0-1
				711	23130	21.77	22	0-1
	16-QAM	1 RB	0	704	23060	21.99	22	0-1
				707.5	23095	21.83	22	0-1
				711	23130	21.93	22	0-1
			25	704	23060	21.99	22	0-1
				707.5	23095	21.98	22	0-1
				711	23130	21.70	22	0-1
			49	704	23060	21.90	22	0-1
				707.5	23095	21.87	22	0-1
				711	23130	21.91	22	0-1
		25 RB	0	704	23060	20.71	21	0-2
				707.5	23095	20.75	21	0-2
				711	23130	20.84	21	0-2
			12	704	23060	20.78	21	0-2
				707.5	23095	20.90	21	0-2
				711	23130	20.87	21	0-2
			25	704	23060	20.82	21	0-2
				707.5	23095	20.90	21	0-2
				711	23130	20.89	21	0-2
		50RB		704	23060	20.80	21	0-2
				707.5	23095	20.97	21	0-2
				711	23130	20.78	21	0-2
	64-QAM	1 RB	0	704	23060	21.95	22	0-1
				707.5	23095	21.81	22	0-1
				711	23130	21.89	22	0-1
			25	704	23060	21.95	22	0-1
				707.5	23095	21.94	22	0-1
				711	23130	21.66	22	0-1
			49	704	23060	21.87	22	0-1
				707.5	23095	21.83	22	0-1
				711	23130	21.86	22	0-1
		25 RB	0	704	23060	20.65	21	0-2
				707.5	23095	20.73	21	0-2
				711	23130	20.82	21	0-2
			12	704	23060	20.76	21	0-2
				707.5	23095	20.86	21	0-2
				711	23130	20.83	21	0-2
			25	704	23060	20.78	21	0-2
				707.5	23095	20.89	21	0-2
				711	23130	20.87	21	0-2
		50RB		704	23060	20.76	21	0-2
				707.5	23095	20.93	21	0-2
				711	23130	20.74	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	701.5	23035	22.69	23	0
				707.5	23095	22.74	23	0
				713.5	23155	22.69	23	0
			12	701.5	23035	22.69	23	0
				707.5	23095	22.84	23	0
				713.5	23155	22.76	23	0
			24	701.5	23035	22.71	23	0
				707.5	23095	22.79	23	0
				713.5	23155	22.88	23	0
		12 RB	0	701.5	23035	21.64	22	0-1
				707.5	23095	21.72	22	0-1
				713.5	23155	21.85	22	0-1
			6	701.5	23035	21.76	22	0-1
				707.5	23095	21.86	22	0-1
				713.5	23155	21.87	22	0-1
			13	701.5	23035	21.80	22	0-1
				707.5	23095	21.77	22	0-1
				713.5	23155	21.84	22	0-1
		25RB		701.5	23035	21.74	22	0-1
				707.5	23095	21.83	22	0-1
				713.5	23155	21.87	22	0-1
	16-QAM	1 RB	0	701.5	23035	21.78	22	0-1
				707.5	23095	21.87	22	0-1
				713.5	23155	21.75	22	0-1
			12	701.5	23035	21.85	22	0-1
				707.5	23095	21.93	22	0-1
				713.5	23155	21.95	22	0-1
			24	701.5	23035	21.98	22	0-1
				707.5	23095	21.93	22	0-1
				713.5	23155	22.00	22	0-1
		12 RB	0	701.5	23035	20.70	21	0-2
				707.5	23095	20.77	21	0-2
				713.5	23155	20.94	21	0-2
			6	701.5	23035	20.84	21	0-2
				707.5	23095	20.90	21	0-2
				713.5	23155	20.86	21	0-2
			13	701.5	23035	20.77	21	0-2
				707.5	23095	20.84	21	0-2
				713.5	23155	20.87	21	0-2
		25RB		701.5	23035	20.73	21	0-2
				707.5	23095	20.91	21	0-2
				713.5	23155	20.88	21	0-2
	64-QAM	1 RB	0	701.5	23035	21.74	22	0-1
				707.5	23095	21.85	22	0-1
				713.5	23155	21.71	22	0-1
			12	701.5	23035	21.81	22	0-1
				707.5	23095	21.89	22	0-1
				713.5	23155	21.91	22	0-1
			24	701.5	23035	21.95	22	0-1
				707.5	23095	21.89	22	0-1
				713.5	23155	21.95	22	0-1
		12 RB	0	701.5	23035	20.64	21	0-2
				707.5	23095	20.75	21	0-2
				713.5	23155	20.92	21	0-2
			6	701.5	23035	20.82	21	0-2
				707.5	23095	20.86	21	0-2
				713.5	23155	20.82	21	0-2
			13	701.5	23035	20.73	21	0-2
				707.5	23095	20.83	21	0-2
				713.5	23155	20.85	21	0-2
		25RB		701.5	23035	20.69	21	0-2
				707.5	23095	20.87	21	0-2
				713.5	23155	20.84	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	700.5	23025	22.49	23	0
				707.5	23095	22.68	23	0
				714.5	23165	22.77	23	0
			7	700.5	23025	22.66	23	0
				707.5	23095	22.72	23	0
				714.5	23165	22.89	23	0
			14	700.5	23025	22.61	23	0
				707.5	23095	22.68	23	0
				714.5	23165	22.70	23	0
		8 RB	0	700.5	23025	21.55	22	0-1
				707.5	23095	21.77	22	0-1
				714.5	23165	21.72	22	0-1
			4	700.5	23025	21.70	22	0-1
				707.5	23095	21.81	22	0-1
				714.5	23165	21.77	22	0-1
			7	700.5	23025	21.71	22	0-1
				707.5	23095	21.69	22	0-1
				714.5	23165	21.74	22	0-1
		15RB		700.5	23025	21.65	22	0-1
				707.5	23095	21.70	22	0-1
				714.5	23165	21.68	22	0-1
	16-QAM	1 RB	0	700.5	23025	21.59	22	0-1
				707.5	23095	21.98	22	0-1
				714.5	23165	21.62	22	0-1
			7	700.5	23025	21.91	22	0-1
				707.5	23095	21.82	22	0-1
				714.5	23165	21.92	22	0-1
			14	700.5	23025	21.83	22	0-1
				707.5	23095	21.98	22	0-1
				714.5	23165	21.90	22	0-1
		8 RB	0	700.5	23025	20.62	21	0-2
				707.5	23095	20.85	21	0-2
				714.5	23165	20.78	21	0-2
			4	700.5	23025	20.67	21	0-2
				707.5	23095	20.86	21	0-2
				714.5	23165	20.85	21	0-2
			7	700.5	23025	20.81	21	0-2
				707.5	23095	20.70	21	0-2
				714.5	23165	20.85	21	0-2
		15RB		700.5	23025	20.61	21	0-2
				707.5	23095	20.82	21	0-2
				714.5	23165	20.75	21	0-2
	64-QAM	1 RB	0	700.5	23025	21.55	22	0-1
				707.5	23095	21.96	22	0-1
				714.5	23165	21.58	22	0-1
			7	700.5	23025	21.87	22	0-1
				707.5	23095	21.78	22	0-1
				714.5	23165	21.88	22	0-1
			14	700.5	23025	21.80	22	0-1
				707.5	23095	21.94	22	0-1
				714.5	23165	21.85	22	0-1
		8 RB	0	700.5	23025	20.56	21	0-2
				707.5	23095	20.83	21	0-2
				714.5	23165	20.76	21	0-2
			4	700.5	23025	20.65	21	0-2
				707.5	23095	20.82	21	0-2
				714.5	23165	20.81	21	0-2
			7	700.5	23025	20.77	21	0-2
				707.5	23095	20.69	21	0-2
				714.5	23165	20.83	21	0-2
		15RB		700.5	23025	20.57	21	0-2
				707.5	23095	20.78	21	0-2
				714.5	23165	20.71	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	699.7	23017	22.60	23	0
				707.5	23095	22.68	23	0
				715.3	23173	22.66	23	0
			2	699.7	23017	22.66	23	0
				707.5	23095	22.82	23	0
				715.3	23173	22.82	23	0
			5	699.7	23017	22.57	23	0
				707.5	23095	22.77	23	0
				715.3	23173	22.67	23	0
		3 RB	0	699.7	23017	22.65	23	0
				707.5	23095	22.81	23	0
				715.3	23173	22.74	23	0
			2	699.7	23017	22.66	23	0
				707.5	23095	22.82	23	0
				715.3	23173	22.84	23	0
			3	699.7	23017	22.64	23	0
				707.5	23095	22.78	23	0
				715.3	23173	22.82	23	0
		6RB		699.7	23017	21.68	22	0-1
				707.5	23095	21.78	22	0-1
				715.3	23173	21.76	22	0-1
	16-QAM	1 RB	0	699.7	23017	21.94	22	0-1
				707.5	23095	21.87	22	0-1
				715.3	23173	21.63	22	0-1
			2	699.7	23017	21.87	22	0-1
				707.5	23095	21.98	22	0-1
				715.3	23173	21.93	22	0-1
			5	699.7	23017	21.96	22	0-1
				707.5	23095	21.92	22	0-1
				715.3	23173	21.95	22	0-1
		3 RB	0	699.7	23017	21.64	22	0-1
				707.5	23095	21.84	22	0-1
				715.3	23173	21.79	22	0-1
			2	699.7	23017	21.66	22	0-1
				707.5	23095	21.87	22	0-1
				715.3	23173	21.87	22	0-1
			3	699.7	23017	21.52	22	0-1
				707.5	23095	21.81	22	0-1
				715.3	23173	21.59	22	0-1
		6RB		699.7	23017	20.66	21	0-2
				707.5	23095	20.84	21	0-2
				715.3	23173	20.76	21	0-2
	64-QAM	1 RB	0	699.7	23017	21.90	22	0-1
				707.5	23095	21.85	22	0-1
				715.3	23173	21.59	22	0-1
			2	699.7	23017	21.83	22	0-1
				707.5	23095	21.94	22	0-1
				715.3	23173	21.89	22	0-1
			5	699.7	23017	21.93	22	0-1
				707.5	23095	21.88	22	0-1
				715.3	23173	21.90	22	0-1
		3 RB	0	699.7	23017	21.58	22	0-1
				707.5	23095	21.82	22	0-1
				715.3	23173	21.77	22	0-1
			2	699.7	23017	21.64	22	0-1
				707.5	23095	21.83	22	0-1
				715.3	23173	21.83	22	0-1
			3	699.7	23017	21.48	22	0-1
				707.5	23095	21.80	22	0-1
				715.3	23173	21.57	22	0-1
		6RB		699.7	23017	20.62	21	0-2
				707.5	23095	20.80	21	0-2
				715.3	23173	20.72	21	0-2

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LTE FDD Band 17 - conducted power table:

FDD Band 17								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	709	23780	22.74	23	0
				710	23790	22.89	23	0
				711	23800	22.98	23	0
			25	709	23780	22.80	23	0
				710	23790	22.65	23	0
				711	23800	22.91	23	0
			49	709	23780	22.97	23	0
				710	23790	22.90	23	0
				711	23800	22.78	23	0
		25 RB	0	709	23780	21.85	22	0-1
				710	23790	21.77	22	0-1
				711	23800	21.81	22	0-1
			12	709	23780	21.82	22	0-1
				710	23790	21.93	22	0-1
				711	23800	21.78	22	0-1
			25	709	23780	21.88	22	0-1
				710	23790	21.92	22	0-1
				711	23800	21.96	22	0-1
		50RB		709	23780	21.86	22	0-1
				710	23790	21.80	22	0-1
				711	23800	21.75	22	0-1
	16-QAM	1 RB	0	709	23780	21.76	22	0-1
				710	23790	21.89	22	0-1
				711	23800	21.76	22	0-1
			25	709	23780	21.75	22	0-1
				710	23790	21.94	22	0-1
				711	23800	21.78	22	0-1
			49	709	23780	21.95	22	0-1
				710	23790	21.92	22	0-1
				711	23800	21.93	22	0-1
		25 RB	0	709	23780	20.77	21	0-2
				710	23790	20.85	21	0-2
				711	23800	20.81	21	0-2
			12	709	23780	20.83	21	0-2
				710	23790	20.91	21	0-2
				711	23800	20.86	21	0-2
			25	709	23780	20.86	21	0-2
				710	23790	20.99	21	0-2
				711	23800	20.76	21	0-2
		50RB		709	23780	20.83	21	0-2
				710	23790	20.99	21	0-2
				711	23800	20.84	21	0-2
	64-QAM	1 RB	0	709	23780	21.72	22	0-1
				710	23790	21.87	22	0-1
				711	23800	21.72	22	0-1
			25	709	23780	21.71	22	0-1
				710	23790	21.90	22	0-1
				711	23800	21.74	22	0-1
			49	709	23780	21.92	22	0-1
				710	23790	21.88	22	0-1
				711	23800	21.88	22	0-1
		25 RB	0	709	23780	20.71	21	0-2
				710	23790	20.83	21	0-2
				711	23800	20.79	21	0-2
			12	709	23780	20.81	21	0-2
				710	23790	20.87	21	0-2
				711	23800	20.82	21	0-2
			25	709	23780	20.82	21	0-2
				710	23790	20.98	21	0-2
				711	23800	20.74	21	0-2
		50RB		709	23780	20.79	21	0-2
				710	23790	20.95	21	0-2
				711	23800	20.80	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	706.5	23755	22.50	23	0
				710	23790	22.63	23	0
				713.5	23825	22.52	23	0
			12	706.5	23755	22.64	23	0
				710	23790	22.72	23	0
				713.5	23825	22.40	23	0
			24	706.5	23755	22.43	23	0
				710	23790	22.64	23	0
				713.5	23825	22.93	23	0
		12 RB	0	706.5	23755	21.66	22	0-1
				710	23790	21.67	22	0-1
				713.5	23825	21.72	22	0-1
			6	706.5	23755	21.66	22	0-1
				710	23790	21.64	22	0-1
				713.5	23825	21.77	22	0-1
			13	706.5	23755	21.70	22	0-1
				710	23790	21.67	22	0-1
				713.5	23825	21.78	22	0-1
		25RB		706.5	23755	21.66	22	0-1
				710	23790	21.62	22	0-1
				713.5	23825	21.76	22	0-1
	16-QAM	1 RB	0	706.5	23755	21.92	22	0-1
				710	23790	21.76	22	0-1
				713.5	23825	21.63	22	0-1
			12	706.5	23755	21.74	22	0-1
				710	23790	21.95	22	0-1
				713.5	23825	21.98	22	0-1
			24	706.5	23755	21.91	22	0-1
				710	23790	21.95	22	0-1
				713.5	23825	21.77	22	0-1
		12 RB	0	706.5	23755	20.71	21	0-2
				710	23790	20.75	21	0-2
				713.5	23825	20.78	21	0-2
			6	706.5	23755	20.60	21	0-2
				710	23790	20.69	21	0-2
				713.5	23825	20.75	21	0-2
			13	706.5	23755	20.57	21	0-2
				710	23790	20.64	21	0-2
				713.5	23825	20.76	21	0-2
		25RB		706.5	23755	20.62	21	0-2
				710	23790	20.68	21	0-2
				713.5	23825	20.75	21	0-2
	64-QAM	1 RB	0	706.5	23755	21.88	22	0-1
				710	23790	21.74	22	0-1
				713.5	23825	21.59	22	0-1
			12	706.5	23755	21.70	22	0-1
				710	23790	21.91	22	0-1
				713.5	23825	21.94	22	0-1
			24	706.5	23755	21.88	22	0-1
				710	23790	21.91	22	0-1
				713.5	23825	21.72	22	0-1
		12 RB	0	706.5	23755	20.65	21	0-2
				710	23790	20.73	21	0-2
				713.5	23825	20.76	21	0-2
			6	706.5	23755	20.58	21	0-2
				710	23790	20.65	21	0-2
				713.5	23825	20.71	21	0-2
			13	706.5	23755	20.53	21	0-2
				710	23790	20.63	21	0-2
				713.5	23825	20.74	21	0-2
		25RB		706.5	23755	20.58	21	0-2
				710	23790	20.64	21	0-2
				713.5	23825	20.71	21	0-2

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LTE FDD Band 25 - conducted power table:

FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1860	26140	22.78	23	0
				1882.5	26365	22.64	23	0
				1905	26590	22.99	23	0
			50	1860	26140	22.37	23	0
				1882.5	26365	22.35	23	0
				1905	26590	22.55	23	0
			99	1860	26140	22.52	23	0
				1882.5	26365	22.51	23	0
				1905	26590	22.75	23	0
		50 RB	0	1860	26140	21.46	22	0-1
				1882.5	26365	21.56	22	0-1
				1905	26590	21.85	22	0-1
			25	1860	26140	21.48	22	0-1
				1882.5	26365	21.47	22	0-1
				1905	26590	21.83	22	0-1
			50	1860	26140	21.51	22	0-1
				1882.5	26365	21.38	22	0-1
				1905	26590	21.75	22	0-1
		100RB		1860	26140	21.53	22	0-1
				1882.5	26365	21.49	22	0-1
				1905	26590	21.90	22	0-1
	16-QAM	1 RB	0	1860	26140	21.92	22	0-1
				1882.5	26365	21.62	22	0-1
				1905	26590	21.92	22	0-1
			50	1860	26140	21.89	22	0-1
				1882.5	26365	21.45	22	0-1
				1905	26590	21.90	22	0-1
			99	1860	26140	21.79	22	0-1
				1882.5	26365	22.00	22	0-1
				1905	26590	21.98	22	0-1
		50 RB	0	1860	26140	20.41	21	0-2
				1882.5	26365	20.48	21	0-2
				1905	26590	20.88	21	0-2
			25	1860	26140	20.55	21	0-2
				1882.5	26365	20.47	21	0-2
				1905	26590	20.79	21	0-2
			50	1860	26140	20.44	21	0-2
				1882.5	26365	20.45	21	0-2
				1905	26590	20.88	21	0-2
		100RB		1860	26140	20.56	21	0-2
				1882.5	26365	20.50	21	0-2
				1905	26590	20.92	21	0-2
	64-QAM	1 RB	0	1860	26140	21.88	22	0-1
				1882.5	26365	21.60	22	0-1
				1905	26590	21.89	22	0-1
			50	1860	26140	21.85	22	0-1
				1882.5	26365	21.41	22	0-1
				1905	26590	21.86	22	0-1
			99	1860	26140	21.78	22	0-1
				1882.5	26365	21.99	22	0-1
				1905	26590	21.93	22	0-1
		50 RB	0	1860	26140	20.35	21	0-2
				1882.5	26365	20.46	21	0-2
				1905	26590	20.84	21	0-2
			25	1860	26140	20.52	21	0-2
				1882.5	26365	20.46	21	0-2
				1905	26590	20.75	21	0-2
			50	1860	26140	20.40	21	0-2
				1882.5	26365	20.44	21	0-2
				1905	26590	20.86	21	0-2
		100RB		1860	26140	20.52	21	0-2
				1882.5	26365	20.46	21	0-2
				1905	26590	20.88	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1857.5	26115	22.58	23	0
				1882.5	26365	22.50	23	0
				1907.5	26615	22.86	23	0
			36	1857.5	26115	22.51	23	0
				1882.5	26365	22.44	23	0
				1907.5	26615	22.66	23	0
			74	1857.5	26115	22.47	23	0
				1882.5	26365	22.43	23	0
				1907.5	26615	22.71	23	0
		36 RB	0	1857.5	26115	21.55	22	0-1
				1882.5	26365	21.52	22	0-1
				1907.5	26615	21.81	22	0-1
			18	1857.5	26115	21.56	22	0-1
				1882.5	26365	21.46	22	0-1
				1907.5	26615	21.76	22	0-1
			37	1857.5	26115	21.49	22	0-1
				1882.5	26365	21.39	22	0-1
				1907.5	26615	21.78	22	0-1
			75RB	1857.5	26115	21.52	22	0-1
				1882.5	26365	21.44	22	0-1
				1907.5	26615	21.86	22	0-1
	16-QAM	1 RB	0	1857.5	26115	21.93	22	0-1
				1882.5	26365	21.74	22	0-1
				1907.5	26615	21.91	22	0-1
			36	1857.5	26115	21.97	22	0-1
				1882.5	26365	21.78	22	0-1
				1907.5	26615	21.88	22	0-1
			74	1857.5	26115	21.67	22	0-1
				1882.5	26365	21.94	22	0-1
				1907.5	26615	21.87	22	0-1
		36 RB	0	1857.5	26115	20.51	21	0-2
				1882.5	26365	20.56	21	0-2
				1907.5	26615	20.91	21	0-2
			18	1857.5	26115	20.60	21	0-2
				1882.5	26365	20.54	21	0-2
				1907.5	26615	20.85	21	0-2
			37	1857.5	26115	20.57	21	0-2
				1882.5	26365	20.42	21	0-2
				1907.5	26615	20.83	21	0-2
		75RB		1857.5	26115	20.68	21	0-2
				1882.5	26365	20.49	21	0-2
				1907.5	26615	20.80	21	0-2
	64-QAM	1 RB	0	1857.5	26115	21.89	22	0-1
				1882.5	26365	21.72	22	0-1
				1907.5	26615	21.88	22	0-1
			36	1857.5	26115	21.93	22	0-1
				1882.5	26365	21.74	22	0-1
				1907.5	26615	21.84	22	0-1
			74	1857.5	26115	21.66	22	0-1
				1882.5	26365	21.93	22	0-1
				1907.5	26615	21.82	22	0-1
		36 RB	0	1857.5	26115	20.45	21	0-2
				1882.5	26365	20.54	21	0-2
				1907.5	26615	20.87	21	0-2
			18	1857.5	26115	20.57	21	0-2
				1882.5	26365	20.53	21	0-2
				1907.5	26615	20.81	21	0-2
			37	1857.5	26115	20.53	21	0-2
				1882.5	26365	20.41	21	0-2
				1907.5	26615	20.81	21	0-2
		75RB		1857.5	26115	20.64	21	0-2
				1882.5	26365	20.45	21	0-2
				1907.5	26615	20.76	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1855	26090	22.78	23	0
				1882.5	26365	22.69	23	0
				1910	26640	22.79	23	0
			25	1855	26090	22.36	23	0
				1882.5	26365	22.31	23	0
				1910	26640	22.59	23	0
			49	1855	26090	22.62	23	0
				1882.5	26365	22.59	23	0
				1910	26640	22.72	23	0
		25 RB	0	1855	26090	21.43	22	0-1
				1882.5	26365	21.45	22	0-1
				1910	26640	21.77	22	0-1
			12	1855	26090	21.44	22	0-1
				1882.5	26365	21.46	22	0-1
				1910	26640	21.73	22	0-1
			25	1855	26090	21.50	22	0-1
				1882.5	26365	21.39	22	0-1
				1910	26640	21.79	22	0-1
		50RB		1855	26090	21.46	22	0-1
				1882.5	26365	21.47	22	0-1
				1910	26640	21.85	22	0-1
	16-QAM	1 RB	0	1855	26090	21.84	22	0-1
				1882.5	26365	21.89	22	0-1
				1910	26640	21.94	22	0-1
			25	1855	26090	21.55	22	0-1
				1882.5	26365	21.54	22	0-1
				1910	26640	21.99	22	0-1
			49	1855	26090	21.97	22	0-1
				1882.5	26365	21.76	22	0-1
				1910	26640	21.97	22	0-1
		25 RB	0	1855	26090	20.53	21	0-2
				1882.5	26365	20.49	21	0-2
				1910	26640	20.82	21	0-2
			12	1855	26090	20.54	21	0-2
				1882.5	26365	20.53	21	0-2
				1910	26640	20.87	21	0-2
			25	1855	26090	20.46	21	0-2
				1882.5	26365	20.36	21	0-2
				1910	26640	20.81	21	0-2
		50RB		1855	26090	20.47	21	0-2
				1882.5	26365	20.47	21	0-2
				1910	26640	20.85	21	0-2
	64-QAM	1 RB	0	1855	26090	21.80	22	0-1
				1882.5	26365	21.87	22	0-1
				1910	26640	21.91	22	0-1
			25	1855	26090	21.51	22	0-1
				1882.5	26365	21.50	22	0-1
				1910	26640	21.95	22	0-1
			49	1855	26090	21.96	22	0-1
				1882.5	26365	21.75	22	0-1
				1910	26640	21.92	22	0-1
		25 RB	0	1855	26090	20.47	21	0-2
				1882.5	26365	20.47	21	0-2
				1910	26640	20.78	21	0-2
			12	1855	26090	20.51	21	0-2
				1882.5	26365	20.52	21	0-2
				1910	26640	20.83	21	0-2
			25	1855	26090	20.42	21	0-2
				1882.5	26365	20.35	21	0-2
				1910	26640	20.79	21	0-2
		50RB		1855	26090	20.43	21	0-2
				1882.5	26365	20.43	21	0-2
				1910	26640	20.81	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1852.5	26065	22.47	23	0
				1882.5	26365	22.29	23	0
				1912.5	26665	22.71	23	0
			12	1852.5	26065	22.37	23	0
				1882.5	26365	22.38	23	0
				1912.5	26665	22.65	23	0
			24	1852.5	26065	22.45	23	0
				1882.5	26365	22.35	23	0
				1912.5	26665	22.60	23	0
		12 RB	0	1852.5	26065	21.50	22	0-1
				1882.5	26365	21.42	22	0-1
				1912.5	26665	21.80	22	0-1
			6	1852.5	26065	21.44	22	0-1
				1882.5	26365	21.41	22	0-1
				1912.5	26665	21.76	22	0-1
			13	1852.5	26065	21.46	22	0-1
				1882.5	26365	21.38	22	0-1
				1912.5	26665	21.70	22	0-1
		25RB		1852.5	26065	21.51	22	0-1
				1882.5	26365	21.35	22	0-1
				1912.5	26665	21.78	22	0-1
	16-QAM	1 RB	0	1852.5	26065	21.69	22	0-1
				1882.5	26365	21.86	22	0-1
				1912.5	26665	21.63	22	0-1
			12	1852.5	26065	21.31	22	0-1
				1882.5	26365	21.69	22	0-1
				1912.5	26665	21.92	22	0-1
			24	1852.5	26065	21.50	22	0-1
				1882.5	26365	21.25	22	0-1
				1912.5	26665	21.94	22	0-1
		12 RB	0	1852.5	26065	20.55	21	0-2
				1882.5	26365	20.49	21	0-2
				1912.5	26665	20.71	21	0-2
			6	1852.5	26065	20.46	21	0-2
				1882.5	26365	20.46	21	0-2
				1912.5	26665	20.75	21	0-2
			13	1852.5	26065	20.43	21	0-2
				1882.5	26365	20.44	21	0-2
				1912.5	26665	20.74	21	0-2
		25RB		1852.5	26065	20.50	21	0-2
				1882.5	26365	20.38	21	0-2
				1912.5	26665	20.79	21	0-2
	64-QAM	1 RB	0	1852.5	26065	21.65	22	0-1
				1882.5	26365	21.84	22	0-1
				1912.5	26665	21.60	22	0-1
			12	1852.5	26065	21.27	22	0-1
				1882.5	26365	21.65	22	0-1
				1912.5	26665	21.88	22	0-1
			24	1852.5	26065	21.49	22	0-1
				1882.5	26365	21.24	22	0-1
				1912.5	26665	21.89	22	0-1
		12 RB	0	1852.5	26065	20.49	21	0-2
				1882.5	26365	20.47	21	0-2
				1912.5	26665	20.67	21	0-2
			6	1852.5	26065	20.43	21	0-2
				1882.5	26365	20.45	21	0-2
				1912.5	26665	20.71	21	0-2
			13	1852.5	26065	20.39	21	0-2
				1882.5	26365	20.43	21	0-2
				1912.5	26665	20.72	21	0-2
		25RB		1852.5	26065	20.46	21	0-2
				1882.5	26365	20.34	21	0-2
				1912.5	26665	20.75	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1851.5	26055	22.47	23	0
				1882.5	26365	22.45	23	0
				1913.5	26675	22.75	23	0
			7	1851.5	26055	22.47	23	0
				1882.5	26365	22.38	23	0
				1913.5	26675	22.63	23	0
			14	1851.5	26055	22.41	23	0
				1882.5	26365	22.32	23	0
				1913.5	26675	22.65	23	0
		8 RB	0	1851.5	26055	21.49	22	0-1
				1882.5	26365	21.32	22	0-1
				1913.5	26675	21.70	22	0-1
			4	1851.5	26055	21.43	22	0-1
				1882.5	26365	21.36	22	0-1
				1913.5	26675	21.75	22	0-1
			7	1851.5	26055	21.38	22	0-1
				1882.5	26365	21.37	22	0-1
				1913.5	26675	21.77	22	0-1
		15RB		1851.5	26055	21.36	22	0-1
				1882.5	26365	21.33	22	0-1
				1913.5	26675	21.68	22	0-1
	16-QAM	1 RB	0	1851.5	26055	21.39	22	0-1
				1882.5	26365	21.46	22	0-1
				1913.5	26675	21.95	22	0-1
			7	1851.5	26055	21.63	22	0-1
				1882.5	26365	21.43	22	0-1
				1913.5	26675	21.95	22	0-1
			14	1851.5	26055	21.85	22	0-1
				1882.5	26365	21.47	22	0-1
				1913.5	26675	21.77	22	0-1
		8 RB	0	1851.5	26055	20.37	21	0-2
				1882.5	26365	20.55	21	0-2
				1913.5	26675	20.82	21	0-2
			4	1851.5	26055	20.58	21	0-2
				1882.5	26365	20.50	21	0-2
				1913.5	26675	20.77	21	0-2
			7	1851.5	26055	20.58	21	0-2
				1882.5	26365	20.42	21	0-2
				1913.5	26675	20.77	21	0-2
		15RB		1851.5	26055	20.46	21	0-2
				1882.5	26365	20.40	21	0-2
				1913.5	26675	20.54	21	0-2
	64-QAM	1 RB	0	1851.5	26055	21.35	22	0-1
				1882.5	26365	21.44	22	0-1
				1913.5	26675	21.92	22	0-1
			7	1851.5	26055	21.59	22	0-1
				1882.5	26365	21.39	22	0-1
				1913.5	26675	21.91	22	0-1
			14	1851.5	26055	21.84	22	0-1
				1882.5	26365	21.46	22	0-1
				1913.5	26675	21.72	22	0-1
		8 RB	0	1851.5	26055	20.31	21	0-2
				1882.5	26365	20.53	21	0-2
				1913.5	26675	20.78	21	0-2
			4	1851.5	26055	20.55	21	0-2
				1882.5	26365	20.49	21	0-2
				1913.5	26675	20.73	21	0-2
			7	1851.5	26055	20.54	21	0-2
				1882.5	26365	20.41	21	0-2
				1913.5	26675	20.75	21	0-2
		15RB		1851.5	26055	20.42	21	0-2
				1882.5	26365	20.36	21	0-2
				1913.5	26675	20.50	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	26047	22.69	23	0
				1882.5	26365	22.80	23	0
				1914.3	26683	22.81	23	0
			2	1850.7	26047	22.69	23	0
				1882.5	26365	22.91	23	0
				1914.3	26683	22.87	23	0
			5	1850.7	26047	22.62	23	0
				1882.5	26365	22.75	23	0
				1914.3	26683	22.76	23	0
		3 RB	0	1850.7	26047	21.70	22	0-1
				1882.5	26365	21.83	22	0-1
				1914.3	26683	21.85	22	0-1
			2	1850.7	26047	21.73	22	0-1
				1882.5	26365	21.86	22	0-1
				1914.3	26683	21.92	22	0-1
			3	1850.7	26047	21.72	22	0-1
				1882.5	26365	21.85	22	0-1
				1914.3	26683	21.84	22	0-1
		6RB		1850.7	26047	20.59	22	0-1
				1882.5	26365	20.82	22	0-1
				1914.3	26683	20.97	22	0-1
	16-QAM	1 RB	0	1850.7	26047	20.91	22	0-1
				1882.5	26365	20.71	22	0-1
				1914.3	26683	21.17	22	0-1
			2	1850.7	26047	20.63	22	0-1
				1882.5	26365	21.01	22	0-1
				1914.3	26683	20.92	22	0-1
			5	1850.7	26047	20.69	22	0-1
				1882.5	26365	20.94	22	0-1
				1914.3	26683	21.30	22	0-1
		3 RB	0	1850.7	26047	20.74	21	0-2
				1882.5	26365	20.93	21	0-2
				1914.3	26683	20.89	21	0-2
			2	1850.7	26047	20.86	21	0-2
				1882.5	26365	20.95	21	0-2
				1914.3	26683	20.91	21	0-2
			3	1850.7	26047	20.68	21	0-2
				1882.5	26365	20.91	21	0-2
				1914.3	26683	20.96	21	0-2
		6RB		1850.7	26047	20.82	21	0-2
				1882.5	26365	20.93	21	0-2
				1914.3	26683	20.94	21	0-2
	64-QAM	1 RB	0	1850.7	26047	20.87	22	0-1
				1882.5	26365	20.69	22	0-1
				1914.3	26683	21.14	22	0-1
			2	1850.7	26047	20.59	22	0-1
				1882.5	26365	20.97	22	0-1
				1914.3	26683	20.88	22	0-1
			5	1850.7	26047	20.68	22	0-1
				1882.5	26365	20.93	22	0-1
				1914.3	26683	21.25	22	0-1
		3 RB	0	1850.7	26047	20.68	21	0-2
				1882.5	26365	20.91	21	0-2
				1914.3	26683	20.85	21	0-2
			2	1850.7	26047	20.83	21	0-2
				1882.5	26365	20.94	21	0-2
				1914.3	26683	20.87	21	0-2
			3	1850.7	26047	20.64	21	0-2
				1882.5	26365	20.90	21	0-2
				1914.3	26683	20.94	21	0-2
		6RB		1850.7	26047	20.78	21	0-2
				1882.5	26365	20.89	21	0-2
				1914.3	26683	20.90	21	0-2

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LTE FDD Band 26 - conducted power table:

FDD Band 26								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	822.5	26825	22.63	23	0
				831.5	26865	22.57	23	0
				841.5	26965	22.98	23	0
			36	822.5	26825	22.80	23	0
				831.5	26865	22.69	23	0
				841.5	26965	22.88	23	0
			74	822.5	26825	22.84	23	0
				831.5	26865	22.73	23	0
				841.5	26965	22.77	23	0
		36 RB	0	822.5	26825	21.70	22	0-1
				831.5	26865	21.69	22	0-1
				841.5	26965	21.80	22	0-1
			18	822.5	26825	21.88	22	0-1
				831.5	26865	21.83	22	0-1
				841.5	26965	21.96	22	0-1
			37	822.5	26825	21.89	22	0-1
				831.5	26865	21.76	22	0-1
				841.5	26965	21.91	22	0-1
			75RB	822.5	26825	21.81	22	0-1
				831.5	26865	21.77	22	0-1
				841.5	26965	21.86	22	0-1
	16-QAM	1 RB	0	822.5	26825	21.99	22	0-1
				831.5	26865	21.78	22	0-1
				841.5	26965	21.92	22	0-1
			36	822.5	26825	21.91	22	0-1
				831.5	26865	21.92	22	0-1
				841.5	26965	21.99	22	0-1
			74	822.5	26825	21.95	22	0-1
				831.5	26865	21.94	22	0-1
				841.5	26965	21.98	22	0-1
		36 RB	0	822.5	26825	20.82	21	0-2
				831.5	26865	20.71	21	0-2
				841.5	26965	20.79	21	0-2
			18	822.5	26825	20.86	21	0-2
				831.5	26865	20.77	21	0-2
				841.5	26965	20.94	21	0-2
			37	822.5	26825	20.86	21	0-2
				831.5	26865	20.77	21	0-2
				841.5	26965	20.98	21	0-2
			75RB	822.5	26825	20.79	21	0-2
				831.5	26865	20.76	21	0-2
				841.5	26965	20.90	21	0-2
	64-QAM	1 RB	0	822.5	26825	21.95	22	0-1
				831.5	26865	21.76	22	0-1
				841.5	26965	21.89	22	0-1
			36	822.5	26825	21.87	22	0-1
				831.5	26865	21.88	22	0-1
				841.5	26965	21.95	22	0-1
			74	822.5	26825	21.94	22	0-1
				831.5	26865	21.93	22	0-1
				841.5	26965	21.93	22	0-1
		36 RB	0	822.5	26825	20.76	21	0-2
				831.5	26865	20.69	21	0-2
				841.5	26965	20.75	21	0-2
			18	822.5	26825	20.83	21	0-2
				831.5	26865	20.76	21	0-2
				841.5	26965	20.90	21	0-2
			37	822.5	26825	20.82	21	0-2
				831.5	26865	20.76	21	0-2
				841.5	26965	20.96	21	0-2
			75RB	822.5	26825	20.75	21	0-2
				831.5	26865	20.72	21	0-2
				841.5	26965	20.86	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	820	26750	22.67	23	0
				831.5	26865	22.67	23	0
				844	26990	22.88	23	0
			25	820	26750	22.79	23	0
				831.5	26865	22.63	23	0
				844	26990	22.89	23	0
			49	820	26750	22.75	23	0
				831.5	26865	22.67	23	0
				844	26990	22.82	23	0
		25 RB	0	820	26750	21.78	22	0-1
				831.5	26865	21.62	22	0-1
				844	26990	21.99	22	0-1
			12	820	26750	21.74	22	0-1
				831.5	26865	21.69	22	0-1
				844	26990	21.98	22	0-1
			25	820	26750	21.76	22	0-1
				831.5	26865	21.82	22	0-1
				844	26990	22.00	22	0-1
		50RB		820	26750	21.70	22	0-1
				831.5	26865	21.78	22	0-1
				844	26990	21.41	22	0-1
	16-QAM	1 RB	0	820	26750	21.38	22	0-1
				831.5	26865	21.57	22	0-1
				844	26990	21.67	22	0-1
			25	820	26750	21.47	22	0-1
				831.5	26865	21.18	22	0-1
				844	26990	21.99	22	0-1
			49	820	26750	21.39	22	0-1
				831.5	26865	21.58	22	0-1
				844	26990	21.42	22	0-1
		25 RB	0	820	26750	20.61	21	0-2
				831.5	26865	20.60	21	0-2
				844	26990	20.77	21	0-2
			12	820	26750	20.60	21	0-2
				831.5	26865	20.65	21	0-2
				844	26990	20.93	21	0-2
			25	820	26750	20.67	21	0-2
				831.5	26865	20.72	21	0-2
				844	26990	20.91	21	0-2
		50RB		820	26750	20.67	21	0-2
				831.5	26865	20.67	21	0-2
				844	26990	20.99	21	0-2
	64-QAM	1 RB	0	820	26750	21.34	22	0-1
				831.5	26865	21.55	22	0-1
				844	26990	21.64	22	0-1
			25	820	26750	21.43	22	0-1
				831.5	26865	21.14	22	0-1
				844	26990	21.95	22	0-1
			49	820	26750	21.38	22	0-1
				831.5	26865	21.57	22	0-1
				844	26990	21.37	22	0-1
		25 RB	0	820	26750	20.55	21	0-2
				831.5	26865	20.58	21	0-2
				844	26990	20.73	21	0-2
			12	820	26750	20.57	21	0-2
				831.5	26865	20.64	21	0-2
				844	26990	20.89	21	0-2
			25	820	26750	20.63	21	0-2
				831.5	26865	20.71	21	0-2
				844	26990	20.89	21	0-2
		50RB		820	26750	20.63	21	0-2
				831.5	26865	20.63	21	0-2
				844	26990	20.95	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	816.5	26715	22.51	23	0
				831.5	26865	22.57	23	0
				846.5	27015	22.92	23	0
			12	816.5	26715	22.45	23	0
				831.5	26865	22.69	23	0
				846.5	27015	22.71	23	0
		24		816.5	26715	22.52	23	0
				831.5	26865	22.54	23	0
				846.5	27015	22.78	23	0
			0	816.5	26715	21.53	22	0-1
				831.5	26865	21.67	22	0-1
				846.5	27015	21.95	22	0-1
		12 RB	6	816.5	26715	21.49	22	0-1
				831.5	26865	21.81	22	0-1
				846.5	27015	21.85	22	0-1
			13	816.5	26715	21.61	22	0-1
				831.5	26865	21.73	22	0-1
				846.5	27015	21.82	22	0-1
		25RB		816.5	26715	21.59	22	0-1
				831.5	26865	21.66	22	0-1
				846.5	27015	21.88	22	0-1
	16-QAM	1 RB	0	816.5	26715	21.58	22	0-1
				831.5	26865	21.39	22	0-1
				846.5	27015	21.97	22	0-1
			12	816.5	26715	21.37	22	0-1
				831.5	26865	21.82	22	0-1
				846.5	27015	21.77	22	0-1
		24		816.5	26715	21.34	22	0-1
				831.5	26865	21.27	22	0-1
				846.5	27015	21.47	22	0-1
			0	816.5	26715	20.66	21	0-2
				831.5	26865	20.69	21	0-2
				846.5	27015	20.99	21	0-2
		12 RB	6	816.5	26715	20.57	21	0-2
				831.5	26865	20.79	21	0-2
				846.5	27015	20.89	21	0-2
			13	816.5	26715	20.58	21	0-2
				831.5	26865	20.80	21	0-2
				846.5	27015	20.85	21	0-2
		25RB		816.5	26715	20.56	21	0-2
				831.5	26865	20.75	21	0-2
				846.5	27015	20.88	21	0-2
	64-QAM	1 RB	0	816.5	26715	21.54	22	0-1
				831.5	26865	21.37	22	0-1
				846.5	27015	21.94	22	0-1
			12	816.5	26715	21.33	22	0-1
				831.5	26865	21.78	22	0-1
				846.5	27015	21.73	22	0-1
		24		816.5	26715	21.33	22	0-1
				831.5	26865	21.26	22	0-1
				846.5	27015	21.42	22	0-1
			0	816.5	26715	20.60	21	0-2
				831.5	26865	20.67	21	0-2
				846.5	27015	20.95	21	0-2
		12 RB	6	816.5	26715	20.54	21	0-2
				831.5	26865	20.78	21	0-2
				846.5	27015	20.85	21	0-2
			13	816.5	26715	20.54	21	0-2
				831.5	26865	20.79	21	0-2
				846.5	27015	20.83	21	0-2
		25RB		816.5	26715	20.52	21	0-2
				831.5	26865	20.71	21	0-2
				846.5	27015	20.84	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	815.5	26705	22.27	23	0
				831.5	26865	22.35	23	0
				847.5	27025	22.93	23	0
			7	815.5	26705	22.41	23	0
				831.5	26865	22.64	23	0
				847.5	27025	22.84	23	0
			14	815.5	26705	22.40	23	0
				831.5	26865	22.41	23	0
				847.5	27025	22.62	23	0
		8 RB	0	815.5	26705	21.33	22	0-1
				831.5	26865	21.55	22	0-1
				847.5	27025	21.73	22	0-1
			4	815.5	26705	21.34	22	0-1
				831.5	26865	21.50	22	0-1
				847.5	27025	21.81	22	0-1
			7	815.5	26705	21.28	22	0-1
				831.5	26865	21.46	22	0-1
				847.5	27025	21.77	22	0-1
		15RB		815.5	26705	21.29	22	0-1
				831.5	26865	21.55	22	0-1
				847.5	27025	21.71	22	0-1
	16-QAM	1 RB	0	815.5	26705	21.75	22	0-1
				831.5	26865	21.88	22	0-1
				847.5	27025	21.92	22	0-1
			7	815.5	26705	21.48	22	0-1
				831.5	26865	21.88	22	0-1
				847.5	27025	21.86	22	0-1
		8 RB	0	815.5	26705	21.82	22	0-1
				831.5	26865	21.67	22	0-1
				847.5	27025	21.87	22	0-1
			4	815.5	26705	20.40	21	0-2
				831.5	26865	20.56	21	0-2
				847.5	27025	20.91	21	0-2
		15RB	4	815.5	26705	20.38	21	0-2
				831.5	26865	20.57	21	0-2
				847.5	27025	20.87	21	0-2
			7	815.5	26705	20.19	21	0-2
				831.5	26865	20.48	21	0-2
				847.5	27025	20.84	21	0-2
	64-QAM	1 RB	0	815.5	26705	20.33	21	0-2
				831.5	26865	20.60	21	0-2
				847.5	27025	20.65	21	0-2
			7	815.5	26705	21.71	22	0-1
				831.5	26865	21.86	22	0-1
				847.5	27025	21.89	22	0-1
		8 RB	7	815.5	26705	21.44	22	0-1
				831.5	26865	21.84	22	0-1
				847.5	27025	21.82	22	0-1
			14	815.5	26705	21.81	22	0-1
				831.5	26865	21.66	22	0-1
				847.5	27025	21.82	22	0-1
		15RB	0	815.5	26705	20.34	21	0-2
				831.5	26865	20.54	21	0-2
				847.5	27025	20.87	21	0-2
			4	815.5	26705	20.35	21	0-2
				831.5	26865	20.56	21	0-2
				847.5	27025	20.83	21	0-2
			7	815.5	26705	20.15	21	0-2
				831.5	26865	20.47	21	0-2
				847.5	27025	20.82	21	0-2
				815.5	26705	20.29	21	0-2
				831.5	26865	20.56	21	0-2
				847.5	27025	20.61	21	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	814.7	26697	22.41	23	0
				831.5	26865	22.60	23	0
				848.3	27033	22.77	23	0
			2	814.7	26697	22.47	23	0
				831.5	26865	22.64	23	0
				848.3	27033	22.92	23	0
			5	814.7	26697	22.44	23	0
				831.5	26865	22.56	23	0
				848.3	27033	22.81	23	0
		3 RB	0	814.7	26697	21.50	22	0-1
				831.5	26865	21.64	22	0-1
				848.3	27033	21.90	22	0-1
			2	814.7	26697	21.52	22	0-1
				831.5	26865	21.61	22	0-1
				848.3	27033	21.84	22	0-1
			3	814.7	26697	21.53	22	0-1
				831.5	26865	21.72	22	0-1
				848.3	27033	21.84	22	0-1
		6RB		814.7	26697	20.41	22	0-1
				831.5	26865	20.62	22	0-1
				848.3	27033	20.85	22	0-1
	16-QAM	1 RB	0	814.7	26697	20.75	22	0-1
				831.5	26865	21.18	22	0-1
				848.3	27033	21.31	22	0-1
			2	814.7	26697	20.44	22	0-1
				831.5	26865	21.04	22	0-1
				848.3	27033	21.02	22	0-1
			5	814.7	26697	20.83	22	0-1
				831.5	26865	20.54	22	0-1
				848.3	27033	21.37	22	0-1
		3 RB	0	814.7	26697	20.54	21	0-2
				831.5	26865	20.70	21	0-2
				848.3	27033	20.73	21	0-2
			2	814.7	26697	20.52	21	0-2
				831.5	26865	20.75	21	0-2
				848.3	27033	20.96	21	0-2
			3	814.7	26697	20.37	21	0-2
				831.5	26865	20.66	21	0-2
				848.3	27033	20.99	21	0-2
		6RB		814.7	26697	19.52	21	0-2
				831.5	26865	19.69	21	0-2
				848.3	27033	19.84	21	0-2
	64-QAM	1 RB	0	814.7	26697	20.71	22	0-1
				831.5	26865	21.16	22	0-1
				848.3	27033	21.28	22	0-1
			2	814.7	26697	20.40	22	0-1
				831.5	26865	21.00	22	0-1
				848.3	27033	20.98	22	0-1
			5	814.7	26697	20.82	22	0-1
				831.5	26865	20.53	22	0-1
				848.3	27033	21.32	22	0-1
		3 RB	0	814.7	26697	20.48	21	0-2
				831.5	26865	20.68	21	0-2
				848.3	27033	20.69	21	0-2
			2	814.7	26697	20.49	21	0-2
				831.5	26865	20.74	21	0-2
				848.3	27033	20.92	21	0-2
			3	814.7	26697	20.33	21	0-2
				831.5	26865	20.65	21	0-2
				848.3	27033	20.97	21	0-2
		6RB		814.7	26697	19.48	21	0-2
				831.5	26865	19.65	21	0-2
				848.3	27033	19.80	21	0-2

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LTE FDD Band 30 - conducted power table:

FDD Band 30								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2310	27710	22.80	23	0
			25	2310	27710	22.71	23	0
			49	2310	27710	22.98	23	0
		25 RB	0	2310	27710	21.75	22	0-1
			12	2310	27710	21.88	22	0-1
			25	2310	27710	21.84	22	0-1
		50RB		2310	27710	21.80	22	0-1
	16-QAM	1 RB	0	2310	27710	21.56	22	0-1
			25	2310	27710	21.89	22	0-1
			49	2310	27710	21.98	22	0-1
		25 RB	0	2310	27710	20.68	21	0-2
			12	2310	27710	20.86	21	0-2
			25	2310	27710	20.79	21	0-2
		50RB		2310	27710	20.78	21	0-2
	64-QAM	1 RB	0	2310	27710	21.50	22	0-1
			25	2310	27710	21.87	22	0-1
			49	2310	27710	21.95	22	0-1
		25 RB	0	2310	27710	20.64	21	0-2
			12	2310	27710	20.82	21	0-2
			25	2310	27710	20.75	21	0-2
		50RB		2310	27710	20.77	21	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	2307.5	27685	22.88	23	0
				2310	27710	22.72	23	0
				2312.5	27735	22.75	23	0
			12	2307.5	27685	22.68	23	0
				2310	27710	22.81	23	0
				2312.5	27735	22.91	23	0
			24	2307.5	27685	22.89	23	0
				2310	27710	22.92	23	0
				2312.5	27735	22.88	23	0
		12 RB	0	2307.5	27685	21.87	22	0-1
				2310	27710	21.92	22	0-1
				2312.5	27735	21.80	22	0-1
			6	2307.5	27685	21.89	22	0-1
				2310	27710	21.98	22	0-1
				2312.5	27735	21.93	22	0-1
			13	2307.5	27685	21.81	22	0-1
				2310	27710	21.94	22	0-1
				2312.5	27735	21.92	22	0-1
		25RB		2307.5	27685	21.80	22	0-1
				2310	27710	21.92	22	0-1
				2312.5	27735	21.86	22	0-1
	16-QAM	1 RB	0	2307.5	27685	21.79	22	0-1
				2310	27710	21.80	22	0-1
				2312.5	27735	21.81	22	0-1
			12	2307.5	27685	21.56	22	0-1
				2310	27710	21.78	22	0-1
				2312.5	27735	21.77	22	0-1
			24	2307.5	27685	21.77	22	0-1
				2310	27710	21.99	22	0-1
				2312.5	27735	21.52	22	0-1
		12 RB	0	2307.5	27685	20.88	21	0-2
				2310	27710	20.90	21	0-2
				2312.5	27735	20.76	21	0-2
			6	2307.5	27685	20.92	21	0-2
				2310	27710	20.92	21	0-2
				2312.5	27735	20.89	21	0-2
			13	2307.5	27685	20.80	21	0-2
				2310	27710	20.96	21	0-2
				2312.5	27735	20.89	21	0-2
		25RB		2307.5	27685	20.83	21	0-2
				2310	27710	20.87	21	0-2
				2312.5	27735	20.96	21	0-2
	64-QAM	1 RB	0	2307.5	27685	21.73	22	0-1
				2310	27710	21.78	22	0-1
				2312.5	27735	21.78	22	0-1
			12	2307.5	27685	21.52	22	0-1
				2310	27710	21.74	22	0-1
				2312.5	27735	21.73	22	0-1
			24	2307.5	27685	21.76	22	0-1
				2310	27710	21.98	22	0-1
				2312.5	27735	21.47	22	0-1
		12 RB	0	2307.5	27685	20.83	21	0-2
				2310	27710	20.87	21	0-2
				2312.5	27735	20.72	21	0-2
			6	2307.5	27685	20.91	21	0-2
				2310	27710	20.91	21	0-2
				2312.5	27735	20.85	21	0-2
			13	2307.5	27685	20.76	21	0-2
				2310	27710	20.95	21	0-2
				2312.5	27735	20.87	21	0-2
		25RB		2307.5	27685	20.81	21	0-2
				2310	27710	20.83	21	0-2
				2312.5	27735	20.92	21	0-2

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LTE TDD Band 38 - conducted power table:

TDD Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	2580	37850	23.00	24	0
				2595	38000	23.13	24	0
				2610	38150	23.55	24	0
			50	2580	37850	22.90	24	0
				2595	38000	23.00	24	0
				2610	38150	23.11	24	0
			99	2580	37850	22.90	24	0
				2595	38000	23.34	24	0
				2610	38150	23.25	24	0
		50 RB	0	2580	37850	22.01	23	0-1
				2595	38000	22.26	23	0-1
				2610	38150	22.34	23	0-1
			25	2580	37850	22.02	23	0-1
				2595	38000	22.09	23	0-1
				2610	38150	22.36	23	0-1
			50	2580	37850	22.07	23	0-1
				2595	38000	22.13	23	0-1
				2610	38150	22.24	23	0-1
		100RB		2580	37850	22.06	23	0-1
				2595	38000	22.17	23	0-1
				2610	38150	22.36	23	0-1
	16-QAM	1 RB	0	2580	37850	22.31	23	0-1
				2595	38000	22.48	23	0-1
				2610	38150	22.55	23	0-1
			50	2580	37850	22.12	23	0-1
				2595	38000	22.31	23	0-1
				2610	38150	22.33	23	0-1
			99	2580	37850	22.12	23	0-1
				2595	38000	22.41	23	0-1
				2610	38150	22.33	23	0-1
		50 RB	0	2580	37850	21.14	22	0-2
				2595	38000	21.28	22	0-2
				2610	38150	21.37	22	0-2
			25	2580	37850	21.05	22	0-2
				2595	38000	21.23	22	0-2
				2610	38150	21.38	22	0-2
			50	2580	37850	21.09	22	0-2
				2595	38000	21.16	22	0-2
				2610	38150	21.27	22	0-2
		100RB		2580	37850	21.14	22	0-2
				2595	38000	21.16	22	0-2
				2610	38150	21.33	22	0-2
	64-QAM	1 RB	0	2580	37850	22.25	23	0-1
				2595	38000	22.46	23	0-1
				2610	38150	22.52	23	0-1
			50	2580	37850	22.08	23	0-1
				2595	38000	22.27	23	0-1
				2610	38150	22.29	23	0-1
			99	2580	37850	22.11	23	0-1
				2595	38000	22.40	23	0-1
				2610	38150	22.28	23	0-1
		50 RB	0	2580	37850	21.09	22	0-2
				2595	38000	21.25	22	0-2
				2610	38150	21.33	22	0-2
			25	2580	37850	21.04	22	0-2
				2595	38000	21.22	22	0-2
				2610	38150	21.34	22	0-2
			50	2580	37850	21.05	22	0-2
				2595	38000	21.15	22	0-2
				2610	38150	21.25	22	0-2
		100RB		2580	37850	21.12	22	0-2
				2595	38000	21.12	22	0-2
				2610	38150	21.29	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	2577.5	37825	23.03	24	0
				2595	38000	23.19	24	0
				2612.5	38175	23.22	24	0
			36	2577.5	37825	23.02	24	0
				2595	38000	23.10	24	0
				2612.5	38175	23.27	24	0
			74	2577.5	37825	22.99	24	0
				2595	38000	23.15	24	0
				2612.5	38175	23.16	24	0
		36 RB	0	2577.5	37825	21.97	23	0-1
				2595	38000	22.24	23	0-1
				2612.5	38175	22.26	23	0-1
			18	2577.5	37825	22.09	23	0-1
				2595	38000	22.18	23	0-1
				2612.5	38175	22.31	23	0-1
			37	2577.5	37825	22.02	23	0-1
				2595	38000	22.22	23	0-1
				2612.5	38175	22.29	23	0-1
		75RB		2577.5	37825	22.05	23	0-1
				2595	38000	22.07	23	0-1
				2612.5	38175	22.30	23	0-1
	16-QAM	1 RB	0	2577.5	37825	22.28	23	0-1
				2595	38000	22.43	23	0-1
				2612.5	38175	22.56	23	0-1
			36	2577.5	37825	22.11	23	0-1
				2595	38000	22.19	23	0-1
				2612.5	38175	22.41	23	0-1
			74	2577.5	37825	22.24	23	0-1
				2595	38000	22.29	23	0-1
				2612.5	38175	22.39	23	0-1
		36 RB	0	2577.5	37825	21.00	22	0-2
				2595	38000	21.22	22	0-2
				2612.5	38175	21.22	22	0-2
			18	2577.5	37825	21.11	22	0-2
				2595	38000	21.20	22	0-2
				2612.5	38175	21.33	22	0-2
			37	2577.5	37825	20.93	22	0-2
				2595	38000	21.19	22	0-2
				2612.5	38175	21.26	22	0-2
		75RB		2577.5	37825	21.07	22	0-2
				2595	38000	21.19	22	0-2
				2612.5	38175	21.31	22	0-2
	64-QAM	1 RB	0	2577.5	37825	22.22	23	0-1
				2595	38000	22.41	23	0-1
				2612.5	38175	22.53	23	0-1
			36	2577.5	37825	22.07	23	0-1
				2595	38000	22.15	23	0-1
				2612.5	38175	22.37	23	0-1
			74	2577.5	37825	22.23	23	0-1
				2595	38000	22.28	23	0-1
				2612.5	38175	22.34	23	0-1
		36 RB	0	2577.5	37825	20.95	22	0-2
				2595	38000	21.19	22	0-2
				2612.5	38175	21.18	22	0-2
			18	2577.5	37825	21.10	22	0-2
				2595	38000	21.19	22	0-2
				2612.5	38175	21.29	22	0-2
			37	2577.5	37825	20.89	22	0-2
				2595	38000	21.18	22	0-2
				2612.5	38175	21.24	22	0-2
		75RB		2577.5	37825	21.05	22	0-2
				2595	38000	21.15	22	0-2
				2612.5	38175	21.27	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2575	37800	22.93	24	0
				2595	38000	23.11	24	0
				2615	38200	23.17	24	0
			25	2575	37800	22.92	24	0
				2595	38000	23.00	24	0
				2615	38200	23.13	24	0
			49	2575	37800	22.90	24	0
				2595	38000	23.15	24	0
				2615	38200	23.29	24	0
		25 RB	0	2575	37800	21.97	23	0-1
				2595	38000	22.12	23	0-1
				2615	38200	22.36	23	0-1
			12	2575	37800	22.02	23	0-1
				2595	38000	22.16	23	0-1
				2615	38200	22.29	23	0-1
			25	2575	37800	21.94	23	0-1
				2595	38000	22.18	23	0-1
				2615	38200	22.36	23	0-1
		50RB		2575	37800	22.03	23	0-1
				2595	38000	22.09	23	0-1
				2615	38200	22.30	23	0-1
	16-QAM	1 RB	0	2575	37800	22.16	23	0-1
				2595	38000	22.43	23	0-1
				2615	38200	22.58	23	0-1
			25	2575	37800	22.25	23	0-1
				2595	38000	22.26	23	0-1
				2615	38200	22.51	23	0-1
			49	2575	37800	22.16	23	0-1
				2595	38000	22.26	23	0-1
				2615	38200	22.50	23	0-1
		25 RB	0	2575	37800	21.06	22	0-2
				2595	38000	21.21	22	0-2
				2615	38200	21.40	22	0-2
			12	2575	37800	21.06	22	0-2
				2595	38000	21.19	22	0-2
				2615	38200	21.34	22	0-2
			25	2575	37800	20.98	22	0-2
				2595	38000	21.26	22	0-2
				2615	38200	21.39	22	0-2
		50RB		2575	37800	21.05	22	0-2
				2595	38000	21.10	22	0-2
				2615	38200	21.29	22	0-2
	64-QAM	1 RB	0	2575	37800	22.10	23	0-1
				2595	38000	22.41	23	0-1
				2615	38200	22.55	23	0-1
			25	2575	37800	22.21	23	0-1
				2595	38000	22.22	23	0-1
				2615	38200	22.47	23	0-1
			49	2575	37800	22.15	23	0-1
				2595	38000	22.25	23	0-1
				2615	38200	22.45	23	0-1
		25 RB	0	2575	37800	21.01	22	0-2
				2595	38000	21.18	22	0-2
				2615	38200	21.36	22	0-2
			12	2575	37800	21.05	22	0-2
				2595	38000	21.18	22	0-2
				2615	38200	21.30	22	0-2
			25	2575	37800	20.94	22	0-2
				2595	38000	21.25	22	0-2
				2615	38200	21.37	22	0-2
		50RB		2575	37800	21.03	22	0-2
				2595	38000	21.06	22	0-2
				2615	38200	21.25	22	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	2572.5	37775	22.88	24	0
				2595	38000	23.09	24	0
				2617.5	38225	23.19	24	0
			12	2572.5	37775	22.81	24	0
				2595	38000	22.98	24	0
				2617.5	38225	23.25	24	0
			24	2572.5	37775	22.89	24	0
				2595	38000	23.09	24	0
				2617.5	38225	23.09	24	0
		12 RB	0	2572.5	37775	21.89	23	0-1
				2595	38000	22.13	23	0-1
				2617.5	38225	22.32	23	0-1
			6	2572.5	37775	21.92	23	0-1
				2595	38000	22.15	23	0-1
				2617.5	38225	22.40	23	0-1
			13	2572.5	37775	21.88	23	0-1
				2595	38000	22.09	23	0-1
				2617.5	38225	22.36	23	0-1
		25RB		2572.5	37775	21.95	23	0-1
				2595	38000	22.09	23	0-1
				2617.5	38225	22.33	23	0-1
	16-QAM	1 RB	0	2572.5	37775	22.12	23	0-1
				2595	38000	22.27	23	0-1
				2617.5	38225	22.43	23	0-1
			12	2572.5	37775	22.08	23	0-1
				2595	38000	22.24	23	0-1
				2617.5	38225	22.51	23	0-1
			24	2572.5	37775	22.11	23	0-1
				2595	38000	22.32	23	0-1
				2617.5	38225	22.53	23	0-1
		12 RB	0	2572.5	37775	20.96	22	0-2
				2595	38000	21.10	22	0-2
				2617.5	38225	21.30	22	0-2
			6	2572.5	37775	21.06	22	0-2
				2595	38000	21.22	22	0-2
				2617.5	38225	21.42	22	0-2
			13	2572.5	37775	20.95	22	0-2
				2595	38000	21.11	22	0-2
				2617.5	38225	21.31	22	0-2
		25RB		2572.5	37775	21.00	22	0-2
				2595	38000	21.13	22	0-2
				2617.5	38225	21.44	22	0-2
	64-QAM	1 RB	0	2572.5	37775	22.06	23	0-1
				2595	38000	22.25	23	0-1
				2617.5	38225	22.40	23	0-1
			12	2572.5	37775	22.04	23	0-1
				2595	38000	22.20	23	0-1
				2617.5	38225	22.47	23	0-1
			24	2572.5	37775	22.10	23	0-1
				2595	38000	22.31	23	0-1
				2617.5	38225	22.48	23	0-1
		12 RB	0	2572.5	37775	20.91	22	0-2
				2595	38000	21.07	22	0-2
				2617.5	38225	21.26	22	0-2
			6	2572.5	37775	21.05	22	0-2
				2595	38000	21.21	22	0-2
				2617.5	38225	21.38	22	0-2
			13	2572.5	37775	20.91	22	0-2
				2595	38000	21.10	22	0-2
				2617.5	38225	21.29	22	0-2
		25RB		2572.5	37775	20.98	22	0-2
				2595	38000	21.09	22	0-2
				2617.5	38225	21.40	22	0-2

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LTE TDD Band 41 - conducted power table:

TDD Band 41								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	2506	39750	23.97	24	0
				2549.5	40185	23.99	24	0
				2593	40620	23.85	24	0
				2636.5	41055	23.86	24	0
				2680	41490	23.28	24	0
				2506	39750	23.78	24	0
			50	2549.5	40185	23.62	24	0
				2593	40620	23.61	24	0
				2636.5	41055	23.57	24	0
				2680	41490	23.38	24	0
				2506	39750	23.67	24	0
				2549.5	40185	23.49	24	0
		99	2593	40620	23.60	24	0	
			2636.5	41055	23.58	24	0	
			2680	41490	22.39	24	0	
			2506	39750	22.92	23	-0.1	
			2549.5	40185	22.88	23	-0.1	
			2593	40620	22.68	23	-0.1	
		50 RB	0	2636.5	41055	22.74	23	-0.1
				2680	41490	22.45	23	-0.1
				2506	39750	22.90	23	-0.1
				2549.5	40185	22.88	23	-0.1
				2593	40620	22.58	23	-0.1
				2636.5	41055	22.74	23	-0.1
			25	2680	41490	22.73	23	-0.1
				2506	39750	22.73	23	-0.1
				2549.5	40185	22.64	23	-0.1
				2593	40620	22.58	23	-0.1
				2636.5	41055	22.63	23	-0.1
				2680	41490	22.60	23	-0.1
		100RB	0	2506	39750	22.88	23	-0.1
				2549.5	40185	22.74	23	-0.1
				2593	40620	22.68	23	-0.1
				2636.5	41055	22.75	23	-0.1
				2680	41490	22.68	23	-0.1
				2506	39750	22.97	23	-0.1
	50		2549.5	40185	22.99	23	-0.1	
			2593	40620	22.85	23	-0.1	
			2636.5	41055	22.85	23	-0.1	
			2680	41490	22.28	23	-0.1	
			2506	39750	22.78	23	-0.1	
			2549.5	40185	22.62	23	-0.1	
	16-QAM	1 RB	0	2593	40620	22.85	23	-0.1
				2636.5	41055	22.85	23	-0.1
				2680	41490	22.28	23	-0.1
				2506	39750	22.78	23	-0.1
				2549.5	40185	22.62	23	-0.1
				2593	40620	22.61	23	-0.1
			50	2636.5	41055	22.57	23	-0.1
				2680	41490	22.38	23	-0.1
				2506	39750	22.67	23	-0.1
				2549.5	40185	22.49	23	-0.1
				2593	40620	22.60	23	-0.1
				2636.5	41055	22.58	23	-0.1
		50 RB	0	2680	41490	21.39	23	-0.1
				2506	39750	21.82	22	-0.2
				2549.5	40185	21.88	22	-0.2
				2593	40620	21.68	22	-0.2
				2636.5	41055	21.74	22	-0.2
				2680	41490	21.45	22	-0.2
			25	2506	39750	21.90	22	-0.2
				2549.5	40185	21.74	22	-0.2
				2593	40620	21.74	22	-0.2
				2636.5	41055	21.76	22	-0.2
				2680	41490	21.58	22	-0.2
				2506	39750	21.73	22	-0.2
		100RB	0	2549.5	40185	21.64	22	-0.2
				2593	40620	21.58	22	-0.2
				2636.5	41055	21.63	22	-0.2
				2680	41490	21.60	22	-0.2
				2506	39750	21.88	22	-0.2
				2549.5	40185	21.74	22	-0.2
			25	2593	40620	21.68	22	-0.2
				2636.5	41055	21.75	22	-0.2
				2680	41490	21.68	22	-0.2
				2506	39750	22.91	23	-0.1
				2549.5	40185	22.97	23	-0.1
				2593	40620	22.82	23	-0.1
	1 RB	0	2636.5	41055	22.81	23	-0.1	
			2680	41490	22.24	23	-0.1	
			2506	39750	22.74	23	-0.1	
			2549.5	40185	22.61	23	-0.1	
			2593	40620	22.60	23	-0.1	
			2636.5	41055	22.52	23	-0.1	
		50	2680	41490	22.33	23	-0.1	
			2506	39750	22.64	23	-0.1	
			2549.5	40185	22.45	23	-0.1	
			2593	40620	22.59	23	-0.1	
			2636.5	41055	22.57	23	-0.1	
			2680	41490	21.35	23	-0.1	
	50 RB	0	2506	39750	21.88	22	-0.2	
			2549.5	40185	21.87	22	-0.2	
			2593	40620	21.66	22	-0.2	
			2636.5	41055	21.72	22	-0.2	
			2680	41490	21.41	22	-0.2	
			2506	39750	21.86	22	-0.2	
		25	2549.5	40185	21.70	22	-0.2	
			2593	40620	21.70	22	-0.2	
			2636.5	41055	21.75	22	-0.2	
			2680	41490	21.56	22	-0.2	
			2506	39750	21.71	22	-0.2	
			2549.5	40185	21.60	22	-0.2	
	100RB	0	2593	40620	21.54	22	-0.2	
			2636.5	41055	21.59	22	-0.2	
			2680	41490	21.56	22	-0.2	
2506			39750	21.87	22	-0.2		
2549.5			40185	21.72	22	-0.2		
2593			40620	21.66	22	-0.2		
25		2636.5	41055	21.71	22	-0.2		
		2680	41490	21.64	22	-0.2		

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	2503.5	39725	23.83	24	0
				2548.3	40173	23.71	24	0
				2593	40620	23.56	24	0
				2637.8	41068	23.52	24	0
				2682.5	41515	23.53	24	0
				2503.5	39725	23.61	24	0
			36	2548.3	40173	23.44	24	0
				2593	40620	23.41	24	0
				2637.8	41068	23.41	24	0
				2682.5	41515	23.32	24	0
				2503.5	39725	23.54	24	0
				2548.3	40173	23.41	24	0
			74	2593	40620	23.38	24	0
				2637.8	41068	23.41	24	0
				2682.5	41515	23.19	24	0
				2503.5	39725	22.69	23	-0.1
				2548.3	40173	22.61	23	-0.1
				2593	40620	22.47	23	-0.1
		36 RB	0	2637.8	41068	22.58	23	-0.1
				2682.5	41515	22.51	23	-0.1
				2503.5	39725	22.63	23	-0.1
				2548.3	40173	22.54	23	-0.1
				2593	40620	22.45	23	-0.1
				2637.8	41068	22.47	23	-0.1
			18	2682.5	41515	22.41	23	-0.1
				2503.5	39725	22.61	23	-0.1
				2548.3	40173	22.42	23	-0.1
				2593	40620	22.44	23	-0.1
				2637.8	41068	22.43	23	-0.1
				2682.5	41515	22.27	23	-0.1
			37	2503.5	39725	22.70	23	-0.1
				2548.3	40173	22.52	23	-0.1
				2593	40620	22.42	23	-0.1
				2637.8	41068	22.44	23	-0.1
				2682.5	41515	22.45	23	-0.1
				2503.5	39725	22.60	23	-0.1
		75RB	0	2548.3	40173	22.52	23	-0.1
				2593	40620	22.42	23	-0.1
				2637.8	41068	22.44	23	-0.1
				2682.5	41515	22.45	23	-0.1
				2503.5	39725	22.60	23	-0.1
				2548.3	40173	22.35	23	-0.1
		1 RB	0	2593	40620	22.99	23	-0.1
				2637.8	41068	22.64	23	-0.1
				2682.5	41515	22.36	23	-0.1
				2503.5	39725	22.36	23	-0.1
				2548.3	40173	22.14	23	-0.1
				2593	40620	22.13	23	-0.1
			36	2637.8	41068	22.12	23	-0.1
				2682.5	41515	22.06	23	-0.1
				2503.5	39725	22.33	23	-0.1
				2548.3	40173	22.10	23	-0.1
				2593	40620	22.10	23	-0.1
				2637.8	41068	22.01	23	-0.1
			74	2682.5	41515	21.89	23	-0.1
				2503.5	39725	21.69	22	-0.2
				2548.3	40173	21.54	22	-0.2
				2593	40620	21.52	22	-0.2
				2637.8	41068	21.56	22	-0.2
				2682.5	41515	21.45	22	-0.2
		36 RB	0	2503.5	39725	21.62	22	-0.2
				2548.3	40173	21.59	22	-0.2
				2593	40620	21.51	22	-0.2
				2637.8	41068	21.50	22	-0.2
				2682.5	41515	21.34	22	-0.2
				2503.5	39725	21.55	22	-0.2
			18	2548.3	40173	21.50	22	-0.2
				2593	40620	21.36	22	-0.2
				2637.8	41068	21.37	22	-0.2
				2682.5	41515	21.31	22	-0.2
				2503.5	39725	21.68	22	-0.2
				2548.3	40173	21.61	22	-0.2
		75RB	0	2593	40620	21.52	22	-0.2
				2637.8	41068	21.52	22	-0.2
				2682.5	41515	21.47	22	-0.2
				2503.5	39725	22.54	23	-0.1
				2548.3	40173	22.33	23	-0.1
				2593	40620	22.96	23	-0.1
		1 RB	0	2637.8	41068	22.60	23	-0.1
				2682.5	41515	22.32	23	-0.1
				2503.5	39725	22.32	23	-0.1
				2548.3	40173	22.13	23	-0.1
				2593	40620	22.12	23	-0.1
				2637.8	41068	22.07	23	-0.1
			36	2682.5	41515	22.01	23	-0.1
				2503.5	39725	22.30	23	-0.1
				2548.3	40173	22.06	23	-0.1
				2593	40620	22.09	23	-0.1
				2637.8	41068	22.00	23	-0.1
				2682.5	41515	21.85	23	-0.1
		36 RB	0	2503.5	39725	21.65	22	-0.2
				2548.3	40173	21.53	22	-0.2
				2593	40620	21.50	22	-0.2
				2637.8	41068	21.54	22	-0.2
				2682.5	41515	21.41	22	-0.2
				2503.5	39725	21.58	22	-0.2
			18	2548.3	40173	21.55	22	-0.2
				2593	40620	21.47	22	-0.2
				2637.8	41068	21.49	22	-0.2
				2682.5	41515	21.32	22	-0.2
				2503.5	39725	21.53	22	-0.2
				2548.3	40173	21.46	22	-0.2
		75RB	0	2593	40620	21.32	22	-0.2
				2637.8	41068	21.33	22	-0.2
				2682.5	41515	21.27	22	-0.2
				2503.5	39725	21.67	22	-0.2
				2548.3	40173	21.59	22	-0.2
				2593	40620	21.50	22	-0.2
			18	2637.8	41068	21.48	22	-0.2
				2682.5	41515	21.43	22	-0.2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2501	39700	23.63	24	0
				2547	40160	23.84	24	0
				2593	40620	23.71	24	0
				2639	41080	23.66	24	0
				2685	41540	23.82	24	0
			25	2501	39700	23.47	24	0
				2547	40160	23.33	24	0
				2593	40620	23.28	24	0
				2639	41080	23.54	24	0
				2685	41540	23.15	24	0
		49	25	2501	39700	23.40	24	0
				2547	40160	23.31	24	0
				2593	40620	23.19	24	0
				2639	41080	23.47	24	0
				2685	41540	23.54	24	0
			0	2501	39700	22.67	23	-0.1
				2547	40160	22.42	23	-0.1
				2593	40620	22.39	23	-0.1
				2639	41080	22.42	23	-0.1
				2685	41540	22.50	23	-0.1
		25 RB	12	2501	39700	22.57	23	-0.1
				2547	40160	22.43	23	-0.1
				2593	40620	22.42	23	-0.1
				2639	41080	22.40	23	-0.1
				2685	41540	22.28	23	-0.1
			25	2501	39700	22.46	23	-0.1
				2547	40160	22.38	23	-0.1
				2593	40620	22.27	23	-0.1
				2639	41080	22.31	23	-0.1
				2685	41540	22.41	23	-0.1
	16-QAM	50RB	0	2501	39700	22.62	23	-0.1
				2547	40160	22.47	23	-0.1
				2593	40620	22.36	23	-0.1
				2639	41080	22.40	23	-0.1
				2685	41540	22.39	23	-0.1
		1 RB	0	2501	39700	22.87	23	-0.1
				2547	40160	22.71	23	-0.1
				2593	40620	22.72	23	-0.1
				2639	41080	22.70	23	-0.1
				2685	41540	22.98	23	-0.1
			25	2501	39700	22.79	23	-0.1
				2547	40160	22.67	23	-0.1
				2593	40620	22.57	23	-0.1
				2639	41080	22.53	23	-0.1
				2685	41540	22.42	23	-0.1
		25 RB	12	2501	39700	22.65	23	-0.1
				2547	40160	22.99	23	-0.1
				2593	40620	22.54	23	-0.1
				2639	41080	22.51	23	-0.1
				2685	41540	22.79	23	-0.1
			25	2501	39700	21.61	22	-0.2
				2547	40160	21.49	22	-0.2
				2593	40620	21.45	22	-0.2
				2639	41080	21.41	22	-0.2
				2685	41540	21.54	22	-0.2
	64-QAM	50RB	0	2501	39700	21.68	22	-0.2
				2547	40160	21.42	22	-0.2
				2593	40620	21.36	22	-0.2
				2639	41080	21.48	22	-0.2
				2685	41540	21.43	22	-0.2
		1 RB	0	2501	39700	22.81	23	-0.1
				2547	40160	22.69	23	-0.1
				2593	40620	22.69	23	-0.1
				2639	41080	22.66	23	-0.1
				2685	41540	22.94	23	-0.1
			25	2501	39700	22.75	23	-0.1
				2547	40160	22.66	23	-0.1
				2593	40620	22.56	23	-0.1
				2639	41080	22.48	23	-0.1
				2685	41540	22.37	23	-0.1
		25 RB	12	2501	39700	22.62	23	-0.1
				2547	40160	22.95	23	-0.1
				2593	40620	22.53	23	-0.1
				2639	41080	22.50	23	-0.1
				2685	41540	22.75	23	-0.1
			25	2501	39700	21.57	22	-0.2
				2547	40160	21.48	22	-0.2
				2593	40620	21.43	22	-0.2
				2639	41080	21.39	22	-0.2
				2685	41540	21.50	22	-0.2
	50RB	0	12	2501	39700	21.64	22	-0.2
				2547	40160	21.38	22	-0.2
				2593	40620	21.34	22	-0.2
				2639	41080	21.45	22	-0.2
				2685	41540	21.31	22	-0.2
		25	12	2501	39700	21.59	22	-0.2
				2547	40160	21.33	22	-0.2
				2593	40620	21.24	22	-0.2
				2639	41080	21.27	22	-0.2
				2685	41540	21.32	22	-0.2
		50RB	0	2501	39700	21.53	22	-0.2
				2547	40160	21.40	22	-0.2
				2593	40620	21.34	22	-0.2
				2639	41080	21.44	22	-0.2
				2685	41540	21.39	22	-0.2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	2498.5	39675	23.84	24	0
				2547.8	40148	23.66	24	0
				2593	40620	23.61	24	0
				2640.3	41093	23.58	24	0
				2687.5	41565	23.72	24	0
				2498.5	39675	23.80	24	0
			12	2547.8	40148	23.60	24	0
				2593	40620	23.58	24	0
				2640.3	41093	23.63	24	0
				2687.5	41565	23.42	24	0
				2498.5	39675	23.76	24	0
				2547.8	40148	23.62	24	0
			24	2593	40620	23.48	24	0
				2640.3	41093	23.45	24	0
				2687.5	41565	23.48	24	0
				2498.5	39675	22.89	23	-0.1
				2547.8	40148	22.71	23	-0.1
				2593	40620	22.70	23	-0.1
		12 RB	0	2640.3	41093	22.69	23	-0.1
				2687.5	41565	22.62	23	-0.1
				2498.5	39675	22.82	23	-0.1
				2547.8	40148	22.70	23	-0.1
				2593	40620	22.62	23	-0.1
				2640.3	41093	22.58	23	-0.1
			6	2687.5	41565	22.43	23	-0.1
				2498.5	39675	22.92	23	-0.1
				2547.8	40148	22.67	23	-0.1
				2593	40620	22.72	23	-0.1
				2640.3	41093	22.69	23	-0.1
				2687.5	41565	22.62	23	-0.1
			13	2498.5	39675	22.82	23	-0.1
				2547.8	40148	22.72	23	-0.1
				2593	40620	22.67	23	-0.1
				2640.3	41093	22.64	23	-0.1
				2687.5	41565	22.46	23	-0.1
				2498.5	39675	22.91	23	-0.1
		25RB	0	2547.8	40148	22.90	23	-0.1
				2593	40620	22.95	23	-0.1
				2640.3	41093	22.78	23	-0.1
				2687.5	41565	22.74	23	-0.1
				2498.5	39675	22.91	23	-0.1
				2547.8	40148	22.94	23	-0.1
		1 RB	12	2593	40620	22.82	23	-0.1
				2640.3	41093	22.82	23	-0.1
				2687.5	41565	22.98	23	-0.1
				2498.5	39675	22.93	23	-0.1
				2547.8	40148	22.88	23	-0.1
				2593	40620	22.73	23	-0.1
			24	2640.3	41093	22.79	23	-0.1
				2687.5	41565	22.65	23	-0.1
				2498.5	39675	21.97	22	-0.2
				2547.8	40148	21.78	22	-0.2
				2593	40620	21.70	22	-0.2
				2640.3	41093	21.69	22	-0.2
		12 RB	0	2687.5	41565	21.52	22	-0.2
				2498.5	39675	21.94	22	-0.2
				2547.8	40148	21.77	22	-0.2
				2593	40620	21.69	22	-0.2
				2640.3	41093	21.68	22	-0.2
				2687.5	41565	21.62	22	-0.2
			6	2498.5	39675	21.84	22	-0.2
				2547.8	40148	21.72	22	-0.2
				2593	40620	21.73	22	-0.2
				2640.3	41093	21.67	22	-0.2
				2687.5	41565	21.53	22	-0.2
				2498.5	39675	21.86	22	-0.2
		25RB	0	2547.8	40148	21.78	22	-0.2
				2593	40620	21.75	22	-0.2
				2640.3	41093	21.76	22	-0.2
				2687.5	41565	21.58	22	-0.2
				2498.5	39675	22.85	23	-0.1
				2547.8	40148	22.88	23	-0.1
	16-QAM	1 RB	0	2593	40620	22.92	23	-0.1
				2640.3	41093	22.74	23	-0.1
				2687.5	41565	22.70	23	-0.1
				2498.5	39675	22.87	23	-0.1
				2547.8	40148	22.93	23	-0.1
				2593	40620	22.81	23	-0.1
			12	2640.3	41093	22.77	23	-0.1
				2687.5	41565	22.93	23	-0.1
				2498.5	39675	22.90	23	-0.1
				2547.8	40148	22.84	23	-0.1
				2593	40620	22.72	23	-0.1
				2640.3	41093	22.78	23	-0.1
			24	2687.5	41565	22.61	23	-0.1
				2498.5	39675	21.93	22	-0.2
				2547.8	40148	21.77	22	-0.2
				2593	40620	21.68	22	-0.2
				2640.3	41093	21.67	22	-0.2
				2687.5	41565	21.48	22	-0.2
		12 RB	0	2498.5	39675	21.90	22	-0.2
				2547.8	40148	21.73	22	-0.2
				2593	40620	21.65	22	-0.2
				2640.3	41093	21.67	22	-0.2
				2687.5	41565	21.60	22	-0.2
				2498.5	39675	21.82	22	-0.2
			6	2547.8	40148	21.68	22	-0.2
				2593	40620	21.69	22	-0.2
				2640.3	41093	21.63	22	-0.2
				2687.5	41565	21.49	22	-0.2
				2498.5	39675	21.85	22	-0.2
				2547.8	40148	21.76	22	-0.2
		25RB	0	2593	40620	21.73	22	-0.2
				2640.3	41093	21.72	22	-0.2
				2687.5	41565	21.54	22	-0.2

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LTE FDD Band 66 - conducted power table:

FDD Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1720	132072	24.13	24.5	0
				1745	132322	24.06	24.5	0
				1770	132572	24.14	24.5	0
			50	1720	132072	23.85	24.5	0
				1745	132322	23.80	24.5	0
				1770	132572	23.90	24.5	0
			99	1720	132072	23.77	24.5	0
				1745	132322	23.84	24.5	0
				1770	132572	23.79	24.5	0
		50 RB	0	1720	132072	22.96	23.5	0-1
				1745	132322	22.99	23.5	0-1
				1770	132572	22.97	23.5	0-1
			25	1720	132072	22.97	23.5	0-1
				1745	132322	22.93	23.5	0-1
				1770	132572	22.87	23.5	0-1
			50	1720	132072	22.92	23.5	0-1
				1745	132322	22.85	23.5	0-1
				1770	132572	22.82	23.5	0-1
		100RB		1720	132072	23.01	23.5	0-1
				1745	132322	22.97	23.5	0-1
				1770	132572	22.87	23.5	0-1
	16-QAM	1 RB	0	1720	132072	23.13	23.5	0-1
				1745	132322	23.19	23.5	0-1
				1770	132572	23.22	23.5	0-1
			50	1720	132072	22.73	23.5	0-1
				1745	132322	23.34	23.5	0-1
				1770	132572	22.81	23.5	0-1
			99	1720	132072	23.14	23.5	0-1
				1745	132322	23.26	23.5	0-1
				1770	132572	23.20	23.5	0-1
		50 RB	0	1720	132072	21.95	22.5	0-2
				1745	132322	22.11	22.5	0-2
				1770	132572	22.05	22.5	0-2
			25	1720	132072	21.92	22.5	0-2
				1745	132322	21.92	22.5	0-2
				1770	132572	21.85	22.5	0-2
			50	1720	132072	21.95	22.5	0-2
				1745	132322	21.89	22.5	0-2
				1770	132572	21.88	22.5	0-2
		100RB		1720	132072	21.90	22.5	0-2
				1745	132322	21.93	22.5	0-2
				1770	132572	21.96	22.5	0-2
	64-QAM	1 RB	0	1720	132072	23.07	23.5	0-1
				1745	132322	23.17	23.5	0-1
				1770	132572	23.19	23.5	0-1
			50	1720	132072	22.69	23.5	0-1
				1745	132322	23.30	23.5	0-1
				1770	132572	22.77	23.5	0-1
			99	1720	132072	23.13	23.5	0-1
				1745	132322	23.25	23.5	0-1
				1770	132572	23.15	23.5	0-1
		50 RB	0	1720	132072	21.90	22.5	0-2
				1745	132322	22.08	22.5	0-2
				1770	132572	22.01	22.5	0-2
			25	1720	132072	21.91	22.5	0-2
				1745	132322	21.91	22.5	0-2
				1770	132572	21.81	22.5	0-2
			50	1720	132072	21.91	22.5	0-2
				1745	132322	21.88	22.5	0-2
				1770	132572	21.86	22.5	0-2
		100RB		1720	132072	21.88	22.5	0-2
				1745	132322	21.89	22.5	0-2
				1770	132572	21.92	22.5	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1717.5	132047	23.96	24.5	0
				1745	132322	24.06	24.5	0
				1772.5	132597	24.13	24.5	0
			36	1717.5	132047	23.77	24.5	0
				1745	132322	23.89	24.5	0
				1772.5	132597	23.82	24.5	0
			74	1717.5	132047	23.83	24.5	0
				1745	132322	23.89	24.5	0
				1772.5	132597	23.79	24.5	0
		36 RB	0	1717.5	132047	22.88	23.5	0-1
				1745	132322	23.00	23.5	0-1
				1772.5	132597	22.90	23.5	0-1
			18	1717.5	132047	22.81	23.5	0-1
				1745	132322	22.89	23.5	0-1
				1772.5	132597	22.85	23.5	0-1
			37	1717.5	132047	22.86	23.5	0-1
				1745	132322	22.84	23.5	0-1
				1772.5	132597	22.79	23.5	0-1
		75RB		1717.5	132047	22.79	23.5	0-1
				1745	132322	22.88	23.5	0-1
				1772.5	132597	22.87	23.5	0-1
	16-QAM	1 RB	0	1717.5	132047	23.45	23.5	0-1
				1745	132322	23.49	23.5	0-1
				1772.5	132597	23.42	23.5	0-1
			36	1717.5	132047	23.27	23.5	0-1
				1745	132322	23.05	23.5	0-1
				1772.5	132597	23.27	23.5	0-1
			74	1717.5	132047	23.40	23.5	0-1
				1745	132322	23.14	23.5	0-1
				1772.5	132597	23.26	23.5	0-1
		36 RB	0	1717.5	132047	21.87	22.5	0-2
				1745	132322	21.96	22.5	0-2
				1772.5	132597	21.96	22.5	0-2
			18	1717.5	132047	21.97	22.5	0-2
				1745	132322	21.90	22.5	0-2
				1772.5	132597	21.86	22.5	0-2
			37	1717.5	132047	21.88	22.5	0-2
				1745	132322	21.85	22.5	0-2
				1772.5	132597	21.76	22.5	0-2
		75RB		1717.5	132047	21.78	22.5	0-2
				1745	132322	21.99	22.5	0-2
				1772.5	132597	21.85	22.5	0-2
	64-QAM	1 RB	0	1717.5	132047	23.45	23.5	0-1
				1745	132322	23.49	23.5	0-1
				1772.5	132597	23.42	23.5	0-1
			36	1717.5	132047	23.27	23.5	0-1
				1745	132322	23.05	23.5	0-1
				1772.5	132597	23.27	23.5	0-1
			74	1717.5	132047	23.40	23.5	0-1
				1745	132322	23.14	23.5	0-1
				1772.5	132597	23.26	23.5	0-1
		36 RB	0	1717.5	132047	21.87	22.5	0-2
				1745	132322	21.96	22.5	0-2
				1772.5	132597	21.96	22.5	0-2
			18	1717.5	132047	21.97	22.5	0-2
				1745	132322	21.90	22.5	0-2
				1772.5	132597	21.86	22.5	0-2
			37	1717.5	132047	21.88	22.5	0-2
				1745	132322	21.85	22.5	0-2
				1772.5	132597	21.76	22.5	0-2
		75RB		1717.5	132047	21.78	22.5	0-2
				1745	132322	21.99	22.5	0-2
				1772.5	132597	21.85	22.5	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1715	132022	23.86	24.5	0
				1745	132322	23.99	24.5	0
				1775	132622	23.83	24.5	0
			25	1715	132022	23.76	24.5	0
				1745	132322	23.89	24.5	0
				1775	132622	23.75	24.5	0
			49	1715	132022	23.86	24.5	0
				1745	132322	23.71	24.5	0
				1775	132622	23.74	24.5	0
		25 RB	0	1715	132022	22.89	23.5	0-1
				1745	132322	22.97	23.5	0-1
				1775	132622	22.87	23.5	0-1
			12	1715	132022	22.84	23.5	0-1
				1745	132322	22.94	23.5	0-1
				1775	132622	22.82	23.5	0-1
			25	1715	132022	22.85	23.5	0-1
				1745	132322	22.82	23.5	0-1
				1775	132622	22.79	23.5	0-1
		50RB		1715	132022	22.84	23.5	0-1
				1745	132322	22.89	23.5	0-1
				1775	132622	22.82	23.5	0-1
	16-QAM	1 RB	0	1715	132022	23.15	23.5	0-1
				1745	132322	23.41	23.5	0-1
				1775	132622	23.44	23.5	0-1
			25	1715	132022	23.29	23.5	0-1
				1745	132322	23.16	23.5	0-1
				1775	132622	23.10	23.5	0-1
			49	1715	132022	23.02	23.5	0-1
				1745	132322	22.82	23.5	0-1
				1775	132622	22.99	23.5	0-1
		25 RB	0	1715	132022	21.86	22.5	0-2
				1745	132322	21.98	22.5	0-2
				1775	132622	21.95	22.5	0-2
			12	1715	132022	21.83	22.5	0-2
				1745	132322	21.98	22.5	0-2
				1775	132622	21.85	22.5	0-2
			25	1715	132022	21.77	22.5	0-2
				1745	132322	21.81	22.5	0-2
				1775	132622	21.88	22.5	0-2
		50RB		1715	132022	21.87	22.5	0-2
				1745	132322	21.90	22.5	0-2
				1775	132622	21.85	22.5	0-2
	64-QAM	1 RB	0	1715	132022	23.39	23.5	0-1
				1745	132322	23.47	23.5	0-1
				1775	132622	23.39	23.5	0-1
			25	1715	132022	23.23	23.5	0-1
				1745	132322	23.01	23.5	0-1
				1775	132622	23.23	23.5	0-1
			49	1715	132022	23.39	23.5	0-1
				1745	132322	23.13	23.5	0-1
				1775	132622	23.21	23.5	0-1
		25 RB	0	1715	132022	21.82	22.5	0-2
				1745	132322	21.93	22.5	0-2
				1775	132622	21.92	22.5	0-2
			12	1715	132022	21.96	22.5	0-2
				1745	132322	21.89	22.5	0-2
				1775	132622	21.82	22.5	0-2
			25	1715	132022	21.84	22.5	0-2
				1745	132322	21.84	22.5	0-2
				1775	132622	21.74	22.5	0-2
		50RB		1715	132022	21.76	22.5	0-2
				1745	132322	21.95	22.5	0-2
				1775	132622	21.81	22.5	0-2

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BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1712.5	131997	23.83	24.5	0
				1745	132322	23.88	24.5	0
				1777.5	132647	23.80	24.5	0
			12	1712.5	131997	23.91	24.5	0
				1745	132322	23.80	24.5	0
				1777.5	132647	23.57	24.5	0
			24	1712.5	131997	23.81	24.5	0
				1745	132322	23.83	24.5	0
				1777.5	132647	23.58	24.5	0
		12 RB	0	1712.5	131997	22.80	23.5	0-1
				1745	132322	22.87	23.5	0-1
				1777.5	132647	22.75	23.5	0-1
			6	1712.5	131997	22.83	23.5	0-1
				1745	132322	22.92	23.5	0-1
				1777.5	132647	22.83	23.5	0-1
			13	1712.5	131997	22.75	23.5	0-1
				1745	132322	22.83	23.5	0-1
				1777.5	132647	22.79	23.5	0-1
		25RB		1712.5	131997	22.78	23.5	0-1
				1745	132322	22.86	23.5	0-1
				1777.5	132647	22.74	23.5	0-1
	16-QAM	1 RB	0	1712.5	131997	23.03	23.5	0-1
				1745	132322	23.42	23.5	0-1
				1777.5	132647	23.32	23.5	0-1
			12	1712.5	131997	23.14	23.5	0-1
				1745	132322	23.08	23.5	0-1
				1777.5	132647	22.66	23.5	0-1
			24	1712.5	131997	22.98	23.5	0-1
				1745	132322	22.98	23.5	0-1
				1777.5	132647	22.89	23.5	0-1
		12 RB	0	1712.5	131997	21.87	22.5	0-2
				1745	132322	21.85	22.5	0-2
				1777.5	132647	21.74	22.5	0-2
			6	1712.5	131997	21.82	22.5	0-2
				1745	132322	21.91	22.5	0-2
				1777.5	132647	21.80	22.5	0-2
			13	1712.5	131997	21.77	22.5	0-2
				1745	132322	21.89	22.5	0-2
				1777.5	132647	21.85	22.5	0-2
		25RB		1712.5	131997	21.86	22.5	0-2
				1745	132322	21.88	22.5	0-2
				1777.5	132647	21.78	22.5	0-2
	16-QAM	1 RB	0	1712.5	131997	22.97	23.5	0-1
				1745	132322	23.40	23.5	0-1
				1777.5	132647	23.29	23.5	0-1
			12	1712.5	131997	23.10	23.5	0-1
				1745	132322	23.04	23.5	0-1
				1777.5	132647	22.62	23.5	0-1
			24	1712.5	131997	22.97	23.5	0-1
				1745	132322	22.97	23.5	0-1
				1777.5	132647	22.84	23.5	0-1
		12 RB	0	1712.5	131997	21.82	22.5	0-2
				1745	132322	21.82	22.5	0-2
				1777.5	132647	21.70	22.5	0-2
			6	1712.5	131997	21.81	22.5	0-2
				1745	132322	21.90	22.5	0-2
				1777.5	132647	21.76	22.5	0-2
			13	1712.5	131997	21.73	22.5	0-2
				1745	132322	21.88	22.5	0-2
				1777.5	132647	21.83	22.5	0-2
		25RB		1712.5	131997	21.84	22.5	0-2
				1745	132322	21.84	22.5	0-2
				1777.5	132647	21.74	22.5	0-2

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3	QPSK	1 RB	0	1711.5	131987	23.90	24.5	0
				1745	132322	23.87	24.5	0
				1778.5	132657	24.03	24.5	0
			7	1711.5	131987	23.97	24.5	0
				1745	132322	23.86	24.5	0
				1778.5	132657	23.75	24.5	0
			14	1711.5	131987	23.85	24.5	0
				1745	132322	23.76	24.5	0
				1778.5	132657	23.74	24.5	0
		8 RB	0	1711.5	131987	22.85	23.5	0-1
				1745	132322	22.80	23.5	0-1
				1778.5	132657	22.78	23.5	0-1
			4	1711.5	131987	22.86	23.5	0-1
				1745	132322	22.82	23.5	0-1
				1778.5	132657	22.72	23.5	0-1
			7	1711.5	131987	22.81	23.5	0-1
				1745	132322	22.80	23.5	0-1
				1778.5	132657	22.74	23.5	0-1
		15RB		1711.5	131987	22.81	23.5	0-1
				1745	132322	22.79	23.5	0-1
				1778.5	132657	22.79	23.5	0-1
	16-QAM	1 RB	0	1711.5	131987	23.04	23.5	0-1
				1745	132322	23.04	23.5	0-1
				1778.5	132657	22.87	23.5	0-1
			7	1711.5	131987	23.02	23.5	0-1
				1745	132322	23.33	23.5	0-1
				1778.5	132657	22.99	23.5	0-1
			14	1711.5	131987	23.01	23.5	0-1
				1745	132322	22.86	23.5	0-1
				1778.5	132657	23.02	23.5	0-1
		8 RB	0	1711.5	131987	21.87	22.5	0-2
				1745	132322	21.95	22.5	0-2
				1778.5	132657	21.84	22.5	0-2
			4	1711.5	131987	21.93	22.5	0-2
				1745	132322	22.07	22.5	0-2
				1778.5	132657	21.67	22.5	0-2
			7	1711.5	131987	21.82	22.5	0-2
				1745	132322	21.96	22.5	0-2
				1778.5	132657	21.90	22.5	0-2
		15RB		1711.5	131987	21.88	22.5	0-2
				1745	132322	21.93	22.5	0-2
				1778.5	132657	21.66	22.5	0-2
	64-QAM	1 RB	0	1711.5	131987	22.98	23.5	0-1
				1745	132322	23.02	23.5	0-1
				1778.5	132657	22.84	23.5	0-1
			7	1711.5	131987	22.98	23.5	0-1
				1745	132322	23.29	23.5	0-1
				1778.5	132657	22.95	23.5	0-1
			14	1711.5	131987	23.00	23.5	0-1
				1745	132322	22.85	23.5	0-1
				1778.5	132657	22.97	23.5	0-1
		8 RB	0	1711.5	131987	21.82	22.5	0-2
				1745	132322	21.92	22.5	0-2
				1778.5	132657	21.80	22.5	0-2
			4	1711.5	131987	21.92	22.5	0-2
				1745	132322	22.06	22.5	0-2
				1778.5	132657	21.63	22.5	0-2
			7	1711.5	131987	21.78	22.5	0-2
				1745	132322	21.95	22.5	0-2
				1778.5	132657	21.88	22.5	0-2
		15RB		1711.5	131987	21.86	22.5	0-2
				1745	132322	21.89	22.5	0-2
				1778.5	132657	21.62	22.5	0-2

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1.4	QPSK	1 RB	0	1710.7	131979	23.65	24.5	0
				1745	132322	23.75	24.5	0
				1779.3	132665	23.60	24.5	0
			2	1710.7	131979	23.81	24.5	0
				1745	132322	23.83	24.5	0
				1779.3	132665	23.68	24.5	0
			5	1710.7	131979	23.66	24.5	0
				1745	132322	23.67	24.5	0
				1779.3	132665	23.65	24.5	0
		3 RB	0	1710.7	131979	23.80	24.5	0
				1745	132322	23.75	24.5	0
				1779.3	132665	23.71	24.5	0
			2	1710.7	131979	23.81	24.5	0
				1745	132322	23.91	24.5	0
				1779.3	132665	23.84	24.5	0
			3	1710.7	131979	23.70	24.5	0
				1745	132322	23.79	24.5	0
				1779.3	132665	23.70	24.5	0
		6RB		1710.7	131979	22.79	23.5	0-1
				1745	132322	22.74	23.5	0-1
				1779.3	132665	22.67	23.5	0-1
	16-QAM	1 RB	0	1710.7	131979	22.80	23.5	0-1
				1745	132322	22.66	23.5	0-1
				1779.3	132665	22.61	23.5	0-1
			2	1710.7	131979	23.15	23.5	0-1
				1745	132322	23.21	23.5	0-1
				1779.3	132665	22.93	23.5	0-1
			5	1710.7	131979	22.71	23.5	0-1
				1745	132322	22.91	23.5	0-1
				1779.3	132665	22.78	23.5	0-1
		3 RB	0	1710.7	131979	22.83	23.5	0-1
				1745	132322	22.85	23.5	0-1
				1779.3	132665	22.77	23.5	0-1
			2	1710.7	131979	22.91	23.5	0-1
				1745	132322	22.84	23.5	0-1
				1779.3	132665	22.73	23.5	0-1
			3	1710.7	131979	22.66	23.5	0-1
				1745	132322	22.80	23.5	0-1
				1779.3	132665	22.77	23.5	0-1
		6RB		1710.7	131979	21.73	22.5	0-2
				1745	132322	21.90	22.5	0-2
				1779.3	132665	21.84	22.5	0-2
	64-QAM	1 RB	0	1710.7	131979	22.74	23.5	0-1
				1745	132322	22.64	23.5	0-1
				1779.3	132665	22.58	23.5	0-1
			2	1710.7	131979	23.11	23.5	0-1
				1745	132322	23.17	23.5	0-1
				1779.3	132665	22.89	23.5	0-1
			5	1710.7	131979	22.70	23.5	0-1
				1745	132322	22.90	23.5	0-1
				1779.3	132665	22.73	23.5	0-1
		3 RB	0	1710.7	131979	22.78	23.5	0-1
				1745	132322	22.82	23.5	0-1
				1779.3	132665	22.73	23.5	0-1
			2	1710.7	131979	22.90	23.5	0-1
				1745	132322	22.83	23.5	0-1
				1779.3	132665	22.69	23.5	0-1
			3	1710.7	131979	22.62	23.5	0-1
				1745	132322	22.79	23.5	0-1
				1779.3	132665	22.75	23.5	0-1
		6RB		1710.7	131979	21.71	22.5	0-2
				1745	132322	21.86	22.5	0-2
				1779.3	132665	21.80	22.5	0-2

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12. Justification of held to ear modes tested

I. Analysis of RF air interface technologies

a. OTT data services are outside the current definition of a managed CMRS service and are currently not required to be evaluated.

b. Based on ANSI. C63.19-2011. An RF air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is ≤ 17 dBm for any of its operating modes. If a device supports multiple RF air interfaces, each RF air interface shall be evaluated individually.

The MIF plus the worst case average power for all modes are investigated below to determine the testing requirements for this device.

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II. Low power exemption

Air interference	Maximum power(dB)	MIF(dB)	Power + MIF (dB)	ANSI C63.19 2011 test required
GSM850	32.78	3.63	36.41	Yes
GSM1900	30.07	3.63	33.7	Yes
WCDMA B2	24.45	-27.23	-2.78	No
WCDMA B4	23.49	-27.23	-2.94	No
WCDMA B5	23.93	-27.23	-3.3	No
LTE FDD	24.5	-9.76	14.74	No
LTE TDD	24	-1.44	22.56	Yes

We used the predetermined MIF to evaluate the low power exemption.

Based on ANSI. C63.19 2011, RF emission testing for WCDMA /LTE FDD is exempted.

Based on ANSI. C63.19 2011, WCDMA / LTE FDD that is exempted from testing shall be rated as M4.

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13. ANSI C63.19-2011 performance and categories

The measurements were performed to ensure compliance to the ANSI C63.19-2011 standard,

Category	E-Field Emissions dB(V/m) < 960MHz
M1	50-55
M2	45-50
M3	40-45
M4	<40

Category	E-Field Emissions dB(V/m) > 960MHz
M1	40-45
M2	35-40
M3	30-35
M4	<30

WD RF audio interference level categories in logarithmic units

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14. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner Engineering AG	E-Field Probe	ER3DV6	2306	Mar.20,2017	Mar.19,2018
Schmid & Partner Engineering AG	System Validation Dipole	CD835V3	1052	Mar.20,2017	Mar.19,2018
		CD1880V3	1044	Mar.20,2017	Mar.19,2018
		CD2600V3	1010	Nov,17,2016	Nov,16,2017
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Mar.22,2017	Mar.21,2018
Schmid & Partner Engineering AG	Software	DASY52 52.8.8	N/A	Calibration not required	Calibration not required
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	778D	MY52180302	Apr.13,2017	Apr.12,2018
Agilent	RF Signal Generator	N5181A	MY50144143	Mar.01,2017	Feb.28,2018
Schmid & Partner Engineering AG	Test Arch SD HAC	P01	1047	Calibration not required	Calibration not required
Agilent	Power Meter	E4417A	MY52240003	Jan.20,2017	Jan.19,2018
Agilent	Power Sensor	E9301H	MY52200003	Oct.17,2016	Oct.16,2017
			MY52200004	Oct.17,2016	Oct.16,2017

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Anritsu	Radio Communication Test	MT8820C	6201061049	Apr.08,2017	Apr.07,2018

15. Summary of Results

E-Field

E-Field Emission	Channel	Modulation Interference Factor	Conducted Power (dBm)	Power Drift(dB)	Audio Interference Level dB(V/m)	RESULT	Excl Blocks per 4.3.1.2.2
GSM 850	128	3.63	32.75	0.07	39.41	M4	689
	190	3.63	32.75	-0.04	35.97	M4	689
	251	3.63	32.78	0.07	35.54	M4	689
E-Field Emission	Channel	Modulation Interference Factor	Conducted Power (dBm)	Power Drift(dB)	Audio Interference Level dB(V/m)	RESULT	Excl Blocks per 4.3.1.2.2
GSM 1900	512	3.63	30.07	-0.16	26.95	M4	123
	661	3.63	30.04	-0.08	25.38	M4	123
	810	3.63	29.98	-0.13	22.93	M4	123
E-Field Emission	Channel	Modulation Interference Factor	Conducted Power (dBm)	Power Drift(dB)	Audio Interference Level dB(V/m)	RESULT	Excl Blocks per 4.3.1.2.2
LTE B38	37850	-1.44	22.31	-0.19	17.33	M4	123
	38000	-1.44	22.48	0.12	17.01	M4	123
	38150	-1.44	22.55	-0.10	17.15	M4	123
E-Field Emission	Channel	Modulation Interference Factor	Conducted Power (dBm)	Power Drift(dB)	Audio Interference Level dB(V/m)	RESULT	Excl Blocks per 4.3.1.2.2
LTE B41	39750	-1.44	22.97	0.11	18.45	M4	123
	40185	-1.44	22.99	-0.17	18.48	M4	123
	40620	-1.44	22.85	-0.13	17.88	M4	123
	41055	-1.44	22.85	0.15	17.62	M4	123
	41490	-1.44	22.28	0.07	17.43	M4	123

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16. Measurement Data

Date: 2017/9/15

HAC RF-EMISSION_GSM 850_CH 128

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 40.04 V/m; Power Drift = 0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.91 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 32.51 dBV/m	Grid 2 M4 34.69 dBV/m	Grid 3 M4 34.7 dBV/m
Grid 4 M4 32.69 dBV/m	Grid 5 M4 34.91 dBV/m	Grid 6 M4 34.94 dBV/m
Grid 7 M4 32.97 dBV/m	Grid 8 M4 35.11 dBV/m	Grid 9 M4 35.13 dBV/m

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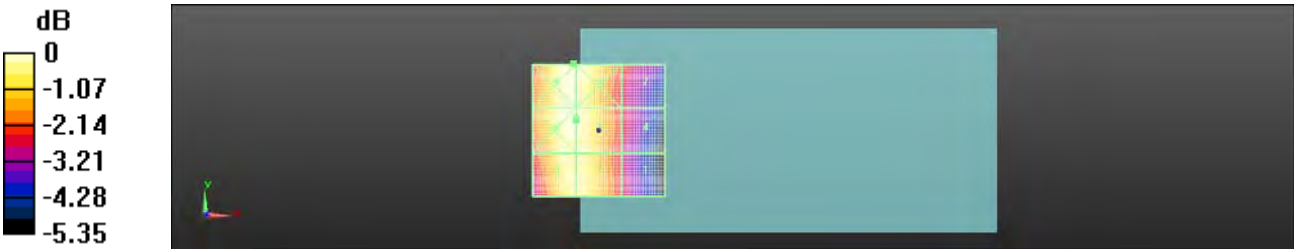
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 35.13 dBV/m

E Category: M4

Location: -9.5, 25, 8.7 mm



0 dB = 57.07 V/m = 35.13 dBV/m

Date: 2017/9/15

HAC RF-EMISSION_GSM 850_CH 190

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.48 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.97 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 33.38 dBV/m	Grid 2 M4 35.81 dBV/m	Grid 3 M4 35.83 dBV/m
Grid 4 M4 33.52 dBV/m	Grid 5 M4 35.97 dBV/m	Grid 6 M4 36.02 dBV/m
Grid 7 M4 33.84 dBV/m	Grid 8 M4 36.16 dBV/m	Grid 9 M4 36.19 dBV/m

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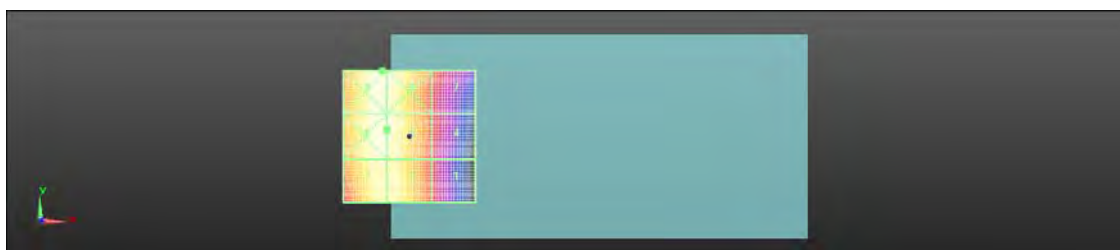
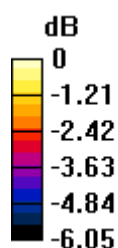
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 36.19 dBV/m

E Category: M4

Location: -10, 25, 8.7 mm



$$0 \text{ dB} = 64.52 \text{ V/m} = 36.19 \text{ dBV/m}$$

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Date: 2017/9/15

HAC RF-EMISSION_GSM 850_CH 251

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 41.82 V/m; Power Drift = 0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.54 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 32.57 dBV/m	Grid 2 M4 35.34 dBV/m	Grid 3 M4 35.4 dBV/m
Grid 4 M4 32.75 dBV/m	Grid 5 M4 35.54 dBV/m	Grid 6 M4 35.65 dBV/m
Grid 7 M4 33.11 dBV/m	Grid 8 M4 35.76 dBV/m	Grid 9 M4 35.82 dBV/m

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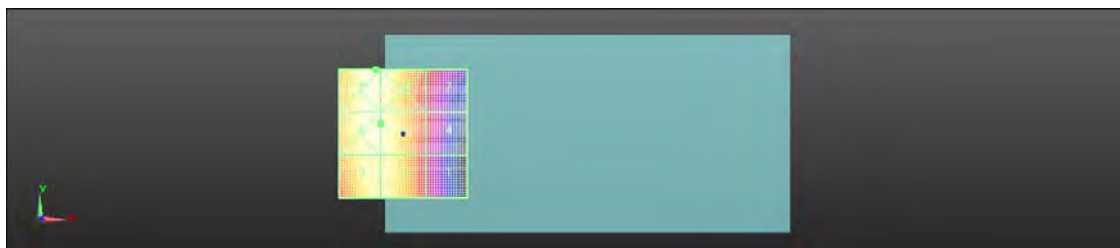
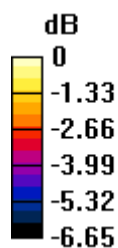
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 35.82 dBV/m

E Category: M4

Location: -10.5, 25, 8.7 mm



0 dB = 61.82 V/m = 35.82 dBV/m

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Date: 2017/9/15

HAC RF-EMISSION_GSM 1900_CH 512

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 5.293 V/m; Power Drift = -0.16 dB

Applied MIF = 3.63 dB

RF audio interference level = 26.95 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 26.91 dBV/m	Grid 2 M4 28.3 dBV/m	Grid 3 M4 27.98 dBV/m
Grid 4 M4 22.51 dBV/m	Grid 5 M4 21.85 dBV/m	Grid 6 M4 22.95 dBV/m
Grid 7 M4 22.77 dBV/m	Grid 8 M4 26.81 dBV/m	Grid 9 M4 26.95 dBV/m

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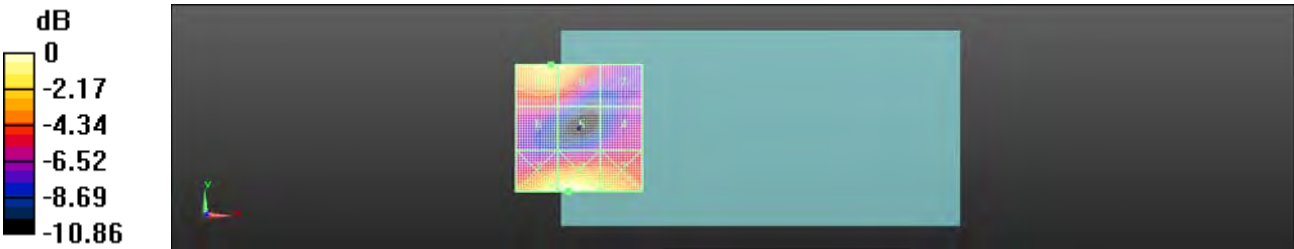
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 28.30 dBV/m

E Category: M4

Location: -4, -25, 8.7 mm



$$0 \text{ dB} = 26.00 \text{ V/m} = 28.30 \text{ dBV/m}$$

Date: 2017/9/15

HAC RF-EMISSION_GSM 1900_CH 661

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 4.564 V/m; Power Drift = -0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 25.38 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 24.88 dBV/m	Grid 2 M4 26.64 dBV/m	Grid 3 M4 26.5 dBV/m
Grid 4 M4 22.1 dBV/m	Grid 5 M4 21.36 dBV/m	Grid 6 M4 21.01 dBV/m
Grid 7 M4 21.72 dBV/m	Grid 8 M4 25.17 dBV/m	Grid 9 M4 25.38 dBV/m

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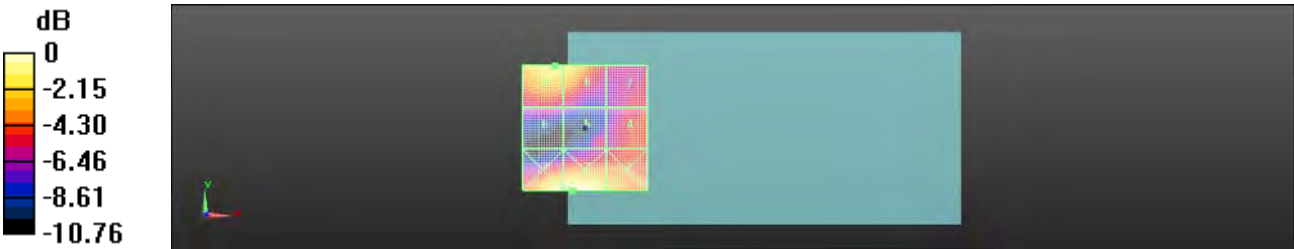
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 26.64 dBV/m

E Category: M4

Location: -5, -25, 8.7 mm



$$0 \text{ dB} = 21.48 \text{ V/m} = 26.64 \text{ dBV/m}$$

Date: 2017/9/15

HAC RF-EMISSION_GSM 1900_CH 810

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 4.963 V/m; Power Drift = -0.13 dB

Applied MIF = 3.63 dB

RF audio interference level = 22.93 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 22.72 dBV/m	Grid 2 M4 24.47 dBV/m	Grid 3 M4 24.34 dBV/m
Grid 4 M4 21.94 dBV/m	Grid 5 M4 20.28 dBV/m	Grid 6 M4 18.32 dBV/m
Grid 7 M4 21.12 dBV/m	Grid 8 M4 22.67 dBV/m	Grid 9 M4 22.93 dBV/m

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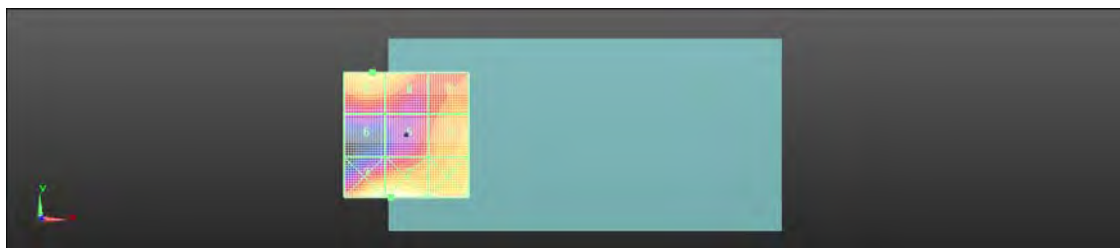
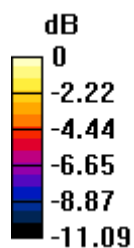
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 24.47 dBV/m

E Category: M4

Location: -6, -25, 8.7 mm



0 dB = 16.73 V/m = 24.47 dBV/m

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 38 (20M)_CH 37850_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2580 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 5.668 V/m; Power Drift = -0.19 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.33 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.52 dBV/m	Grid 2 M4 20.43 dBV/m	Grid 3 M4 20.77 dBV/m
Grid 4 M4 17.33 dBV/m	Grid 5 M4 16.87 dBV/m	Grid 6 M4 17.12 dBV/m
Grid 7 M4 15.77 dBV/m	Grid 8 M4 16.02 dBV/m	Grid 9 M4 16.69 dBV/m

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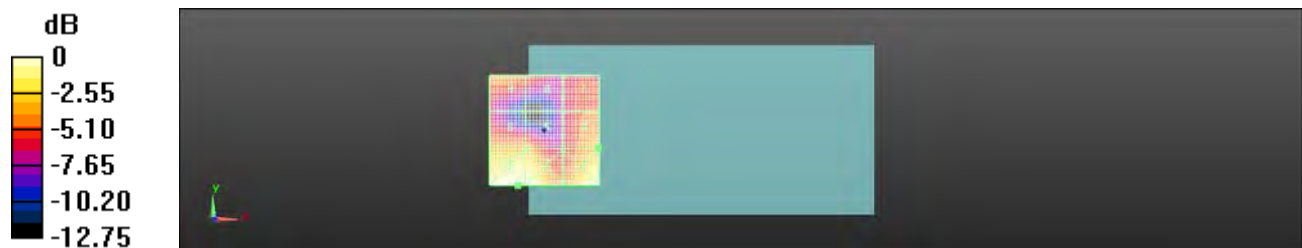
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 20.77 dBV/m

E Category: M4

Location: -12, -25, 8.7 mm



0 dB = 10.92 V/m = 20.77 dBV/m

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 38 (20M)_CH 38000_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2595 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 5.143 V/m; Power Drift = 0.12 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.01 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.36 dBV/m	Grid 2 M4 19.91 dBV/m	Grid 3 M4 20.25 dBV/m
Grid 4 M4 17.01 dBV/m	Grid 5 M4 16.27 dBV/m	Grid 6 M4 16.6 dBV/m
Grid 7 M4 15.67 dBV/m	Grid 8 M4 15.58 dBV/m	Grid 9 M4 16.05 dBV/m

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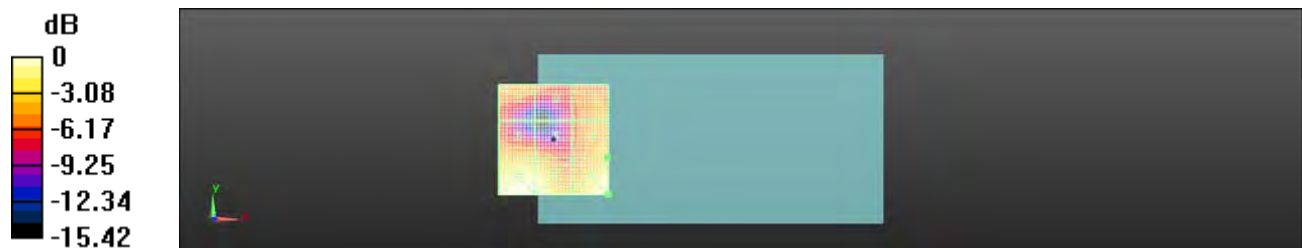
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 20.36 dBV/m

E Category: M4

Location: 25, -25, 8.7 mm



0 dB = 10.42 V/m = 20.36 dBV/m

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 38 (20M)_CH 38150_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2610 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 5.756 V/m; Power Drift = -0.10 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.15 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.03 dBV/m	Grid 2 M4 19.32 dBV/m	Grid 3 M4 19.72 dBV/m
Grid 4 M4 16.67 dBV/m	Grid 5 M4 16.56 dBV/m	Grid 6 M4 17.15 dBV/m
Grid 7 M4 15.01 dBV/m	Grid 8 M4 14.51 dBV/m	Grid 9 M4 15.38 dBV/m

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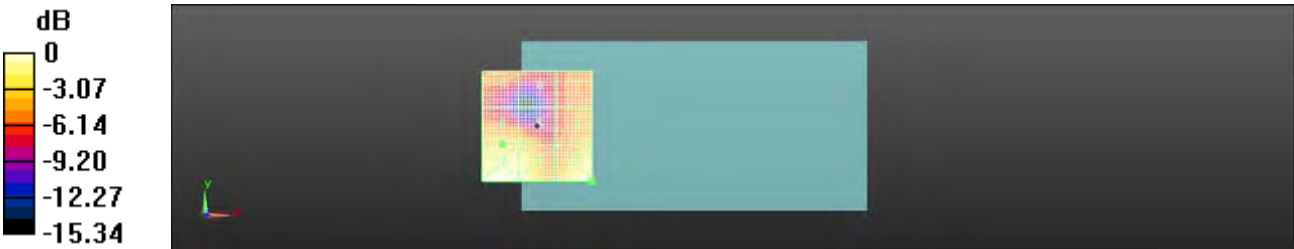
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 20.03 dBV/m

E Category: M4

Location: 25, -25, 8.7 mm



$$0 \text{ dB} = 10.03 \text{ V/m} = 20.03 \text{ dBV/m}$$

Date: 2017/9/29

HAC-RF-Emission_LTE Band 41 (20M)_CH 39750_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 6.017 V/m; Power Drift = 0.11 dB

Applied MIF = -1.44 dB

RF audio interference level = 18.45 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.16 dBV/m	Grid 2 M4 21.22 dBV/m	Grid 3 M4 21.55 dBV/m
Grid 4 M4 17.65 dBV/m	Grid 5 M4 17.8 dBV/m	Grid 6 M4 18.45 dBV/m
Grid 7 M4 16.01 dBV/m	Grid 8 M4 16.42 dBV/m	Grid 9 M4 17.16 dBV/m

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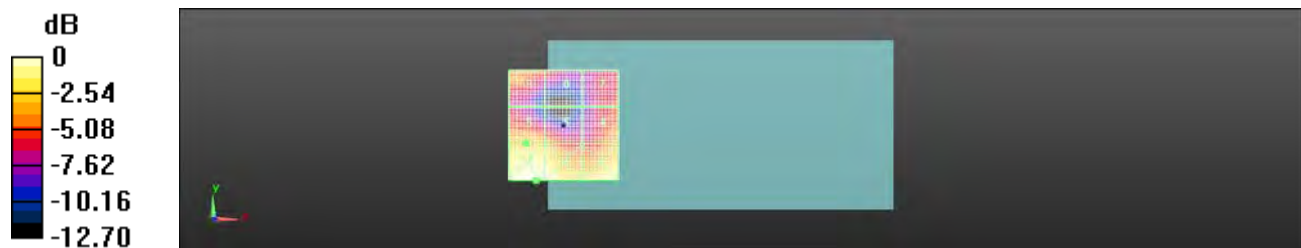
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 21.55 dBV/m

E Category: M4

Location: -12.5, -25, 8.7 mm



0 dB = 11.96 V/m = 21.55 dBV/m

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 41 (20M)_CH 40185_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 5.396 V/m; Power Drift = -0.17 dB

Applied MIF = -1.44 dB

RF audio interference level = 18.48 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.39 dBV/m	Grid 2 M4 21.9 dBV/m	Grid 3 M4 22.1 dBV/m
Grid 4 M4 18.48 dBV/m	Grid 5 M4 17.25 dBV/m	Grid 6 M4 17.68 dBV/m
Grid 7 M4 17.31 dBV/m	Grid 8 M4 17.33 dBV/m	Grid 9 M4 17.79 dBV/m

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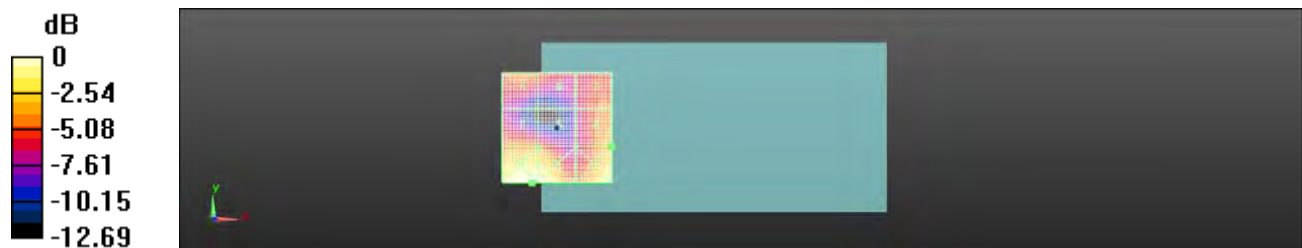
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 22.10 dBV/m

E Category: M4

Location: -11.5, -25, 8.7 mm



0 dB = 12.73 V/m = 22.10 dBV/m

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 41 (20M)_CH 40620_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 6.312 V/m; Power Drift = -0.13 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.88 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.29 dBV/m	Grid 2 M4 20.92 dBV/m	Grid 3 M4 21.32 dBV/m
Grid 4 M4 17.85 dBV/m	Grid 5 M4 17.51 dBV/m	Grid 6 M4 17.88 dBV/m
Grid 7 M4 16.31 dBV/m	Grid 8 M4 16.24 dBV/m	Grid 9 M4 16.97 dBV/m

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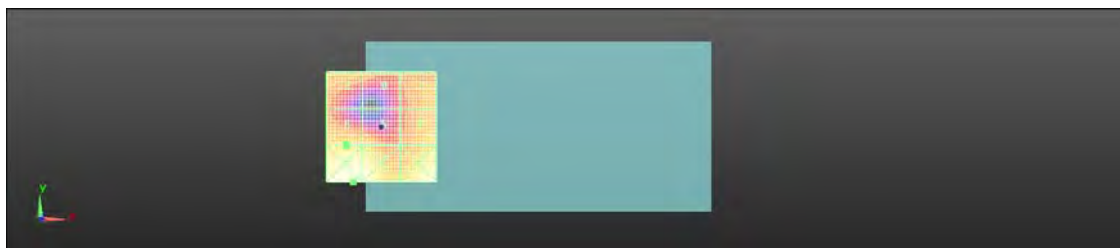
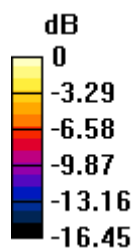
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 21.32 dBV/m

E Category: M4

Location: -13, -25, 8.7 mm



$$0 \text{ dB} = 11.64 \text{ V/m} = 21.32 \text{ dBV/m}$$

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 41 (20M)_CH 41055_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 5.160 V/m; Power Drift = 0.15 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.62 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.09 dBV/m	Grid 2 M4 20.12 dBV/m	Grid 3 M4 20.59 dBV/m
Grid 4 M4 16.55 dBV/m	Grid 5 M4 17.01 dBV/m	Grid 6 M4 17.62 dBV/m
Grid 7 M4 15.45 dBV/m	Grid 8 M4 15.87 dBV/m	Grid 9 M4 16.13 dBV/m

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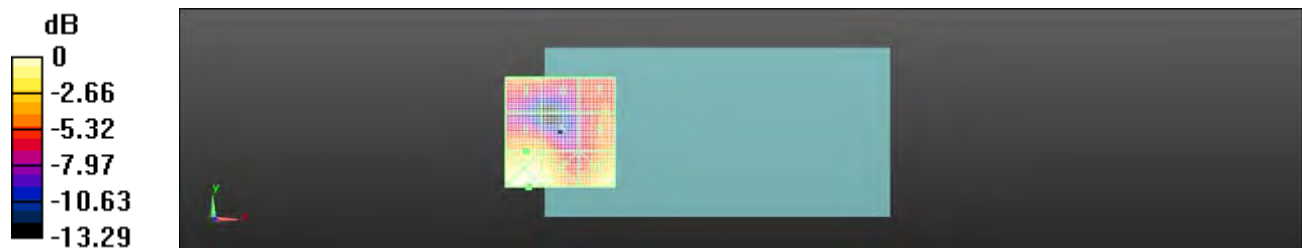
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 20.59 dBV/m

E Category: M4

Location: -14.5, -25, 8.7 mm



0 dB = 10.71 V/m = 20.59 dBV/m

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Date: 2017/9/29

HAC-RF-Emission_LTE Band 41 (20M)_CH 41490_16QAM_1-0

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 4.436 V/m; Power Drift = 0.07 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.43 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 19.58 dBV/m	Grid 2 M4 19.93 dBV/m	Grid 3 M4 20.42 dBV/m
Grid 4 M4 16.23 dBV/m	Grid 5 M4 16.8 dBV/m	Grid 6 M4 17.43 dBV/m
Grid 7 M4 14.92 dBV/m	Grid 8 M4 14.37 dBV/m	Grid 9 M4 14.71 dBV/m

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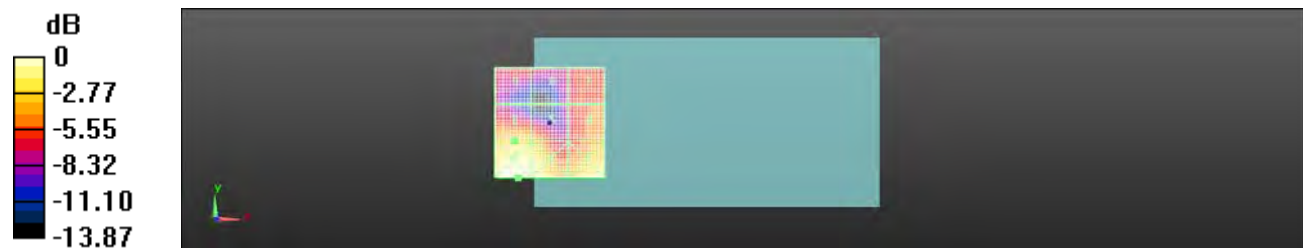
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 20.42 dBV/m

E Category: M4

Location: -14.5, -25, 8.7 mm



0 dB = 10.49 V/m = 20.42 dBV/m

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17. System Verification

Date: 2017/9/15

Dipole CD835_SN:1052

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Dipole E-Field measurement: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 107.4 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 108.9 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 103.7 V/m	Grid 2 M4 108.9 V/m	Grid 3 M4 102.2 V/m
Grid 4 M4 62.44 V/m	Grid 5 M4 62.63 V/m	Grid 6 M4 60.59 V/m
Grid 7 M4 110.4 V/m	Grid 8 M4 110.5 V/m	Grid 9 M4 110.0 V/m

Cursor:

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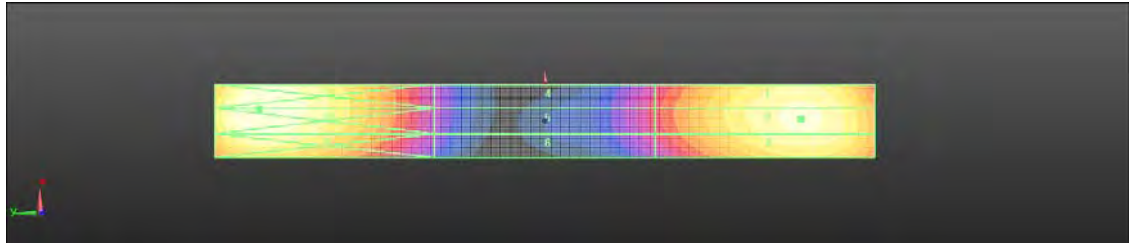
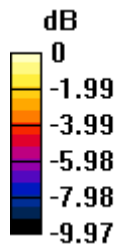
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Total = 110.5 V/m

E Category: M4

Location: 3, 78, 9.7 mm



0 dB = 110.5 V/m = 40.86 dBV/m

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Date: 2017/9/15

Dipole CD1880_SN:1044

Communication System: CW; Frequency: 1880 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Dipole E-Field measurement: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 159.3 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 89.94 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 M3 90.06 V/m	Grid 2 M3 91.43 V/m	Grid 3 M3 90.04 V/m
Grid 4 M3 69.98 V/m	Grid 5 M3 70.52 V/m	Grid 6 M3 69.25 V/m
Grid 7 M3 88.80 V/m	Grid 8 M3 89.94 V/m	Grid 9 M3 88.25 V/m

Cursor:

Total = 91.43 V/m

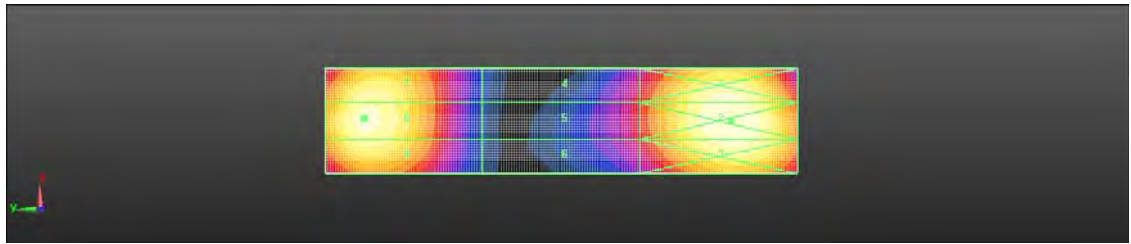
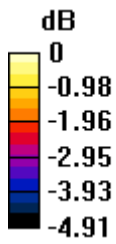
E Category: M3

Location: 0, -32.5, 9.7 mm

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0 dB = 91.43 V/m = 39.22 dBV/m

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Date: 2017/9/29

Dipole CD2600_SN:1010

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2017/3/20;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: HAC Test Arch; ;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Dipole E-Field measurement: Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.29 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 82.14 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 M3 81.69 V/m	Grid 2 M3 87.83 V/m	Grid 3 M3 87.86 V/m
Grid 4 M3 77.98 V/m	Grid 5 M3 82.14 V/m	Grid 6 M3 82.14 V/m
Grid 7 M3 75.99 V/m	Grid 8 M3 80.22 V/m	Grid 9 M3 80.30 V/m

Cursor:

Total = 87.86 V/m

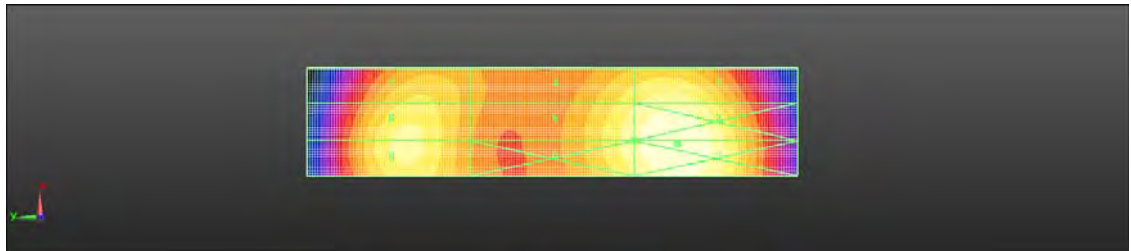
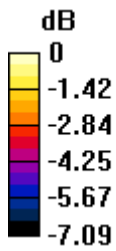
E Category: M3

Location: -4, -23, 9.7 mm

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$$0 \text{ dB} = 87.86 \text{ V/m} = 38.88 \text{ dBV/m}$$

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18. DAE & Probe Calibration Certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zaugghausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
S Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client SGS - TW (Auden)

Certificate No: DAE4-547_Mar17

CALIBRATION CERTIFICATE

Object DAE4 - SD 000 D04 BM - SN: 547

Calibration procedure(s) QA CAL-06.v29
Calibration procedure for the data acquisition electronics (DAE)

Calibration date March 22, 2017

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility, environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (MATE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Kelthley Multimeter Type 2001	SN: 0810278	09-Sep-16 (No:19065)	Sep-17
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	05-Jan-17 (in house check)	In house check: Jan-18
Calibrator Box V2.1	SE UMS 006 AA 1002	05-Jan-17 (in house check)	In house check: Jan-18

Calibrated by: Name: Eric Harfeld Function: Technician Signature:

Approved by: Fin Böhmler Deputy Technical Manager Signature:

Issued: March 22, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-547_Mar17

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Accreditation No.: SCS 0108

Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** Typical value for information; DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 0.1μV, full range = -100...+300 mV

Low Range: 1LSB = 51nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec, Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.188 ± 0.02% (k=2)	403.093 ± 0.02% (k=2)	402.739 ± 0.02% (k=2)
Low Range	3.95348 ± 1.50% (k=2)	3.90456 ± 1.50% (k=2)	3.96243 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	91.0 ° ± 1 °
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200031.23	0.59	0.00
Channel X + Input	20005.44	2.04	-0.01
Channel X - Input	-20000.97	4.91	-0.02
Channel Y + Input	200029.80	-1.03	-0.00
Channel Y + Input	20000.30	-3.03	-0.02
Channel Y - Input	-20007.73	-1.72	0.01
Channel Z + Input	200030.21	-0.96	-0.00
Channel Z + Input	-20003.13	-0.21	-0.00
Channel Z - Input	-20005.14	0.81	-0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2000.02	-0.08	-0.00
Channel X + Input	200.18	0.36	0.18
Channel X - Input	-200.16	0.00	-0.00
Channel Y + Input	2000.10	0.06	0.00
Channel Y + Input	199.43	-0.40	-0.20
Channel Y - Input	-200.77	-0.79	0.35
Channel Z + Input	2000.19	0.28	0.01
Channel Z + Input	198.82	-1.00	-0.50
Channel Z - Input	-201.46	-1.37	0.68

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-2.08	-5.00
	-200	6.80	4.50
Channel Y	200	-0.67	-1.21
	-200	0.37	-0.41
Channel Z	200	5.07	4.93
	-200	-7.67	-8.12

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	2.85	-2.08
Channel Y	200	10.58	-	3.60
Channel Z	200	4.55	7.85	-

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16364	15364
Channel Y	16476	16801
Channel Z	16077	16468

5. Input Offset MeasurementDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10mV

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	-0.53	-1.14	0.26	0.31
Channel Y	-1.03	-2.43	-0.21	0.32
Channel Z	-1.56	-2.31	-0.62	0.35

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client **SGS-TW (Auden)**

Certificate No: **ER3-2306_Nov16**

CALIBRATION CERTIFICATE

Object **ER3DV6 - SN:2306**

Calibration procedure(s) **QA CAL-02.v8, QA CAL-25.v6**
Calibration procedure for E-field probes optimized for close near field evaluations in air

Calibration date: **November 23, 2016**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 55277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Reference Probe ER3DV6	SN: 2328	14-Oct-16 (No. ER3-2328_Oct16)	Oct-17
DAE4	SN: 789	11-Nov-16 (No. DAE4-789_Nov16)	Nov-17
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41283874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: U00110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US87300686	18 Oct 01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:	Name Michael Weber	Function Laboratory Technician	Signature
Approved by:	Name Kolja Pokovic	Function Technical Manager	Signature

Issued: November 25, 2016

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Certificate No: ER3-2306_Nov16

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Accreditation No.: **SCS 0108**

Glossary:

NORM _{x,y,z}	sensitivity in free space
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ψ	ψ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center). i.e., $\theta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005
- CTIA Test Plan for Hearing Aid Compatibility, Rev 3.0, November 2013

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ for XY sensors and $\theta = 90$ for Z sensor ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart).
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- Spherical isotropy (3D deviation from isotropy)**: in a locally homogeneous field realized using an open waveguide setup.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM (no uncertainty required).

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ER3DV6 – SN:2306

November 23, 2016

Probe ER3DV6

SN:2306

Manufactured: December 17, 2002
Calibrated: November 23, 2016

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Certificate No: ER3-2306_Nov16

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ER3DV6 – SN:2306

November 23, 2016

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2306**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$)	1.05	1.08	1.19	$\pm 10.1\%$
DCP (mV) ^B	102.1	101.9	104.6	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	153.2	$\pm 3.3\%$
		Y	0.0	0.0	1.0		166.4	
		Z	0.0	0.0	1.0		156.4	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	0.33	50.6	4.6	10.00	36.4	$\pm 2.7\%$
		Y	0.34	49.4	4.6		37.9	
		Z	0.42	50.7	4.4		36.9	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	2.39	69.1	15.0	9.39	131.5	$\pm 2.5\%$
		Y	3.16	76.0	19.5		139.0	
		Z	2.56	68.9	15.1		130.6	
10295- AAB	CDMA2000, RC1, SQ3, 1/8th Rate 25 fr.	X	5.49	70.6	26.8	12.49	80.8	$\pm 1.4\%$
		Y	5.73	72.3	28.6		87.7	
		Z	6.01	72.1	27.0		84.7	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A Numerical linearization parameter; uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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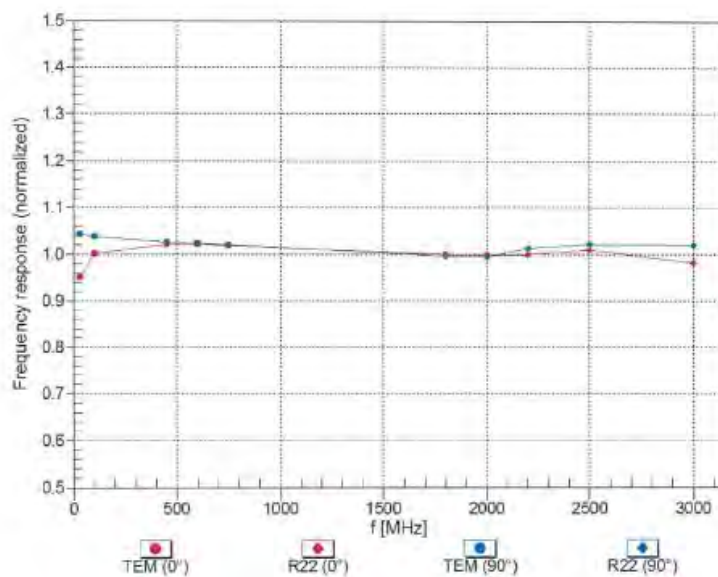
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ER3DV6 – SN:2306

November 23, 2016

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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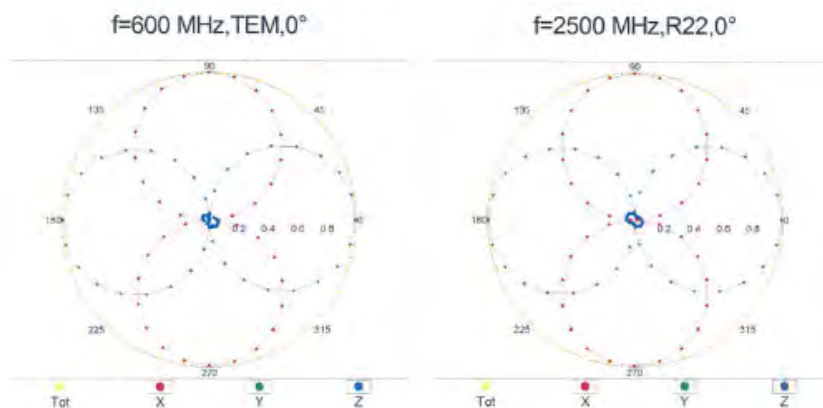
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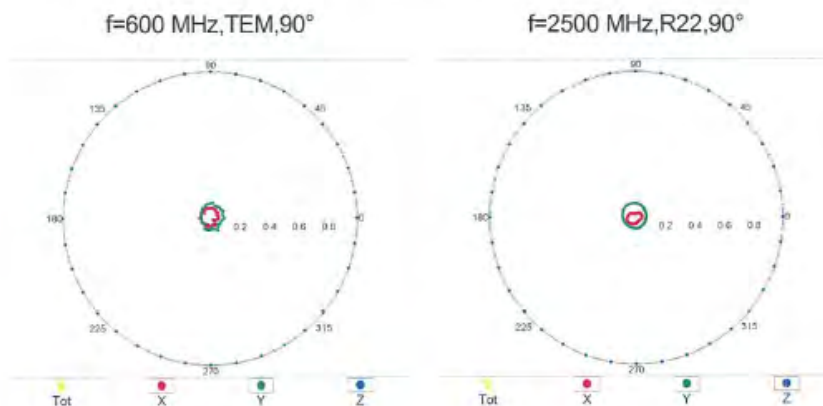
ER3DV6 – SN:2306

November 23, 2016

Receiving Pattern (ϕ), $\theta = 0^\circ$



Receiving Pattern (ϕ), $\theta = 90^\circ$



Certificate No: ER3-2306_Nov16

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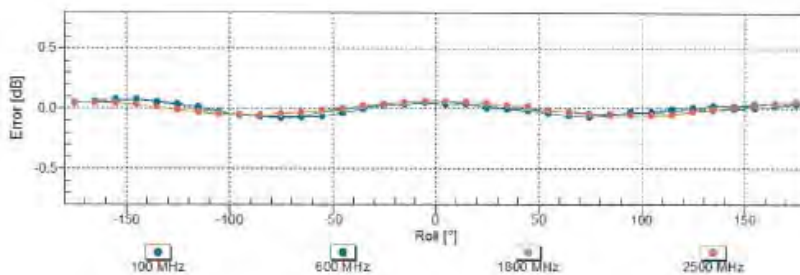
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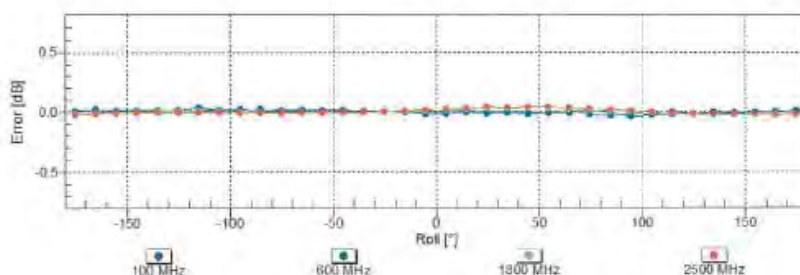
November 23, 2016

Receiving Pattern (ϕ), $\theta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Receiving Pattern (ϕ), $\theta = 90^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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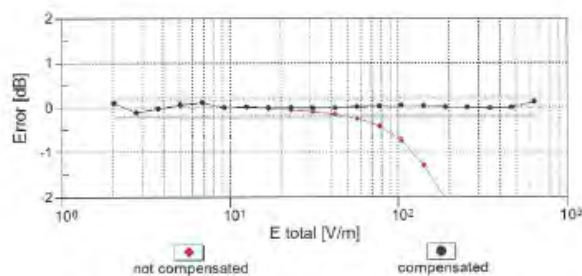
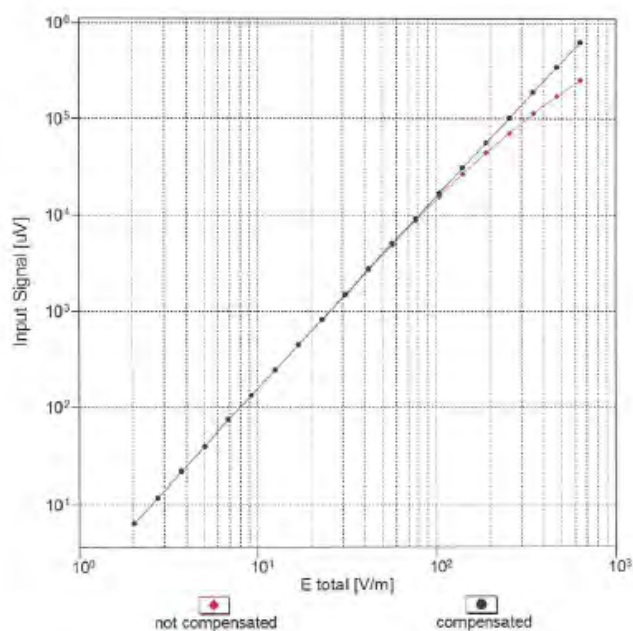
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ER3DV6 – SN.2306

November 23, 2016

Dynamic Range f(E-field) (TEM cell , f = 900 MHz)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Certificate No: ER3-2306_Nov16

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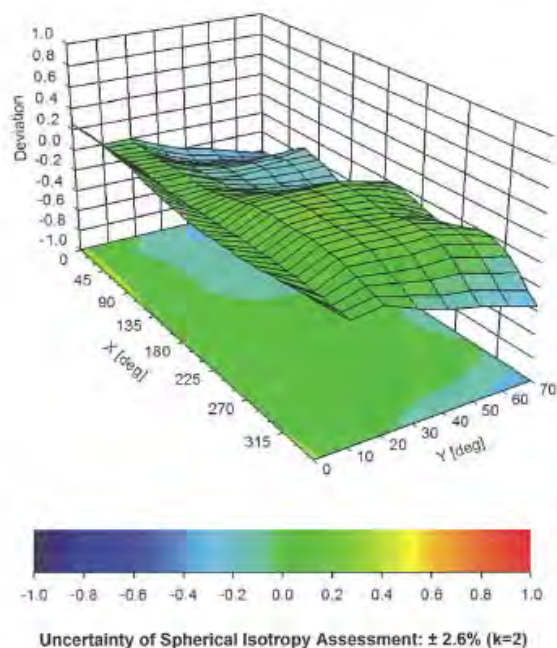
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ER3DV6 – SN:2306

November 23, 2016

Deviation from Isotropy in Air Error (ϕ , θ), $f = 900$ MHz



Certificate No: ER3-2306_Nov16

Page 9 of 10

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ER3DV6 - SN:2306

November 23, 2016

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2306

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	134.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	8 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	2.5 mm
Probe Tip to Sensor Z Calibration Point	2.5 mm

Certificate No. ER3-2306_Nov16

Page 10 of 10

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19. Uncertainty Budget

HAC Uncertainty Budget According to ANSI C63.19 [1], [2]							
Error Description	Uncert. value	Prob. Dist.	Div.	(c _i) E	(c _i) H	Std. Unc. E	Std. Unc. H
Measurement System							
Probe Calibration	±5.1 %	N	1	1	1	±5.1 %	±5.1 %
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %
Sensor Displacement	±16.5 %	R	$\sqrt{3}$	1	0.145	±9.5 %	±1.4 %
Boundary Effects	±2.4 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %
Phantom Boundary Effect	±7.2 %	R	$\sqrt{3}$	1	0	±4.1 %	±0.0 %
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %
Scaling with PMR calibration	±10.0 %	R	$\sqrt{3}$	1	1	±5.8 %	±5.8 %
System Detection Limit	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %
RF Ambient Conditions	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %
RF Reflections	±12.0 %	R	$\sqrt{3}$	1	1	±6.9 %	±6.9 %
Probe Positioner	±1.2 %	R	$\sqrt{3}$	1	0.67	±0.7 %	±0.5 %
Probe Positioning	±4.7 %	R	$\sqrt{3}$	1	0.67	±2.7 %	±1.8 %
Extrap. and Interpolation	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %
Test Sample Related							
Device Positioning Vertical	±4.7 %	R	$\sqrt{3}$	1	0.67	±2.7 %	±1.8 %
Device Positioning Lateral	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %
Device Holder and Phantom	±2.4 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %
Phantom and Setup Related							
Phantom Thickness	±2.4 %	R	$\sqrt{3}$	1	0.67	±1.4 %	±0.9 %
Combined Std. Uncertainty						±16.3 %	±12.3 %
Expanded Std. Uncertainty on Power						±32.6 %	±24.6 %
Expanded Std. Uncertainty on Field						±16.3 %	±12.3 %

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20. System Validation from Original Equipment Supplier

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client: SGS-TW (Auden)

Certificate No.: CD835V3-1052_Mar17

CALIBRATION CERTIFICATE

Object: CD835V3 - SN: 1052

Calibration procedure(s): QA CAL-20 v6
Calibration procedure for dipoles in air

Calibration date: March 20, 2017

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurement results and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (NIST critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103045	06-Apr-16 (No. 217-02288)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20K)	06-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	06-Apr-16 (No. 217-02295)	Apr-17
Probe ER3DV6	SN: 2336	30-Dec-16 (No. ER3-2336_Dec16)	Dec-17
Probe H3DV6	SN: 6065	30-Dec-16 (No. H3-6065_Dec16)	Dec-17
DAE4	SN: 781	02-Sep-16 (No. DAE4-781_Sep16)	Sep-17
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter Agilent 4413B	SN: GB42420191	09-Oct-09 (in house check Sep-14)	In house check: Oct-17
Power sensor HP E4412A	SN: US38485102	05-Jan-10 (in house check Sep-14)	In house check: Oct-17
Power sensor HP 8450A	SN: US37295597	09-Oct-09 (in house check Sep-14)	In house check: Oct-17
RF generator R&S SMT-06	SN: 832283/011	27-Aug-12 (in house check Oct-16)	In house check: Oct-17
Network Analyzer HP 8753E	SN: US37380580	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:	Name: Johannes Kurikka	Function: Laboratory Technician	Signature:
Approved by:	Name: Katja Pokovic	Function: Technical Manager	Signature:

issued: March 20, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No.: CD835V3-1052_Mar17

Page 1 of 5

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Accreditation No.: SCS 0108

References

- (1) ANSI-C63.19-2011
American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- **Coordinate System:** y-axis is in the direction of the dipole arms, z-axis is from the basis of the antenna (mounted on the table) towards its feed point between the two dipole arms, x-axis is normal to the other axes. In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a distance of 15 mm above the top metal edge of the dipole arms.
- **Measurement Conditions:** Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- **Antenna Positioning:** The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- **Feed Point Impedance and Return Loss:** These parameters are measured using a HP 8753E Vector Network Analyzer. The Impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- **E-field distribution:** E field is measured in the x-y plane with an isotropic ER3D-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	835 MHz \pm 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 835 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	109.4 V/m = 40.78 dBV/m
Maximum measured above low end	100 mW input power	107.9 V/m = 40.68 dBV/m
Averaged maximum above arm	100 mW input power	108.7 V/m \pm 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)**Antenna Parameters**

Frequency	Return Loss	Impedance
800 MHz	15.6 dB	41.2 Ω - 12.5 j Ω
835 MHz	26.6 dB	51.0 Ω + 3.6 j Ω
900 MHz	17.1 dB	52.8 Ω - 14.3 j Ω
950 MHz	20.3 dB	49.8 Ω + 9.7 j Ω
960 MHz	15.0 dB	60.8 Ω + 16.6 j Ω

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

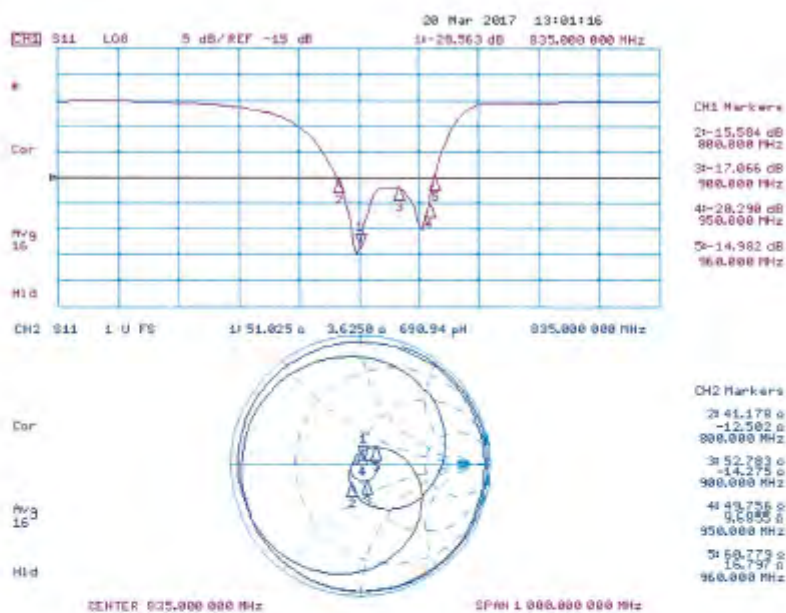
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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Impedance Measurement Plot



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DASY5 E-field Result

Date: 17.03.2017

Test Laboratory: SPEAG Lab2

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: CD835V3 - SN: 1052

Communication System: UFD 0 - CW ; Frequency: 835 MHz
Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ER3DV6 - SN2336; ConvF[1, 1, 1]; Calibrated: 30.12.2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 02.09.2016
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement @ 835MHz/E-Scan - 835MHz d=15mm/Hearing Aid Compatibility Test (41x361x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 108.8 V/m; Power Drift = -0.01 dB

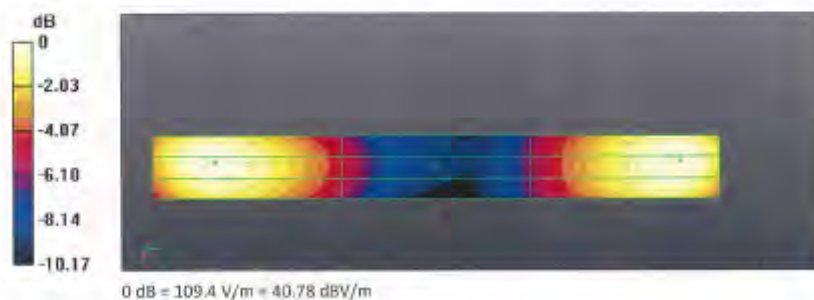
Applied MIF = 0.00 dB

RF audio interference level = 40.78 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
40.35 dBV/m	40.66 dBV/m	40.6 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
35.78 dBV/m	35.98 dBV/m	35.9 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
40.46 dBV/m	40.78 dBV/m	40.74 dBV/m



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Accreditation No.: **SCS 0108**

Client: **SGS-TW (Auden)**

Certificate No: **CD1880V3-1044_Mar17**

CALIBRATION CERTIFICATE

Object: **CD1880V3 - SN: 1044**

Calibration procedure(s): **QA CAL-20.V6
Calibration procedure for dipoles in air**

Calibration date: **March 20, 2017**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&E critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	05-Apr-16 (No. 217-02289/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	05-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	05-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20K)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 05327	05-Apr-16 (No. 217-02285)	Apr-17
Probe ER3DV6	SN: 2336	30-Dec-16 (No. ER3-2336_Dec16)	Dec-17
Probe H3DV6	SN: 6065	30-Dec-16 (No. H3-6065_Dec16)	Dec-17
DAE4	SN: 781	02-Sep-16 (No. DAE4-781_Sep16)	Sep-17
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter Agilent 4418B	SN: GB42420191	09-Oct-09 (in house check Sep-14)	In house check: Oct-17
Power sensor HP E4412A	SN: US30485102	05-Jan-10 (in house check Sep-14)	In house check: Oct-17
Power sensor HP 8482A	SN: US37295597	09-Oct-09 (in house check Sep-14)	In house check: Oct-17
RF generator R&S SMT-06	SN: 83283011	27-Aug-12 (in house check Oct-15)	In house check: Oct-17
Network Analyzer HP 8753E	SN: US37390685	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:	Name Johannes Kurikca	Function Laboratory Technician	Signature
Approved by:	Katja Pokovic	Technical Manager	

Issued: March 20, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: CD1880V3-1044_Mar17

Page 1 of 5

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Accreditation No.: **SCS 0108**

References

- [1] ANSI-C63.19-2011
American National Standard. Methods of Measurement of Compatibility between Wireless Communications
Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- **Coordinate System:** y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes. In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a distance of 15 mm above the top metal edge of the dipole arms.
- **Measurement Conditions:** Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- **Antenna Positioning:** The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching gnd reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- **Feed Point Impedance and Return Loss:** These parameters are measured using a HP 8753E Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- **E-field distribution:** E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	1880 MHz \pm 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 1880 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	82.0 V/m = 39.28 dBV/m
Maximum measured above low end	100 mW input power	89.9 V/m = 39.08 dBV/m
Averaged maximum above arm	100 mW input power	91.0 V/m \pm 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)**Antenna Parameters**

Frequency	Return Loss	Impedance
1730 MHz	23.5 dB	54.7 Ω + 5.2 j Ω
1880 MHz	20.0 dB	58.9 Ω + 6.3 j Ω
1900 MHz	20.3 dB	60.3 Ω + 2.6 j Ω
1950 MHz	26.7 dB	53.2 Ω - 3.5 j Ω
2000 MHz	21.7 dB	46.1 Ω + 6.9 j Ω

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

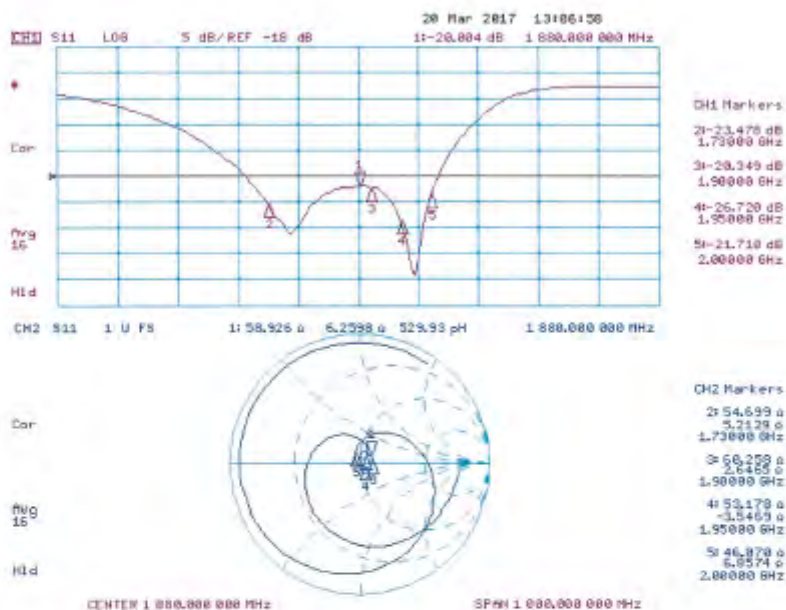
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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Impedance Measurement Plot



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DASY5 E-field Result

Date: 17.03.2017

Test Laboratory: SPEAG Lab2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: CD1880V3 - SN: 1044

Communication System: UID 0 - CW ; Frequency: 1880 MHz

Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ER3DV6 - SN2336; ConvF[1, 1, 1]; Calibrated: 30.12.2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 02.09.2016
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement @ 1880MHz/E-Scan - 1880MHz d=15mm/Hearing Aid Compatibility Test (41x181x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 162.5 V/m; Power Drift = -0.03 dB

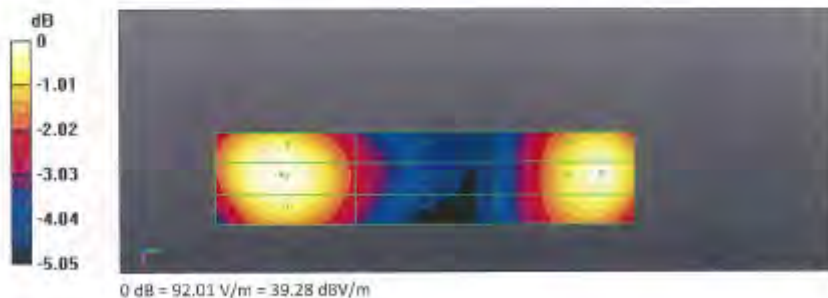
Applied MIF = 0.00 dB

RF audio interference level = 39.28 dBV/m

Emission category: M2

MIF scaled E-field

Grid 1 M2	Grid 2 M2	Grid 3 M2
38.99 dBV/m	39.28 dBV/m	39.21 dBV/m
Grid 4 M2	Grid 5 M2	Grid 6 M2
36.9 dBV/m	37.07 dBV/m	36.98 dBV/m
Grid 7 M2	Grid 8 M2	Grid 9 M2
38.8 dBV/m	39.08 dBV/m	39.01 dBV/m



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Accreditation No.: SCS 0108

Client: Sporton-TW (Auden)

Certificate No.: CD2600V3-1010_Nov16

CALIBRATION CERTIFICATE

Object: CD2600V3 - SN: 1010
Calibration procedure(s): QA CAL-20.v6
Calibration procedure for dipoles in air

Calibration date: November 17, 2016

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the client laboratory facility: environment temperature (22 ± 0.1)°C and humidity < 70%.

Calibration Equipment used (M&E critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104776	06-Apr-16 (No. 217-02285/02286)	Apr-17
Power sensor NRP-J20	SN: 103244	06-Apr-16 (No. 217-02285)	Apr-17
Power sensor NRP-291	SN: 103245	06-Apr-16 (No. 217-02285)	Apr-17
Reference 20 dB Attenuator	SN: 5858 (20a)	05-Apr-16 (No. 217-02286)	Apr-17
Type-N mismatch combination	SN: 50472 (08327)	05-Apr-16 (No. 217-02286)	Apr-17
Probe EF30V3	SN: 4013	21-Jun-16 (No. EFS-4043_Jun16)	Jun-17
DAE-4	SN: 781	02-Sep-16 (No. DAE4-781_Sep16)	Sep-17

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter Agilent 4419B	SN: G842420191	06-Oct-09 (in house check Sep-14)	in house check: Oct-17
Power sensor HP EA412A	SN: U5316466103	05-Jan-10 (in house check: Sep-14)	in house check: Oct-17
Power sensor HP 8192A	SN: U5317209597	06-Oct-09 (in house check: Sep-14)	in house check: Oct-17
RF generator 1145 BMT-Oh	SN: 83283011	07-Aug-12 (in house check Oct-16)	in house check: Oct-17
NH&K Antenna HP 8753E	SN: U531940885	19-Oct-01 (in house check Oct-16)	in house check: Oct-17

Calculated by: Lail Klyne
Approved by: Katja Polovic
Function: Laboratory Technician
Technical Manager
Signature: [Signature]
[Signature]
Issued: November 16, 2016

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Certificate No.: CD2600V3-1010_Nov16

Page 1 of 5

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Accreditation No.: SCS 0108

References

- [1] ANSI C63.19-2011
American National Standard: Methods of Measurement of Compatibility between Wireless Communications
Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- **Coordinate System:** y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna, (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes. In accordance with the standards [1], the measurement planes (probe sensor center) are selected to be at a distance of 15 mm above the top metal edge of the dipole arms.
- **Measurement Conditions:** Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- **Antenna Positioning:** The dipole is mounted on a HAC Test Arch phantom using the matching dipole postholder with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole postholder with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (top of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- **Feed Point Impedance and Return Loss:** These parameters are measured using a HP 8753E Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminated by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- **E-field distribution:** E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (160 or 300mm). The sensor center is 15 mm (in z) above the metal tip of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No.: GD290/W3-1010-109/16

Page 2 of 5

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.0.8
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	2500 MHz \pm 1 MHz	
Input power drift	\pm 0.05 dB	

Maximum Field values at 2500 MHz

E-field 15 mm above dipole surface	condition	interpolated maximum
Maximum measured above high end	100 mW input power	83.6 V/m = 38.45 dBV/m
Maximum measured above low end	100 mW input power	82.8 V/m = 38.27 dBV/m
Averaged maximum above arm	100 mW input power	83.3 V/m \pm 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)**Antenna Parameters**

Frequency	Return Loss	Impedance
2450 MHz	24.7 dB	45.4 Ω - 3.1 $j\Omega$
2550 MHz	32.0 dB	51.8 Ω + 1.6 $j\Omega$
2650 MHz	26.8 dB	54.7 Ω - 0.9 $j\Omega$
2750 MHz	26.5 dB	53.3 Ω - 3.6 $j\Omega$
2750 MHz	18.6 dB	45.9 Ω - 10.3 $j\Omega$

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two-stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DKG signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

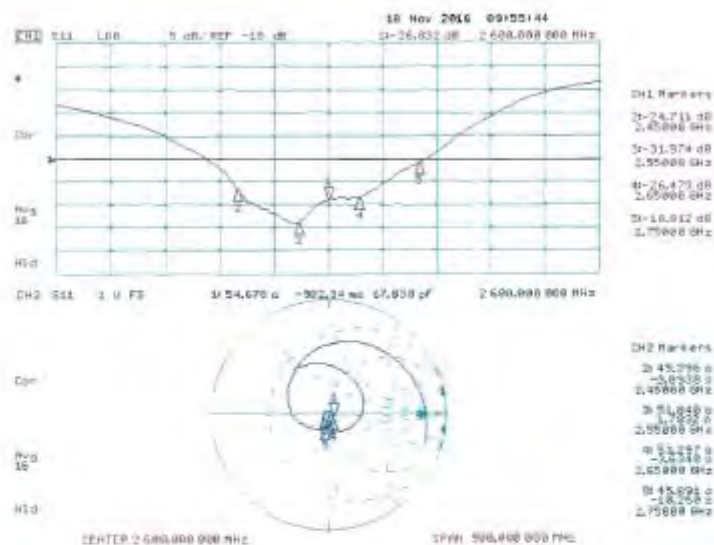
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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Impedance Measurement Plot



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DASY5 E-field Result

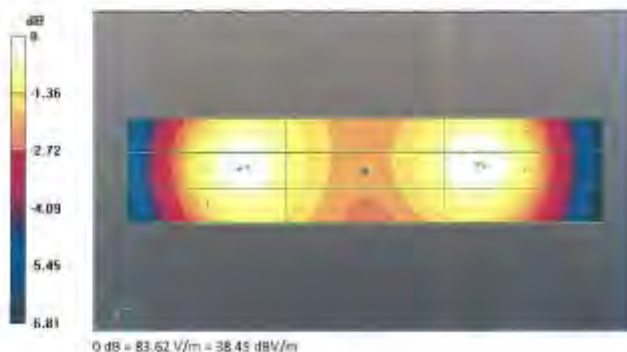
Date: 17.11.2016

Test Laboratory: 579/AG Lab2
DUT: HAC Dipole 2600 MHz; Type: CD2600V3; Serial: CD2600V3-SN: 1010
 Communication System: UTD 0 - CW; Frequency: 2600 MHz
 Medium parameters used: $\theta = 0.5\text{m}$, $\epsilon = 1$; $\rho = 1000\text{ kg/m}^3$
 Phantom section: RP Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
 DASY5 Configuration:
 * Probe: EF3DV3 - SN4013; ConvT(1, 1, 1); Calibrated: 21.06.2016
 * Sensor Surface: (Fix Surface)
 * Electronics: DAE4-Sn781; Calibrated: 02.09.2016
 * Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
 * DASY5: 52.8.8(1258); SEMCAD X 14.6.10(7377)

Dipole E-Field measurement @ 2600MHz - with EF_4013/1-Scan - 2600MHz d=15mm/Hearing Aid Compatibility Test
 (41x181x1): Interpolated grid: dx=0.5000 mm; dy=0.5000 mm
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 65.32 V/m; Power Drift = -0.11 dB
 PMR not calibrated; PMF = 1.000 is applied
 E-field emissions = 83.62 V/m
 Near-field category: M3 (AWF 0 dB)

PMR scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
80.96 V/m	82.88 V/m	82.21 V/m
Grid 4 M3	Grid 5 M3	Grid 6 M3
76.86 V/m	78.25 V/m	77.78 V/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
81.57 V/m	83.62 V/m	82.79 V/m



End of 1st part of report

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