TESTING CERT #3478.01

TEST REPORT

EUT Description	**GSM, W-CDMA and LTE Cellular adapter card**
Brand Name	**Intel**
Model Name	**7262M2WW**
Serial Number	**IMEI: 004402523024945 / 004402523014110 / 004402523024556/ 004402523013260 / 004402523023640** (see section 4)
FCC/IC ID	**FCC ID: PD97262WW / IC ID: 1000M-7262WW**
Antenna type	**Dipole, Pulse, Part Number SPDA24700/2700**
Hardware/Software Version	**HW PR2.1, SW 1449**
Date of Sample Receipt	**2014-11-25**
End of Test Date	**2014-03-17**
Features	**2G: GSM/GPRS/EDGE 850 / 1900** **3G: WCDMA/HSPA/DC-HSDPA FDD II / IV / V** **4G: LTE-FDD 2, 4, 5, 7, 12, 13, 17, 26** **LTE-TDD 41** (see section 5)

Applicant	**Intel Mobile Communication**
Address	**"Le Navigator" BatB** **505 route des Lucioles** **06560 Valbonne – Sophia Antipolis** **France**
Contact Person	**Wilfrid D'Angelo**
Telephone/Fax/ Email	**wilfrid.dangelo@intel.com**

Reference Standards	**FCC CFR Title 47 Part 2, 22, 24, 27, 90** **RSS 130 issue1, RSS 132 issue 3, RSS 133 issue 6, RSS 139 issue 2, RSS 199 issue 2, RSS Gen issue 4** (see section 1)

Test Report number	**14112501.TR07**
Revision Control	**Rev. 00**

The test results relate only to the samples tested.
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Olivier FARGANT (Test Operator)	Jose M. FORTES (Technical Manager)	Nawfal ASRIH (Laboratory Manager)

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1. Standards, reference documents and applicable test methods

1. FCC 47 CFR part 2 – Subpart J - EQUIPMENT AUTHORIZATION PROCEDURES.
2. FCC 47 CFR part 22 – Subpart H - Cellular Radiotelephone Service.
3. FCC 47 CFR part 24 – Subpart E - Broadband PCS.
4. FCC 47 CFR part 27 – Subpart L – 1695 - 1710, 1710 - 1755 MHz, 1755 - 1780 MHz, 2110 - 2155 MHz, 2155 - 2180 MHz, 2180-2200 MHz Bands.
5. FCC OET KDB 971168 D01 v02r02 Measurement guidance for certification of licensed digital transmitters.
6. FCC OET KDB 971168 D01 v02r02 Measurement guidance for certification of licensed digital transmitters.
7. RSS-Gen – General Requirements for Compliance of Radio Apparatus.
8. RSS130 issue 1 – Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698 - 756 MHz and 777 - 787 MHz
9. RSS 132 issue 3 – Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz.
10. RSS 133 issue 6 – 2 GHz Personal Communications Services.
11. RSS 139 issue 2 – Advanced Wireless Services Equipment Operating in the Bands 1710 - 1755 MHz and 2110 - 2155 MHz.
12. RSS-199 – Broadband Radio Service (BRS) Equipment Operating in the Band 2500 - 2690 MHz.
13. TIA 603 – D June 2010 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
14. ANSI C63.4-2009 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2. General conditions, competences and guarantees

- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA).
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm listed by the FCC, with Designation Number FR0011.
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by IC, with IC Assigned Code 1000Y.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
- ✓ Complete or partial reproduction of the report cannot be made without written permission of Intel WRF Lab.

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3. Environmental Conditions

✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	22ºC ± 2ºC
Humidity	45% ± 8%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note
#01	14112501.S05	Module	7262M2WW	004402523024945	2015-01-12	Used for conducted tests
	14112501.S10	Module	7262M2WW	004402523014110	2015-02-10	
	14112401.S09	Extender	NGFF Carrier board Rev 1.1	NA	2014-11-25	
#02	14112401.S04	Module	7262M2WW	004402523024556	2014-11-24	Used for radiated tests
	14112401.S07	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S08	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
#04	15021011.S11	Module	7262M2WW	004402523013260	2015-02-10	Used for radiated tests
	14112401.S07	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S08	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
#05	44937/001	Module	7262M2WW	004402523023640	2015-01-21	Used for subcontracted results (Frequency stability)
	43903B/001	Extender	NGFF Carrier board Rev 2.0	NA	2014-09-30	

NA: Not Applicable

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5. EUT features

These are the detailed bands and modes supported by the Equipment Under Test:

GSM / GPRS / EDGE	GSM 850 (824.0 – 849.0 MHz) PCS 1900 (1850.0 – 1910.0 MHz)
WCDMA / HSPA+	FDD II (1850.0 – 1910.0 MHz) FDD IV (1710.0 – 1755.0 MHz) FDD V (824.0 – 849.0 MHz)
LTE FDD	Band 2 (1850.0 – 1910.0 MHz) Band 4 (1710.0 – 1755.0 MHz) Band 5 (824.0 – 849.0 MHz) Band 7 (2500 – 2570 MHz) Band 12 (699 – 716 MHz) Band 13 (777 – 787 MHz) Band 17 (704.0 – 716.0 MHz) Band 26 (814 – 849 MHz)
LTE TDD	Band 41 (2496 – 2690 MHz)

Emission designator for IC cert:

LTE emission designator

Band	Type of modulation	
	QPSK	16QAM
LTE Band 2, Bandwidth 1.4MHz	1M11G7D	1M11W7D
LTE Band 2, Bandwidth 3MHz	2M73G7D	2M74W7D
LTE Band 2, Bandwidth 5MHz	4M52G7D	4M52W7D
LTE Band 2, Bandwidth 10MHz	9M04G7D	9M04W7D
LTE Band 2, Bandwidth 15MHz	13M5G7D	13M5W7D
LTE Band 2, Bandwidth 20MHz	17M92G7D	17M91W7D
LTE Band 4, Bandwidth 1.4MHz	1M11G7D	1M11W7D
LTE Band 4, Bandwidth 3MHz	2M73G7D	2M72W7D
LTE Band 4, Bandwidth 5MHz	4M53G7D	4M51W7D
LTE Band 4, Bandwidth 10MHz	9M04G7D	9M02W7D
LTE Band 4, Bandwidth 15MHz	13M57G7D	13M51W7D
LTE Band 4, Bandwidth 20MHz	17M87G7D	17M9W7D
LTE Band 5, Bandwidth 1.4MHz	1M10G7D	1M10W7D
LTE Band 5, Bandwidth 3MHz	2M74G7D	2M73W7D
LTE Band 5, Bandwidth 5MHz	4M51G7D	4M51W7D
LTE Band 5, Bandwidth 10MHz	9M04G7D	9M03W7D
LTE Band 12, Bandwidth 1.4MHz	1M11G7D	1M10W7D
LTE Band 12, Bandwidth 3MHz	2M74G7D	2M73W7D
LTE Band 12, Bandwidth 5MHz	4M50G7D	4M51W7D
LTE Band 12, Bandwidth 10MHz	9M03G7D	9M04W7D

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Band	Type of modulation	
	QPSK	16QAM
LTE Band 17, Bandwidth 5MHz	4M52G7D	4M54W7D
LTE Band 17, Bandwidth 10MHz	9M05G7D	9M02W7D
LTE Band 13, Bandwidth 5MHz	4M51G7D	4M51W7D
LTE Band 13, Bandwidth 10MHz	8M99G7D	8M98W7D
LTE Band 26, Bandwidth 1.4MHz	1M10G7D	1M10W7D
LTE Band 26, Bandwidth 3MHz	2M72G7D	2M73W7D
LTE Band 26, Bandwidth 5MHz	4M51G7D	4M52W7D
LTE Band 26, Bandwidth 10MHz	9M05G7D	9M04W7D
LTE Band 26, Bandwidth 15MHz	13M65G7D	13M52W7D
LTE Band 41, Bandwidth 5MHz	4M52G7D	4M54W7D
LTE Band 41, Bandwidth 10MHz	9M02G7D	9M01W7D
LTE Band 41, Bandwidth 15MHz	13M5G7D	13M5W7D
LTE Band 41, Bandwidth 20MHz	17M9G7D	17M9W7D
LTE Band 7, Bandwidth 5MHz	4M51G7D	4M51W7D
LTE Band 7, Bandwidth 10MHz	9M04G7D	9M02W7D
LTE Band 7, Bandwidth 15MHz	13M6G7D	13M5W7D
LTE Band 7, Bandwidth 20MHz	17M9G7D	17M9W7D

6. Remarks and comments

1. The frequency stability test results, detailed in Annex B, were performed at AT4 wireless S.A., PTA – C/ Severo Ochoa 2, 29590, Málaga, SPAIN.
2. According to Applicants declaration, tetween the EUT version HW PR2.0, SW 1445 and EUT version HW PR2.1, SW 1449, there are no differences regarding the LTE band 2, 4, 5, 17. For these band only worst case found on PR2.0 are reported (Annex C). More tests results can be found on the EUT HW PR2.0, SW 1445, see test reports reference 14112501.TR01 revision 01 and 14112501.TR02 revision 01.

7. Test Verdicts summary

Mode	Band	FCC part	RSS part	Test name	Verdict
LTE	2	2.1046	Gen-ch.6.12	Conducted output power	P
		24.238	-	Emission bandwidth 26dB	P
		24.232	133-ch.6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
		24.232	133-ch.6.4	Peak to average ratio	P
		24.235, 2.1055	133-ch.6.3	Frequency Stability	P
		24.238	133-ch.6.5.1	Conducted band-edge	P
		24.238	133-ch.6.5.1	Conducted spurious emission	P
		24.238	133-ch.6.5.1	Radiated spurious emission	P

P: Pass
F: Fail
NM: Not Measured
NA: Not Applicable

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Mode	Band	FCC part	RSS part	Test name	Verdict
LTE	4	2.1046	Gen-ch.6.12	Conducted output power	P
		27.53	139-ch.2.3	Emission bandwidth 26dB	P
		27.50	139-ch.6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
			139-ch.6.4	Peak to average ratio	P
		27.54, 2.1055	139-ch.6.3	Frequency Stability	P
		27.53, 2.1051	139-ch.6.5	Conducted band-edge	P
		27.53	139-ch.6.5	Conducted spurious emission	P
		27.53, 2.1053	139-ch.6.5	Radiated spurious emission	P
LTE	5	2.1046	Gen-ch.6.12	Conducted output power	P
		2.1049	-	Occupied bandwidth (99%)	P
		22.917	-	Occupied bandwidth (26dB)	P
		22.355, 2.1055	132-ch.5.3	Frequency Stability	P
		22.917, 2.1051	132-ch.5.5	Band Edge conducted emission	P
		22.917, 2.1051	132-ch.5.5	Spurious emission	P
		22.913	132-ch.5.4	Effective radiated power	P
		22.917, 2.1053	132-ch.5.5	Radiated spurious emission	P
		-	132-ch.5.4	Peak-to-average power ratio	P
LTE	7	2.1046	Gen-ch.6.12	Conducted output power	P
		27.53	139-ch.2.3	Emission bandwidth 26dB	P
		27.50	139-ch.6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
		-	139-ch.6.4	Peak to average ratio	P
		27.54, 2.1055	139-ch.6.3	Frequency Stability	P
		27.53, 2.1051	139-ch.6.5	Conducted band-edge	P
		27.53	139-ch.6.5	Conducted spurious emission	P
		27.53, 2.1053	139-ch.6.5	Radiated spurious emission	P
LTE	12	2.1046	Gen-ch.6.12	Conducted output power	P
		27.53	139-ch.2.3	Emission bandwidth 26dB	P
		27.50	139-ch.6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
		-	139-ch.6.4	Peak to average ratio	P
		27.54, 2.1055	139-ch.6.3	Frequency Stability	P
		27.53, 2.1051	139-ch.6.5	Conducted band-edge	P
		27.53	139-ch.6.5	Conducted spurious emission	P
		27.53, 2.1053	139-ch.6.5	Radiated spurious emission	P

P: Pass
F: Fail
NM: Not Measured
NA: Not Applicable

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Mode	Band	FCC part	RSS part	Test name	Verdict
LTE	13	2.1046	Gen-ch.6.12	Conducted output power	P
		27.53	139-ch.2.3	Emission bandwidth 26dB	P
		27.50	139-ch.6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
		-	139-ch.6.4	Peak to average ratio	P
		27.54, 2.1055	139-ch.6.3	Frequency Stability	P
		27.53, 2.1051	139-ch.6.5	Conducted band-edge	P
		27.53	139-ch.6.5	Conducted spurious emission	P
		27.53, 2.1053	139-ch.6.5	Radiated spurious emission	P
LTE	17	2.1046	Gen-ch.6.12	Conducted output power	P
		27.53	-	Emission bandwidth 26dB	P
		27.50	130-ch.4.4	Equivalent isotropic radiated power	P
		2.1049	Gen-ch.6.6	Occupied bandwidth 99%	P
		-	130-ch.4.4	Peak to average ratio	P
		27.54, 2.1055	130-ch.4.3	Frequency Stability	P
		27.53, 2.1051	130-ch.4.6	Conducted band-edge	P
		27.53	130-ch.4.6	Conducted spurious emission	P
		27.53, 2.1053	130-ch.4.6	Radiated spurious emission	P
LTE	26	2.1046	Gen-ch.6.12	Conducted output power	P
		2.1049	Gen-ch.6.6	Occupied bandwidth (99%)	P
		22.917	-	Occupied bandwidth (26dB)	P
		22.355, 2.1055, 90.213	132-ch.5.3	Frequency Stability	P
		22.917, 2.1051, 90.691	132-ch.5.5	Band Edge conducted emission	P
		22.917, 2.1051, 90.691	132-ch.5.5	Conducted Spurious emission	P
		22.913	132-ch.5.4	Effective radiated power	P
		22.917, 2.1053, 90.691	132-ch.5.5	Radiated spurious emission	P
		-	132-ch.5.4	Peak-to-average power ratio	P
LTE	41	2.1046	Gen-ch.6.12	Conducted output power	P
		27.53	-	Emission bandwidth 26dB	P
		27.50	199-ch.4.4	Equivalent isotropic radiated power	P
		2.1049	199-ch.4.2, Gen-ch.6.6	Occupied bandwidth 99%	P
		-	-	Peak to average ratio	P
		27.54, 2.1055	199-ch.4.3	Frequency Stability	P
		27.53, 2.1051	199-ch.4.6	Conducted band-edge	P
		27.53	199-ch.4.6	Conducted spurious emission	P
		27.53, 2.1053	199-ch.4.6	Radiated spurious emission	P

P: Pass
F: Fail
NM: Not Measured
NA: Not Applicable

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8. Document Revision History

Revision #	Date	Modified by	Details
Rev. 00	2015-03-18	O. Fargant	First Issue

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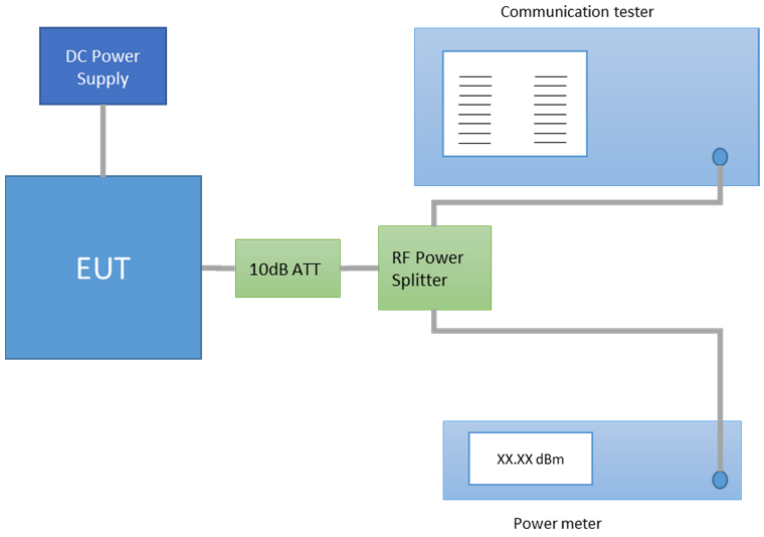
Annex A. Test & System Description

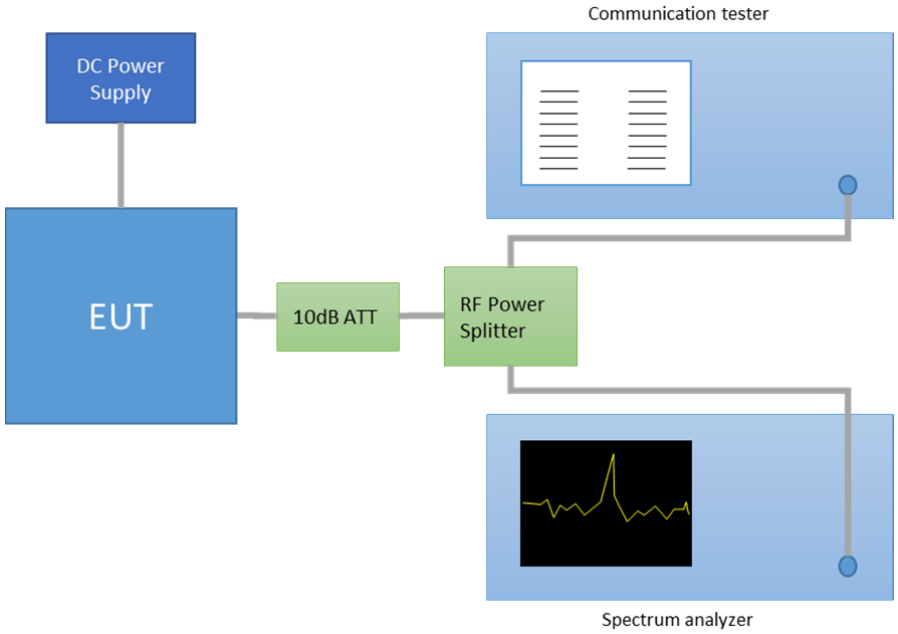
Measurement system

Measurements were performed using the following setups. A communication tester was used to establish a communication link with the EUT and the communication tester parameters were set to get the maximum output power from the EUT.

Conducted Setup 1



Conducted Setup 2



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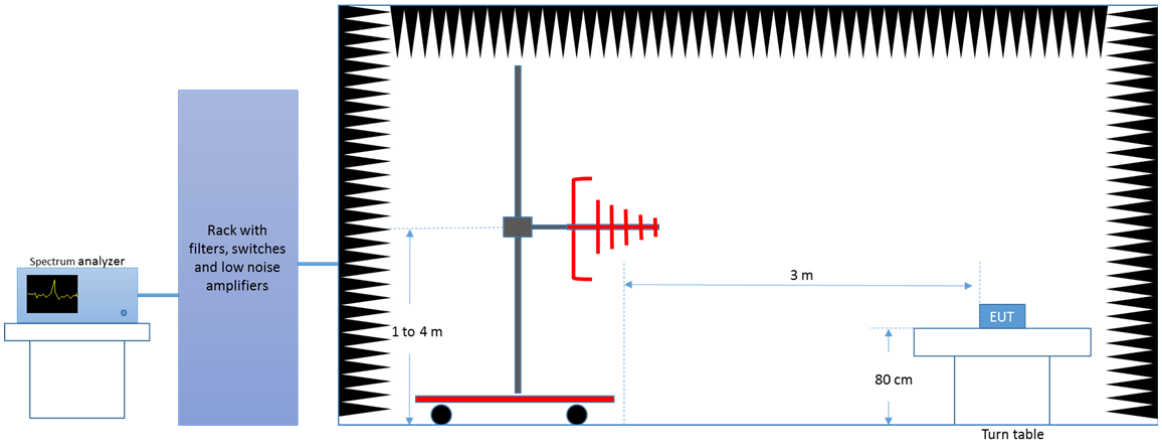
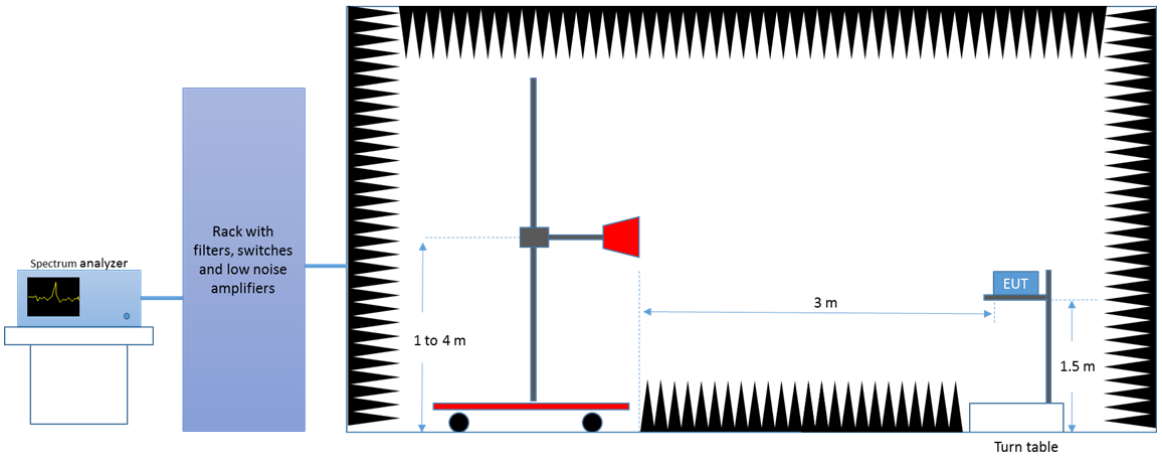
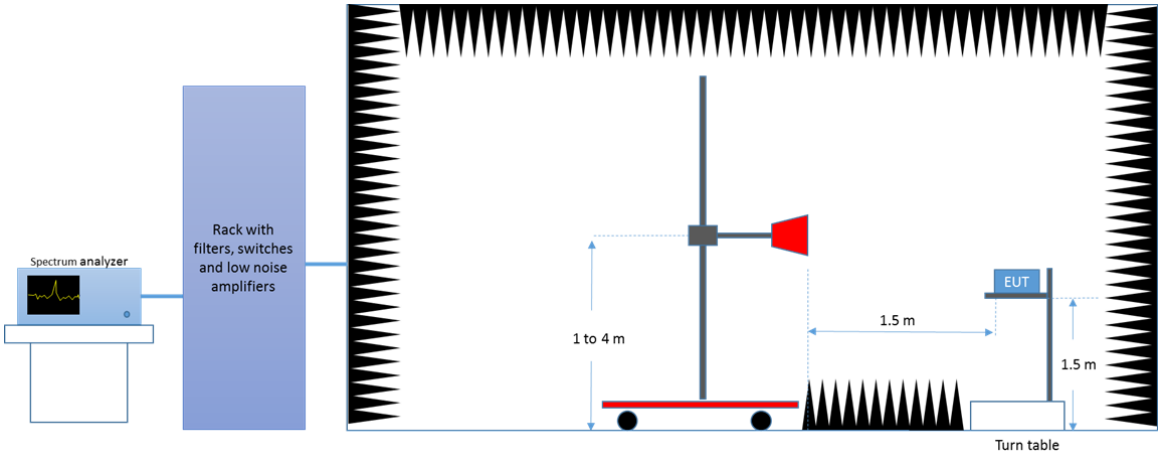
Radiated Setup < 1GHz



Radiated Setup Frequency range 1 GHz to 18 GHz



Radiated Setup > 18GHz



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Test Equipment List

Conducted Setup

ID Number	Device	Type/Model	Serial Number	Manufacturer	Calibration Date	Calibration Due Date
0100	Communication tester	CMW500	129337	Rohde & Schwarz	2013-11-07	2015-11-07
0033	Spectrum analyzer	FSV40	101072	Rohde & Schwarz	2014-01-30	2016-01-30
0046	Power splitter	11667B	MY51360447	Agilent	NA	NA
0098	USB Power sensor	NRP-Z81	102278	Rohde & Schwarz	2013-07-17	2015-07-17
NA	10 dB attenuator	NA	4882640	-	NA	NA

Radiated Setup

ID Number	Device	Type/Model	Serial Number	Manufacturer	Calibration Date	Calibration Due Date
0210	Communication tester	CMW500	147712	Rohde & Schwarz	NA	NA
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2014-05-03	2016-05-03
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2014-05-03	2016-05-03
0138	Hors antenna 1 GHz – 18 GHz	3117	00152266	ETS Lindgren	2014-03-04	2016-03-04
0141	Horn Antenna + Pre-Amplifier 1 GHz – 18 GHz	3117P	00157736	ETS Lindgren	2014-06-03	2016-06-03
0139	Horn Antenna 18 GHz – 26 GHz	114514	00167100	ETS Lindgren	2014-04-25	2016-04-25
0135	Anechoic chamber	FACT 3	RFD_FA_100	ETS Lindgren	NA	NA

Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

Measurement type	Uncertainty [±dB]
Conducted Power (power meter)	± 1.0
Conducted spurious emission	± 2.9
Radiated test < 1GHz	± 3.8
Radiated test 1GHz - 27 GHz	± 4.7

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Annex A. Test Results

Test Conditions

For cellular transmission modes LTE, the device was put into operation by using an R&S CMW 500 as base station simulator.

The output power of the device was set to transmit at maximum power for all tests.

Test results

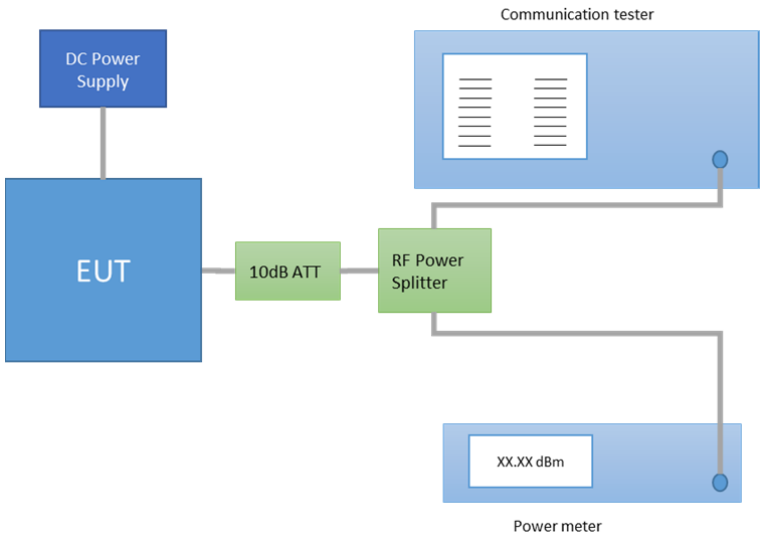
A.1.1 Conducted RF output power

Test limits

BAND	FCC part	RSS part	Power Limits [Watts]	Max Antenna Gain [dBi]	Power Limit at antenna terminal [dBm]
LTE 12, 13, 7	2.1046, 27.50	139-ch.6.4 Gen-ch.6.12	< 3 watts ERP	2.0	< 32.8
LTE 26	2.1046, 22.913	132-ch.5.4, Gen-ch.6.12	< 7 watts ERP	2.0	< 36.5
LTE41	2.1046, 27.50	199-ch.4.4, Gen-ch.6.12	< 3 watts ERP	2.0	< 32.8

Test procedure

The setup below was used to measure the conducted output power. The antenna terminal of the EUT is connected to the power meter and the communication tester through an attenuator and a power splitter. The power meter reading is compensated to include the RF. This test was performed according to the KDB 971168 D01 § 5.2.



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Results tables

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 12	1.4	23017	699.7	QPSK	1	0	23.0	28.6
						2	22.6	28.7
						5	23.0	28.6
					3	0	22.9	28.7
						1	22.8	28.7
						2	22.8	28.7
					6	0	21.9	28.5
				16QAM	1	0	22.2	28.7
						2	21.7	28.7
						5	22.2	28.6
					3	0	22.0	28.7
						1	21.9	28.7
						2	21.9	28.7
					6	0	21.1	28.4
		23095	707.5	QPSK	1	0	**23.1**	29.3
						2	22.7	29.2
						5	23.1	29.3
					3	0	22.9	29.3
						1	22.8	29.4
						2	22.8	29.4
					6	0	21.9	29.2
				16QAM	1	0	**22.2**	29.3
						2	21.7	29.2
						5	22.1	29.3
					3	0	21.9	29.4
						1	21.8	29.4
						2	21.8	29.4
					6	0	21.1	29.3
		23173	715.3	QPSK	1	0	22.9	28.0
						2	22.5	28.1
						5	22.9	28.1
					3	0	22.8	28.1
						1	22.7	28.1
						2	22.7	28.1
					6	0	**21.8**	28.0
				16QAM	1	0	22.1	28.1
						2	21.7	28.1
						5	22.1	28.2
					3	0	21.9	28.1
						1	21.8	28.1
						2	21.8	28.1
					6	0	**21.0**	28.0

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 12	3	23025	700.5	QPSK	1	0	23.1	28.6
						7	23.1	28.5
						14	23.0	28.5
					8	0	22.0	28.3
						4	22.0	28.2
						7	22.0	28.2
					15	0	22.0	28.2
				16QAM	1	0	22.1	28.6
						7	22.1	28.6
						14	22.0	28.5
					8	0	21.1	28.4
						4	21.1	28.3
						7	21.1	28.3
					15	0	21.1	28.4
		23095	707.5	QPSK	1	0	23.0	29.1
						7	**23.1**	29.2
						14	22.9	29.1
					8	0	22.0	29.0
						4	22.0	29.1
						7	22.0	29.1
					15	0	22.0	29.0
				16QAM	1	0	**22.2**	28.9
						7	22.2	28.9
						14	22.1	28.9
					8	0	21.1	29.1
						4	21.1	29.1
						7	21.2	29.0
					15	0	21.1	28.9
		23165	714.5	QPSK	1	0	22.9	28.3
						7	23.0	28.0
						14	22.8	28.1
					8	0	21.9	27.8
						4	21.8	27.8
						7	**21.8**	27.7
					15	0	21.8	27.9
				16QAM	1	0	22.1	28.4
						7	22.2	28.1
						14	22.1	28.2
					8	0	21.1	27.9
						4	21.0	27.9
						7	21.1	27.9
					15	0	**21.0**	27.9

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 12	5	23035	701.5	QPSK	1	0	22.7	28.5
						12	22.8	28.3
						24	22.7	28.3
					12	0	21.9	28.3
						6	21.8	28.2
						11	21.9	28.1
					25	0	21.8	27.9
				16QAM	1	0	21.9	28.3
						12	21.9	28.2
						24	21.9	28.2
					12	0	21.0	28.3
						6	20.9	28.2
						11	21.0	28.2
					25	0	20.9	28.0
		23095	707.5	QPSK	1	0	22.7	28.7
						12	**22.8**	29.3
						24	22.7	29.0
					12	0	21.9	28.8
						6	21.8	29.0
						11	21.9	28.9
					25	0	21.8	28.5
				16QAM	1	0	21.8	28.6
						12	**21.9**	29.2
						24	21.8	29.0
					12	0	21.0	28.8
						6	21.0	28.9
						11	21.0	28.9
					25	0	20.9	28.3
		23155	713.5	QPSK	1	0	22.7	28.8
						12	22.7	28.3
						24	22.6	28.1
					12	0	21.8	28.2
						6	21.7	28.0
						11	**21.7**	27.8
					25	0	21.7	28.1
				16QAM	1	0	21.8	28.6
						12	21.7	28.1
						24	21.7	28.0
					12	0	20.9	28.2
						6	20.8	27.9
						11	20.8	27.8
					25	0	**20.9**	28.0

Min Values
Max Values

Printed copies are not controlled documents

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 12	10	23060	704.0	QPSK	1	0	22.9	28.6
						24	22.9	28.6
						49	22.9	29.2
					25	0	21.9	28.0
						12	21.8	28.1
						24	21.9	28.9
					50	0	21.9	28.6
				16QAM	1	0	22.1	28.7
						24	22.1	28.6
						49	**22.1**	29.2
					25	0	21.0	28.0
						12	21.0	28.0
						24	21.0	28.4
					50	0	21.0	28.6
		23095	707.5	QPSK	1	0	22.9	28.4
						24	**22.9**	29.3
						49	22.7	28.5
					25	0	21.9	28.0
						12	21.8	28.0
						24	21.8	28.1
					50	0	21.8	28.3
				16QAM	1	0	22.0	28.4
						24	21.9	29.3
						49	21.8	28.6
					25	0	21.0	28.0
						12	20.9	28.1
						24	20.9	28.1
					50	0	21.0	28.5
		23130	711.0	QPSK	1	0	22.9	29.0
						24	22.8	28.6
						49	22.7	27.9
					25	0	21.9	28.6
						12	21.8	28.2
						24	**21.7**	27.8
					50	0	21.8	28.4
				16QAM	1	0	22.1	28.9
						24	21.9	28.4
						49	21.8	27.9
					25	0	21.0	28.7
						12	20.8	28.2
						24	**20.8**	27.8
					50	0	20.9	28.2

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 13	5	23205	779.5	QPSK	1	0	**23.2**	27.8
						12	23.1	28.1
						24	23.0	28.4
					12	0	22.3	27.1
						6	22.2	27.0
						11	22.3	27.2
					25	0	22.3	27.5
				16QAM	1	0	**22.3**	27.5
						12	22.4	28.1
						24	22.2	28.3
					12	0	21.3	27.1
						6	21.2	27.0
						11	21.2	27.1
					25	0	21.2	27.4
		23230	782.0	QPSK	1	0	23.1	27.5
						12	23.1	28.2
						24	22.9	28.3
					12	0	22.2	27.6
						6	**22.1**	27.8
						11	22.1	28.1
					25	0	22.2	27.8
				16QAM	1	0	22.2	27.5
						12	22.2	28.4
						24	22.1	28.3
					12	0	21.1	27.4
						6	21.1	27.8
						11	21.1	28.1
					25	0	21.1	27.7
		23255	784.5	QPSK	1	0	23.0	28.2
						12	23.0	28.4
						24	22.9	27.6
					12	0	22.2	28.1
						6	22.1	27.9
						11	22.1	27.6
					25	0	22.1	27.6
				16QAM	1	0	22.1	28.2
						12	22.1	28.4
						24	21.9	27.5
					12	0	21.1	28.0
						6	21.0	27.9
						11	**21.0**	27.6
					25	0	21.0	27.7

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 13	10	23230	782.0	QPSK	1	0	**23.6**	27.3
						24	23.0	28.4
						49	22.6	27.8
					25	0	22.4	27.9
						12	22.2	28.0
						24	**22.2**	27.7
					50	0	22.3	28.2
				16QAM	1	0	**22.8**	27.2
						24	22.2	28.6
						49	21.8	27.8
					25	0	21.3	27.8
						12	21.2	28.0
						24	**21.2**	27.7
					50	0	21.2	28.3

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	1.4	26697	814.7	QPSK	1	0	**20.3**	26.5
						2	20.8	26.5
						5	21.3	26.5
					3	0	23.0	28.0
						1	22.9	27.9
						2	22.8	27.8
					6	0	22.0	27.8
				16QAM	1	0	**20.3**	26.6
						2	20.8	27.3
						5	21.2	27.2
					3	0	**22.0**	27.9
						1	21.9	27.9
						2	21.9	27.8
					6	0	21.0	27.8
		26865	831.5	QPSK	1	0	**23.0**	28.2
						2	22.6	28.3
						5	23.0	28.1
					3	0	22.8	28.4
						1	22.7	28.4
						2	22.7	28.3
					6	0	21.8	27.2
				16QAM	1	0	22.0	27.7
						2	21.6	27.9
						5	22.0	27.9
					3	0	21.9	28.4
						1	21.7	28.4
						2	21.7	28.3
					6	0	20.9	27.2
		27033	848.3	QPSK	1	0	22.6	27.3
						2	22.2	27.4
						5	22.6	26.7
					3	0	22.5	27.4
						1	22.3	27.2
						2	22.3	27.2
					6	0	21.4	27.2
				16QAM	1	0	21.7	27.2
						2	21.3	27.1
						5	21.7	27.0
					3	0	21.4	27.5
						1	21.3	27.4
						2	21.3	27.4
					6	0	20.4	26.4

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	3	26705	815.5	QPSK	1	0	20.2	26.3
						7	**20.2**	26.1
						14	21.1	27.0
					8	0	22.0	27.7
						4	22.0	27.6
						7	22.1	27.4
					15	0	22.0	27.6
				16QAM	1	0	**20.2**	26.7
						7	20.4	26.5
						14	21.2	27.6
					8	0	21.1	27.7
						4	21.1	27.5
						7	21.1	27.4
					15	0	21.0	27.6
		26865	831.5	QPSK	1	0	22.9	28.6
						7	**23.0**	28.1
						14	22.9	28.1
					8	0	21.9	27.1
						4	21.9	27.0
						7	21.8	26.8
					15	0	21.8	26.9
				16QAM	1	0	21.9	28.3
						7	**22.0**	27.9
						14	21.9	27.8
					8	0	20.9	27.1
						4	20.9	27.0
						7	20.9	27.0
					15	0	20.8	27.0
		27025	847.5	QPSK	1	0	22.6	27.6
						7	22.6	27.6
						14	22.5	27.3
					8	0	21.6	26.6
						4	21.6	26.4
						7	21.5	26.3
					15	0	21.6	26.5
				16QAM	1	0	21.8	27.8
						7	21.8	27.7
						14	21.6	27.2
					8	0	20.6	26.8
						4	20.6	26.6
						7	20.6	26.5
					15	0	20.6	26.5

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	5	26715	816.5	QPSK	1	0	20.9	26.6
						12	**20.8**	26.2
						24	20.8	26.4
					12	0	21.9	27.6
						6	21.9	27.4
						11	21.8	27.3
					25	0	21.9	27.6
				16QAM	1	0	21.0	27.1
						12	21.0	26.9
						24	20.9	26.8
					12	0	20.9	27.5
						6	20.9	27.3
						11	20.9	27.3
					25	0	20.9	27.5
		26865	831.5	QPSK	1	0	22.6	27.5
						12	**22.6**	27.8
						24	22.5	27.3
					12	0	21.8	27.0
						6	21.7	26.8
						11	21.7	26.6
					25	0	21.7	26.7
				16QAM	1	0	21.7	27.5
						12	**21.8**	27.1
						24	21.6	27.7
					12	0	20.7	27.1
						6	20.7	26.9
						11	20.7	26.7
					25	0	20.7	26.6
		27015	846.5	QPSK	1	0	22.4	27.9
						12	22.4	27.2
						24	22.2	26.5
					12	0	21.5	27.2
						6	21.4	26.9
						11	21.4	26.6
					25	0	21.4	26.9
				16QAM	1	0	21.5	27.9
						12	21.4	27.4
						24	21.4	27.4
					12	0	20.4	27.3
						6	20.4	27.0
						11	**20.4**	26.7
					25	0	20.4	27.0

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	10	26740	819.0	QPSK	1	0	21.1	26.8
						24	21.0	26.5
						49	**20.8**	27.4
					25	0	21.9	27.6
						12	21.9	27.8
						24	21.9	28.3
					50	0	22.0	28.4
				16QAM	1	0	21.3	28.0
						24	21.2	27.7
						49	21.1	27.9
					25	0	21.0	27.6
						12	20.9	27.7
						24	20.9	28.2
					50	0	20.9	28.2
		26865	831.5	QPSK	1	0	**22.9**	28.5
						24	22.8	28.0
						49	22.6	27.4
					25	0	21.9	27.1
						12	21.7	26.7
						24	21.7	27.6
					50	0	21.8	27.1
				16QAM	1	0	**22.0**	28.1
						24	21.8	27.9
						49	21.7	27.5
					25	0	20.8	27.2
						12	20.7	26.8
						24	20.7	26.3
					50	0	20.7	27.1
		26990	844.0	QPSK	1	0	22.7	27.7
						24	22.5	28.1
						49	22.4	26.7
					25	0	21.7	27.7
						12	21.6	27.6
						24	21.5	27.1
					50	0	21.6	27.7
				16QAM	1	0	21.8	27.9
						24	21.7	28.1
						49	21.6	26.8
					25	0	20.6	27.8
						12	20.5	27.6
						24	**20.4**	27.2
					50	0	20.5	27.7

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	15	26765	821.5	QPSK	1	0	20.9	26.3
						37	20.9	26.9
						74	**20.7**	26.7
					36	0	21.9	26.7
						16	21.8	27.1
						35	21.8	27.7
					75	0	21.8	27.4
				16QAM	1	0	21.0	26.5
						37	20.9	27.3
						74	20.7	27.4
					36	0	20.9	26.5
						16	20.8	27.1
						35	20.8	27.6
					75	0	20.8	27.4
		26865	831.5	QPSK	1	0	22.5	28.0
						37	**22.6**	27.2
						74	22.2	26.8
					36	0	21.8	27.3
						16	21.6	26.6
						35	21.7	27.6
					75	0	21.7	27.3
				16QAM	1	0	**21.8**	28.2
						37	21.7	27.8
						74	21.5	27.4
					36	0	20.9	27.2
						16	20.7	26.6
						35	20.7	26.3
					75	0	20.8	27.2
		26965	841.5	QPSK	1	0	22.5	26.7
						37	22.4	27.8
						74	22.2	26.1
					36	0	21.7	26.7
						16	21.5	27.3
						35	21.5	27.1
					75	0	21.6	27.4
				16QAM	1	0	21.6	27.0
						37	21.4	27.8
						74	21.2	26.7
					36	0	20.8	26.9
						16	20.6	27.4
						35	**20.6**	27.3
					75	0	20.6	27.5

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 7	5	20775	2502.5	QPSK	1	0	23.5	28.3
						12	23.5	28.2
						24	23.4	28.9
					12	0	22.7	28.1
						6	22.6	28.0
						11	22.6	27.9
					25	0	22.6	28.0
				16QAM	1	0	22.7	28.1
						12	22.8	27.9
						24	22.6	27.8
					12	0	21.8	28.1
						6	21.7	28.0
						11	21.7	28.0
					25	0	21.7	28.1
		21100	2535.0	QPSK	1	0	23.5	28.0
						12	**23.6**	28.2
						24	23.3	28.3
					12	0	22.6	27.9
						6	22.6	28.0
						11	22.6	28.1
					25	0	22.6	28.2
				16QAM	1	0	22.6	27.6
						12	**22.8**	28.2
						24	22.6	28.3
					12	0	21.7	27.9
						6	21.7	28.0
						11	21.7	28.1
					25	0	21.7	28.0
		21425	2567.5	QPSK	1	0	23.3	27.8
						12	23.4	28.0
						24	23.1	28.1
					12	0	22.5	28.3
						6	22.5	28.4
						11	22.5	28.4
					25	0	**22.5**	28.1
				16QAM	1	0	22.4	28.2
						12	22.6	28.3
						24	22.4	28.2
					12	0	21.6	28.3
						6	**21.6**	28.4
						11	21.7	28.4
					25	0	21.6	28.6

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 7	10	20800	2505.0	QPSK	1	0	**23.7**	28.2
						24	23.7	27.7
						49	23.5	27.5
					25	0	22.7	28.0
						12	22.6	27.9
						24	22.6	27.8
					50	0	22.6	28.1
				16QAM	1	0	22.7	28.2
						24	22.7	27.9
						49	22.5	27.6
					25	0	21.8	28.2
						12	21.8	28.0
						24	21.7	27.9
					50	0	21.7	28.2
		21100	2535.0	QPSK	1	0	23.6	27.7
						24	23.6	28.2
						49	23.4	28.4
					25	0	22.7	27.9
						12	22.7	28.1
						24	22.6	28.2
					50	0	22.7	28.3
				16QAM	1	0	22.9	27.6
						24	**22.9**	28.1
						49	22.6	28.3
					25	0	21.8	27.9
						12	21.7	28.2
						24	21.7	28.3
					50	0	21.7	28.3
		21400	2565.0	QPSK	1	0	23.5	28.3
						24	23.5	28.2
						49	23.2	28.2
					25	0	22.6	28.5
						12	22.6	28.5
						24	**22.5**	28.6
					50	0	22.5	28.7
				16QAM	1	0	22.8	28.6
						24	22.8	28.5
						49	22.6	28.5
					25	0	21.6	28.4
						12	21.6	28.5
						24	**21.6**	28.5
					50	0	21.6	28.8

Min Values
Max Values

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Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 7	15	20825	2507.5	QPSK	1	0	23.4	27.7
						37	23.4	27.3
						74	**23.5**	27.2
					36	0	22.7	27.7
						16	22.6	27.6
						35	22.6	27.5
					75	0	22.6	27.5
				16QAM	1	0	22.7	28.1
						37	**22.7**	28.2
						74	22.4	27.5
					36	0	21.8	28.0
						16	21.7	28.2
						35	21.7	28.2
					75	0	21.7	27.9
		21100	2535.0	QPSK	1	0	23.4	27.4
						37	23.4	28.1
						74	23.0	28.3
					36	0	22.7	27.6
						16	22.6	28.0
						35	22.6	28.2
					75	0	22.6	27.9
				16QAM	1	0	22.6	27.4
						37	22.5	28.1
						74	22.2	28.3
					36	0	21.9	27.7
						16	21.7	28.0
						35	21.7	28.2
					75	0	21.7	28.0
		21375	2562.5	QPSK	1	0	23.2	27.8
						37	23.2	27.8
						74	22.9	27.4
					36	0	22.6	28.0
						16	22.5	27.9
						35	**22.5**	27.7
					75	0	22.5	27.7
				16QAM	1	0	22.6	28.2
						37	22.6	27.8
						74	22.2	27.9
					36	0	21.8	28.3
						16	21.6	28.1
						35	21.6	28.1
					75	0	**21.6**	28.0

Min Values
Max Values

Printed copies are not controlled documents

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 7	20	20850	2510.0	QPSK	1	0	23.0	27.3
						49	23.4	27.0
						99	22.6	26.7
					50	0	22.8	27.4
						24	22.6	27.3
						49	22.6	27.2
					100	0	22.6	27.2
				16QAM	1	0	22.4	27.5
						49	**22.8**	28.0
						99	21.9	26.9
					50	0	21.8	27.9
						24	21.7	28.2
						49	21.7	28.3
					100	0	21.7	27.8
		21100	2535.0	QPSK	1	0	23.0	27.0
						49	**23.4**	28.1
						99	22.5	28.1
					50	0	22.7	27.5
						24	22.6	28.1
						49	22.5	28.2
					100	0	22.6	27.8
				16QAM	1	0	22.2	27.5
						49	22.6	28.2
						99	21.7	28.3
					50	0	21.8	27.6
						24	21.6	28.0
						49	21.5	28.3
					100	0	21.6	28.0
		21350	2560.0	QPSK	1	0	23.0	28.0
						49	23.3	28.0
						99	22.4	27.2
					50	0	22.6	28.4
						24	22.4	28.3
						49	**22.4**	27.8
					100	0	22.5	27.9
				16QAM	1	0	22.2	28.5
						49	22.5	28.1
						99	22.3	27.8
					50	0	21.8	28.6
						24	21.6	28.3
						49	**21.5**	28.1
					100	0	21.6	28.5

Min Values
Max Values

Printed copies are not controlled documents

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 41	5	39675	2498.5	QPSK	1	0	22.2	27.8
						12	22.2	27.6
						24	22.1	27.8
					12	0	21.3	27.4
						6	21.3	27.4
						11	21.3	27.5
					25	0	**21.3**	27.4
				16QAM	1	0	21.3	27.9
						12	21.3	27.8
						24	21.2	27.7
					12	0	20.3	27.2
						6	20.3	27.2
						11	**20.3**	27.1
					25	0	20.3	27.3
		40620	2593.0	QPSK	1	0	22.3	28.2
						12	**22.4**	28.1
						24	22.2	28.2
					12	0	21.5	27.7
						6	21.4	27.7
						11	21.4	27.6
					25	0	21.4	27.8
				16QAM	1	0	21.5	28.0
						12	21.5	27.9
						24	21.4	28.0
					12	0	20.5	27.7
						6	20.4	27.7
						11	20.5	27.7
					25	0	20.4	27.9
		41565	2687.5	QPSK	1	0	22.3	28.2
						12	22.4	28.0
						24	22.2	28.1
					12	0	21.5	27.9
						6	21.5	27.8
						11	21.5	27.9
					25	0	21.5	27.8
				16QAM	1	0	21.5	28.1
						12	**21.6**	28.2
						24	21.4	28.1
					12	0	20.5	27.7
						6	20.4	27.7
						11	20.5	27.7
					25	0	20.5	27.8

Min Values
Max Values

Printed copies are not controlled documents

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 41	10	39700	2501.0	QPSK	1	0	22.4	28.0
						24	22.4	28.0
						49	22.3	28.0
					25	0	21.4	27.3
						12	21.4	27.4
						24	**21.3**	27.4
					50	0	21.4	27.4
				16QAM	1	0	21.4	28.0
						24	21.3	27.9
						49	21.2	28.0
					25	0	20.4	27.4
						12	20.4	27.4
						24	**20.4**	27.3
					50	0	20.4	27.5
		40620	2593.0	QPSK	1	0	22.5	28.3
						24	22.5	28.2
						49	22.3	28.3
					25	0	21.6	27.9
						12	21.5	27.8
						24	21.5	27.7
					50	0	21.5	27.9
				16QAM	1	0	21.7	28.3
						24	21.6	28.2
						49	21.4	28.5
					25	0	20.5	27.8
						12	20.5	27.7
						24	20.4	27.8
					50	0	20.5	27.9
		41540	2685.0	QPSK	1	0	**22.7**	28.4
						24	22.6	28.3
						49	22.5	28.3
					25	0	21.7	27.8
						12	21.6	27.8
						24	21.5	27.7
					50	0	21.6	27.8
				16QAM	1	0	**21.7**	28.4
						24	21.6	28.2
						49	21.4	28.3
					25	0	20.6	27.8
						12	20.6	27.7
						24	20.5	27.7
					50	0	20.6	27.9

Min Values
Max Values

Printed copies are not controlled documents

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 41	15	39725	2503.5	QPSK	1	0	22.3	27.9
						37	22.3	27.8
						74	22.0	27.9
					36	0	21.6	27.5
						16	21.4	27.5
						35	**21.4**	27.5
					75	0	21.4	27.6
				16QAM	1	0	21.1	27.6
						37	21.2	27.6
						74	20.9	27.9
					36	0	20.6	27.5
						16	20.4	27.5
						35	**20.4**	27.5
					75	0	20.4	27.7
		40620	2593.0	QPSK	1	0	22.3	28.3
						37	22.3	28.2
						74	22.0	28.2
					36	0	21.7	27.9
						16	21.5	27.8
						35	21.5	27.9
					75	0	21.6	27.9
				16QAM	1	0	21.4	28.1
						37	21.4	28.0
						74	21.0	28.0
					36	0	20.7	27.8
						16	20.5	27.8
						35	20.5	27.8
					75	0	20.6	27.9
		41515	2682.5	QPSK	1	0	**22.4**	28.4
						37	22.4	28.3
						74	22.1	28.3
					36	0	21.7	27.9
						16	21.5	27.9
						35	21.5	27.9
					75	0	21.6	27.9
				16QAM	1	0	**21.6**	28.4
						37	21.5	28.3
						74	21.2	28.3
					36	0	20.7	27.9
						16	20.5	27.9
						35	20.5	27.9
					75	0	20.5	27.9

Min Values
Max Values

Printed copies are not controlled documents

Band	BW [MHz]	Channel Number	Frequency [MHz]	Modulation	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 41	20	39750	2506.0	QPSK	1	0	21.9	27.5
						49	22.2	27.7
						99	21.5	27.3
					50	0	21.6	27.5
						24	21.5	21.4
						49	**21.4**	27.5
					100	0	21.5	27.5
				16QAM	1	0	20.9	27.6
						49	21.2	27.6
						99	20.5	27.4
					50	0	20.5	27.5
						24	20.4	27.5
						49	**20.4**	27.4
					100	0	20.4	27.6
		40620	2593.0	QPSK	1	0	22.1	28.1
						49	**22.3**	28.1
						99	21.6	28.0
					50	0	21.7	28.0
						24	21.5	27.9
						49	21.4	27.9
					100	0	21.5	28.1
				16QAM	1	0	21.0	28.5
						49	21.3	28.4
						99	20.5	28.4
					50	0	20.7	27.8
						24	20.5	27.8
						49	20.4	27.8
					100	0	20.5	27.9
		41490	2680.0	QPSK	1	0	22.1	28.1
						49	22.3	28.1
						99	21.6	27.8
					50	0	21.7	27.9
						24	21.5	27.8
						49	21.5	27.8
					100	0	21.6	27.9
				16QAM	1	0	21.4	27.9
						49	**21.5**	28.0
						99	21.1	27.6
					50	0	20.7	27.9
						24	20.5	27.8
						49	20.5	27.8
					100	0	20.5	28.0

Min Values
Max Values

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