



TEST REPORT

No.I22N01710-RF-LTE

for

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: CPH2483

FCC ID: R9C-CPH2483

with

Hardware Version: 11

Software Version: ColorOS V13.0

Issued Date: 2022-11-04

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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No.I22N01710-RF-LTE

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22N01710-RF-LTE	Rev.0	1st edition	2022-11-04



CONTENTS

1. SUMMARY OF TEST REPORT	4
1.1. TEST ITEMS.....	4
1.2. TEST STANDARDS	4
1.3. TEST RESULT	4
1.4. TESTING LOCATION	4
1.5. PROJECT DATA	4
1.6. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION.....	5
2.2. MANUFACTURER INFORMATION.....	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT.....	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	6
3.4. GENERAL DESCRIPTION	7
4. REFERENCE DOCUMENTS.....	8
5. LABORATORY ENVIRONMENT.....	9
6. SUMMARY OF TEST RESULTS.....	10
7. STATEMENT	15
8. TEST EQUIPMENTS UTILIZED.....	16
ANNEX A: MEASUREMENT RESULTS	17
A.1 OUTPUT POWER	17
A.2 FIELD STRENGTH OF SPURIOUS RADIATION	141
A.3 FREQUENCY STABILITY	233
A.4 OCCUPIED BANDWIDTH.....	242
A.5 EMISSION BANDWIDTH	382
A.6 BAND EDGE COMPLIANCE.....	523
A.7 CONDUCTED SPURIOUS EMISSION	589
A.8 PEAK-TO-AVERAGE POWER RATIO	600



1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	Mobile Phone
Model Name	CPH2483
Brand Name	OPPO
Applicant's name	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Manufacturer's Name	Guangdong OPPO Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

FCC Part 2/22/24/27/90	10-1-20 Edition
ANSI C63.26	2015
KDB971168 D01	v03r01

1.3. Test Result

All test items are passed. Please refer to "6 Summary of Test Results" for detail.

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China 518000

1.5. Project Data

Testing Start Date: 2022-09-13

Testing End Date: 2022-10-30

1.6. Signature

Wang Ping
(Prepared this test report)

Huang Qiuqin
(Reviewed this test report)

Zhang Hao
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
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Guangdong, China
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2.2. Manufacturer Information

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
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Guangdong, China
Contact: Mei XiLi
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3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	Mobile Phone
Model Name	CPH2483
FCC ID	R9C-CPH2483
Frequency Bands	LTE Bands 2,4,5,7,12,13,17,26,38,41,66, CA_7C,CA_38C,CA_41C
Antenna	Integrated
Extreme vol. Limits	3.60V to 4.45V (nominal: 3.87V)
Extreme temp. Tolerance	-10°C to +55°C
Condition of EUT as received	No abnormality in appearance

Note1: Components list, please refer to documents of the manufacturer; it is also included in the original test record of SAICT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT06aa	869062060031010	11	ColorOS 13.0	2022-09-08
	869062060031002			
UT08aa	869062060033859	11	ColorOS 13.0	2022-09-13
	869062060033842			

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

UT06aa are used for conduction test, UT08aa is used for radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description
--------	-------------

AE1	Battery
AE2	Charger
AE3	USB Cable

AE1

Model	BLP923
Manufacturer	Chongqing Cosmx Battery Co., Ltd.
Capacity	4880mAh
Nominal Voltage	3.87 V

AE2

Model	VCB3HDUH
Manufacturer	SHENZHEN HUNTKEY ELECTRIC CO., LTD.
Specification	American Standard Charger

AE3

Model	DL150
Manufacturer	/

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



No.I22N01710-RF-LTE

3.4. General Description

The Equipment Under Test (EUT) is a model Mobile Phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.



4. REFERENCE DOCUMENTS

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-20 Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-20 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-20 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-20 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-20 Edition
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB971168 D01	Power Meas License Digital Systems	v03r01

5. LABORATORY ENVIRONMENT

Shielded room did not exceed following limits along the RF testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz>60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	>2 M Ω
Ground system resistance	< 4 Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	$\leq$ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	NA	Not applicable
	NM	Not measured

LTE Band 2

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/24.232	A.1	P
2	Field Strength of Spurious Radiation	2.1053/24.238	A.2	P
3	Frequency Stability	2.1055/24.235	A.3	P
4	Occupied Bandwidth	2.1049/24.238	A.4	P
5	Emission Bandwidth	2.1049/24.238	A.5	P
6	Band Edge Compliance	2.1051/24.238	A.6	P
7	Conducted Spurious Emission	2.1051/24.238	A.7	P
8	Peak-to-Average Power Ratio	24.232/ KDB971168 D01	A.8	P

LTE Band 4

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(d)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(h)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(h)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(h)	A.7	P
8	Peak-to-Average Power Ratio	27.50(d)/ KDB971168 D01	A.8	P

LTE band 5

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/22.913	A.1	P
2	Field Strength of Spurious Radiation	2.1053/22.917	A.2	P
3	Frequency Stability	2.1055/22.355	A.3	P
4	Occupied Bandwidth	2.1049/22.917	A.4	P
5	Emission Bandwidth	2.1049/22.917	A.5	P
6	Band Edge Compliance	2.1051/22.917	A.6	P
7	Conducted Spurious Emission	2.1051/22.917	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE Band 7(CA_7C)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 12

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(c)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(g)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(g)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(g)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

**LTE Band 13**

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(b)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(c)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(c)	A.4	P
5	Emission Bandwidth	2.1049/27.53(c)	A.5	P
6	Band Edge Compliance	2.1051/27.53(c)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(c)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 17

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(c)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(g)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(g)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(g)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 26(814MHz-824MHz)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/90.635	A.1	P
2	Field Strength of Spurious Radiation	2.1053/90.691	A.2	P
3	Frequency Stability	2.1055/90.213	A.3	P
4	Occupied Bandwidth	2.1049/90.1215	A.4	P
5	Emission Bandwidth	2.1049/90.1215	A.5	P
6	Band Edge Compliance	2.1051/90.691	A.6	P
7	Conducted Spurious Emission	2.1051/90.691	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE band 26(824MHz-849MHz)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/22.913	A.1	P
2	Field Strength of Spurious Radiation	2.1053/22.917	A.2	P
3	Frequency Stability	2.1055/22.355	A.3	P
4	Occupied Bandwidth	2.1049/22.917	A.4	P
5	Emission Bandwidth	2.1049/22.917	A.5	P
6	Band Edge Compliance	2.1051/22.917	A.6	P
7	Conducted Spurious Emission	2.1051/22.917	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

LTE Band 38(CA_38C)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

LTE Band 41(CA_41C)

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(h)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(m)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(m)	A.4	P
5	Emission Bandwidth	2.1049/27.53(m)	A.5	P
6	Band Edge Compliance	2.1051/27.53(m)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(m)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P

**LTE Band 66**

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(d)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(h)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(h)	A.4	P
5	Emission Bandwidth	2.1049/27.53(h)	A.5	P
6	Band Edge Compliance	2.1051/27.53(h)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(h)	A.7	P
8	Peak-to-Average Power Ratio	27.50(a)/ KDB971168 D01	A.8	P



No.I22N01710-RF-LTE

7. STATEMENT

Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

8. TEST EQUIPMENTS UTILIZED

NO.	Description	TYPE	Manufacture	series number	CAL DUE DATE
1	Test Receiver	ESR7	R&S	101676	2022-11-24
2	BiLog Antenna	3142E	ETS-Lindgren	0224831	2024-05-27
3	Horn Antenna	3117	ETS-Lindgren	00066577	2025-04-17
4	Horn Antenna	QSH-SL-18-26-S-20	Q-par	17013	2023-01-06
5	Antenna	BBHA 9120D	Schwarzbeck	1593	2022-12-05
6	Antenna	VUBA 9117	Schwarzbeck	207	2023-07-15
7	Antenna	QWH-SL-18-40-K-SG	Q-par	15979	2023-01-06
8	preamplifier	83017A	Agilent	MY39501110	/
9	Signal Generator	SMB100A	R&S	179725	2022-11-24
10	Fully Anechoic Chamber	FACT3-2.0	ETS-Lindgren	1285	2023-05-29
11	Spectrum Analyzer	FSV40	R&S	101192	2023-01-12
12	Universal Radio Communication Tester	CMU200	R&S	114545	2023-01-12
13	Universal Radio Communication Tester	CMW500	R&S	152499	2023-07-14
14	Universal Radio Communication Tester	E7515B	Keysight	MY59322022	2023-04-14
15	Universal Radio Communication Tester	MT8821C	Anritsu	6262025268	2023-03-29
16	Universal Radio Communication Tester	MT8000A	Anritsu	6261987936	2023-03-29
17	Universal Radio Communication Tester	CMW500	R&S	129146	2023-04-24
18	Spectrum Analyzer	FSU	R&S	101506	2022-12-13
19	Temperature Chamber	SH-241	ESPEC	92007516	2023-10-15
20	DC Power Supply	U3606A	Agilent Technologies	MY50450012	2022-11-13
21	Spectrum Analyzer	FSW26	R&S	102197	2022-11-24

Test software

Item	Name	Vesion
Radiated	EMC32	V10.50.40

ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

Reference

FCC: CFR Part 2.1046, 22.913, 24.232, 27.50,90.635.

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation.

This result contains peak output power and ERP/EIRP measurements for the EUT.

In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

A.1.2.2 Measurement result

LTE band 2

Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	22.58	21.80	20.65
		1880 (18900)	22.57	21.80	20.65
		1850.7 (18607)	22.53	21.73	20.66
	1RB-Middle (3)	1909.3 (19193)	22.59	21.81	20.65
		1880 (18900)	22.59	21.79	20.65
		1850.7 (18607)	22.50	21.75	20.85
	1RB-Low (0)	1909.3 (19193)	22.62	21.58	20.70
		1880 (18900)	22.57	21.57	20.69
		1850.7 (18607)	22.50	21.52	20.74
	3RB-High (3)	1909.3 (19193)	21.56	20.61	19.70
		1880 (18900)	21.58	20.53	19.62
		1850.7 (18607)	21.48	20.73	19.58
	3RB-Middle (1)	1909.3 (19193)	22.60	21.74	20.58
		1880 (18900)	22.56	21.78	20.60
		1850.7 (18607)	22.51	21.73	20.65
	3RB-Low (0)	1909.3 (19193)	22.65	21.85	20.62
		1880 (18900)	22.60	21.78	20.59
		1850.7 (18607)	22.50	21.73	20.81
	6RB (0)	1909.3 (19193)	21.61	20.65	19.76
		1880 (18900)	21.48	20.59	19.69
		1850.7 (18607)	21.51	20.54	19.72
3MHz	1RB-High (14)	1908.5 (19185)	21.58	20.58	19.71
		1880 (18900)	21.49	20.52	19.66



Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
	1RB-Middle (7)	1851.5 (18615)	21.45	20.68	19.61
		1908.5 (19185)	22.55	21.73	20.62
		1880 (18900)	22.56	21.66	20.59
		1851.5 (18615)	22.52	21.72	20.59
	1RB-Low (0)	1908.5 (19185)	22.63	21.83	20.68
		1880 (18900)	22.57	21.66	20.62
		1851.5 (18615)	22.50	21.62	20.82
	8RB-High (7)	1908.5 (19185)	21.62	20.55	19.79
		1880 (18900)	21.50	20.45	19.70
		1851.5 (18615)	21.46	20.44	19.64
	8RB-Middle (4)	1908.5 (19185)	21.58	20.57	19.72
		1880 (18900)	21.55	20.51	19.72
		1851.5 (18615)	21.49	20.47	19.62
	8RB-Low (0)	1908.5 (19185)	22.53	21.61	20.70
		1880 (18900)	22.53	21.57	20.65
		1851.5 (18615)	22.46	21.65	20.55
	15RB (0)	1908.5 (19185)	22.56	21.64	20.65
		1880 (18900)	22.57	21.60	20.56
		1851.5 (18615)	22.45	21.66	20.66
5MHz	1RB-High (24)	1907.5 (19175)	21.56	20.62	19.80
		1880 (18900)	21.49	20.48	19.68
		1852.5 (18625)	21.52	20.49	19.68
	1RB-Middle (12)	1907.5 (19175)	21.59	20.59	19.73
		1880 (18900)	21.53	20.47	19.66
		1852.5 (18625)	21.53	20.49	19.69
	1RB-Low (0)	1907.5 (19175)	22.53	21.72	20.60
		1880 (18900)	22.49	21.72	20.63
		1852.5 (18625)	22.50	21.70	20.62
	12RB-High (13)	1907.5 (19175)	22.51	21.73	20.73
		1880 (18900)	22.52	21.71	20.62
		1852.5 (18625)	22.46	21.68	20.82
	12RB-Middle (6)	1907.5 (19175)	21.56	20.54	19.71
		1880 (18900)	21.48	20.49	19.70
		1852.5 (18625)	21.46	20.46	19.62
	12RB-Low (0)	1907.5 (19175)	21.50	20.52	19.67
		1880 (18900)	21.43	20.43	19.62
		1852.5 (18625)	21.50	20.44	19.65
	25RB (0)	1907.5 (19175)	22.52	21.73	20.52
		1880 (18900)	22.38	21.64	20.53
		1852.5 (18625)	22.43	21.63	20.49

Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
10MHz	1RB-High (49)	1905 (19150)	22.41	21.75	20.60
		1880 (18900)	22.49	21.71	20.61
		1855 (18650)	22.43	21.73	20.51
	1RB-Middle (24)	1905 (19150)	21.56	20.58	19.71
		1880 (18900)	21.51	20.50	19.67
		1855 (18650)	21.53	20.50	19.67
	1RB-Low (0)	1905 (19150)	21.56	20.52	19.71
		1880 (18900)	21.45	20.41	19.61
		1855 (18650)	21.48	20.45	19.65
	25RB-High (25)	1905 (19150)	22.58	21.80	20.65
		1880 (18900)	22.57	21.80	20.65
		1855 (18650)	22.53	21.73	20.66
	25RB-Middle (12)	1905 (19150)	22.59	21.81	20.65
		1880 (18900)	22.59	21.79	20.65
		1855 (18650)	22.50	21.75	20.85
	25RB-Low (0)	1905 (19150)	22.62	21.58	20.70
		1880 (18900)	22.57	21.57	20.69
		1855 (18650)	22.50	21.52	20.74
	50RB (0)	1905 (19150)	21.56	20.61	19.70
		1880 (18900)	21.58	20.53	19.62
		1855 (18650)	21.48	20.73	19.58
15MHz	1RB-High (74)	1902.5 (19125)	22.60	21.74	20.58
		1880 (18900)	22.56	21.78	20.60
		1857.5 (18675)	22.51	21.73	20.65
	1RB-Middle (37)	1902.5 (19125)	22.65	21.85	20.62
		1880 (18900)	22.60	21.78	20.59
		1857.5 (18675)	22.50	21.73	20.81
	1RB-Low (0)	1902.5 (19125)	21.61	20.65	19.76
		1880 (18900)	21.48	20.59	19.69
		1857.5 (18675)	21.51	20.54	19.72
	36RB-High (38)	1902.5 (19125)	21.58	20.58	19.71
		1880 (18900)	21.49	20.52	19.66
		1857.5 (18675)	21.45	20.68	19.61
	36RB-Middle (19)	1902.5 (19125)	22.55	21.73	20.62
		1880 (18900)	22.56	21.66	20.59
		1857.5 (18675)	22.52	21.72	20.59
	36RB-Low (0)	1902.5 (19125)	22.63	21.83	20.68
		1880 (18900)	22.57	21.66	20.62
		1857.5 (18675)	22.50	21.62	20.82
	75RB (0)	1902.5 (19125)	21.62	20.55	19.79



Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
20MHz		1880 (18900)	21.50	20.45	19.70
		1857.5 (18675)	21.46	20.44	19.64
		1900 (19100)	21.58	20.57	19.72
	1RB-High (99)	1880 (18900)	21.55	20.51	19.72
		1860 (18700)	21.49	20.47	19.62
		1900 (19100)	22.53	21.61	20.70
	1RB-Middle (50)	1880 (18900)	22.53	21.57	20.65
		1860 (18700)	22.46	21.65	20.55
		1900 (19100)	22.56	21.64	20.65
	1RB-Low (0)	1880 (18900)	22.57	21.60	20.56
		1860 (18700)	22.45	21.66	20.66
		1900 (19100)	21.56	20.62	19.80
	50RB-High (50)	1880 (18900)	21.49	20.48	19.68
		1860 (18700)	21.52	20.49	19.68
		1900 (19100)	21.59	20.59	19.73
	50RB-Middle (25)	1880 (18900)	21.53	20.47	19.66
		1860 (18700)	21.53	20.49	19.69
		1900 (19100)	22.53	21.72	20.60
	50RB-Low (0)	1880 (18900)	22.49	21.72	20.63
		1860 (18700)	22.50	21.70	20.62
		1900 (19100)	22.51	21.73	20.73
	100RB (0)	1880 (18900)	22.52	21.71	20.62
		1860 (18700)	22.46	21.68	20.82

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1754.3 (20393)	23.16	22.52	21.34
		1732.5 (20175)	23.24	22.42	21.39
		1710.7 (19957)	23.24	22.40	21.33
	1RB-Middle (3)	1754.3 (20393)	23.21	22.44	21.33
		1732.5 (20175)	23.24	22.45	21.41
		1710.7 (19957)	23.22	22.40	21.34
	1RB-Low (0)	1754.3 (20393)	23.22	22.22	21.36
		1732.5 (20175)	23.26	22.30	21.33
		1710.7 (19957)	23.25	22.27	21.27
	3RB-High (3)	1754.3 (20393)	22.19	21.24	20.26
		1732.5 (20175)	22.23	21.29	20.15
		1710.7 (19957)	22.24	21.24	20.10
	3RB-Middle (1)	1754.3 (20393)	23.15	22.36	21.22
		1732.5 (20175)	23.19	22.43	21.37
		1710.7 (19957)	23.20	22.50	21.32
	3RB-Low (0)	1754.3 (20393)	23.13	22.39	21.25
		1732.5 (20175)	23.18	22.45	21.25
		1710.7 (19957)	23.18	22.47	21.28
	6RB (0)	1754.3 (20393)	22.15	21.20	20.32
		1732.5 (20175)	22.16	21.25	20.38
		1710.7 (19957)	22.22	21.23	20.24
3MHz	1RB-High (14)	1753.5 (20385)	22.12	21.14	20.28
		1732.5 (20175)	22.20	21.18	20.34
		1711.5 (19965)	22.22	21.25	20.24
	1RB-Middle (7)	1753.5 (20385)	23.16	22.45	21.30
		1732.5 (20175)	23.16	22.33	21.27
		1711.5 (19965)	23.23	22.33	21.36
	1RB-Low (0)	1753.5 (20385)	23.17	22.50	21.30
		1732.5 (20175)	23.21	22.41	21.34
		1711.5 (19965)	23.25	22.31	21.35
	8RB-High (7)	1753.5 (20385)	22.14	21.15	20.32
		1732.5 (20175)	22.23	21.20	20.20
		1711.5 (19965)	22.22	21.23	20.19
	8RB-Middle (4)	1753.5 (20385)	22.17	21.15	20.33
		1732.5 (20175)	22.16	21.17	20.31
		1711.5 (19965)	22.21	21.17	20.16
	8RB-Low (0)	1753.5 (20385)	23.17	22.40	21.29
		1732.5 (20175)	23.19	22.29	21.32
		1711.5 (19965)	23.17	22.31	21.25



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
	15RB (0)	1753.5 (20385)	23.22	22.43	21.29
		1732.5 (20175)	23.26	22.40	21.32
		1711.5 (19965)	23.23	22.33	21.27
5MHz	1RB-High (24)	1752.5 (20375)	22.18	21.19	20.33
		1732.5 (20175)	22.23	21.21	20.44
		1712.5 (19975)	22.25	21.23	20.17
	1RB-Middle (12)	1752.5 (20375)	22.21	21.21	20.29
		1732.5 (20175)	22.22	21.19	20.38
		1712.5 (19975)	22.28	21.26	20.24
	1RB-Low (0)	1752.5 (20375)	23.14	22.38	21.31
		1732.5 (20175)	23.22	22.35	21.32
		1712.5 (19975)	23.16	22.42	21.34
	12RB-High (13)	1752.5 (20375)	23.33	22.54	21.47
		1732.5 (20175)	23.24	22.46	21.35
		1712.5 (19975)	23.22	22.43	21.34
	12RB-Middle (6)	1752.5 (20375)	22.14	21.17	20.35
		1732.5 (20175)	22.17	21.18	20.36
		1712.5 (19975)	22.26	21.25	20.18
	12RB-Low (0)	1752.5 (20375)	22.20	21.16	20.33
		1732.5 (20175)	22.22	21.22	20.34
		1712.5 (19975)	22.25	21.24	20.24
	25RB (0)	1752.5 (20375)	23.08	22.21	21.15
		1732.5 (20175)	23.16	22.24	21.15
		1712.5 (19975)	23.11	22.31	21.21
10MHz	1RB-High (49)	1750 (20350)	23.20	22.26	21.27
		1732.5 (20175)	23.16	22.38	21.14
		1715 (20000)	23.16	22.30	21.28
	1RB-Middle (24)	1750 (20350)	22.22	21.22	20.32
		1732.5 (20175)	22.24	21.20	20.35
		1715 (20000)	22.24	21.21	20.19
	1RB-Low (0)	1750 (20350)	22.20	21.15	20.36
		1732.5 (20175)	22.20	21.15	20.34
		1715 (20000)	22.25	21.22	20.23
	25RB-High (25)	1750 (20350)	23.16	22.52	21.34
		1732.5 (20175)	23.24	22.42	21.39
		1715 (20000)	23.24	22.40	21.33
	25RB-Middle (12)	1750 (20350)	23.21	22.44	21.33
		1732.5 (20175)	23.24	22.45	21.41
		1715 (20000)	23.22	22.40	21.34
	25RB-Low (0)	1750 (20350)	23.22	22.22	21.36



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		1732.5 (20175)	23.26	22.30	21.33
		1715 (20000)	23.25	22.27	21.27
	50RB (0)	1750 (20350)	22.19	21.24	20.26
		1732.5 (20175)	22.23	21.29	20.15
		1715 (20000)	22.24	21.24	20.10
15MHz	1RB-High (74)	1747.5 (20325)	23.15	22.36	21.22
		1732.5 (20175)	23.19	22.43	21.37
		1717.5 (20025)	23.20	22.50	21.32
	1RB-Middle (37)	1747.5 (20325)	23.13	22.39	21.25
		1732.5 (20175)	23.18	22.45	21.25
		1717.5 (20025)	23.18	22.47	21.28
	1RB-Low (0)	1747.5 (20325)	22.15	21.20	20.32
		1732.5 (20175)	22.16	21.25	20.38
		1717.5 (20025)	22.22	21.23	20.24
	36RB-High (38)	1747.5 (20325)	22.12	21.14	20.28
		1732.5 (20175)	22.20	21.18	20.34
		1717.5 (20025)	22.22	21.25	20.24
	36RB-Middle (19)	1747.5 (20325)	23.16	22.45	21.30
		1732.5 (20175)	23.16	22.33	21.27
		1717.5 (20025)	23.23	22.33	21.36
	36RB-Low (0)	1747.5 (20325)	23.17	22.50	21.30
		1732.5 (20175)	23.21	22.41	21.34
		1717.5 (20025)	23.25	22.31	21.35
	75RB (0)	1747.5 (20325)	22.14	21.15	20.32
		1732.5 (20175)	22.23	21.20	20.20
		1717.5 (20025)	22.22	21.23	20.19
20MHz	1RB-High (99)	1745 (20300)	22.17	21.15	20.33
		1732.5 (20175)	22.16	21.17	20.31
		1720 (20050)	22.21	21.17	20.16
	1RB-Middle (50)	1745 (20300)	23.17	22.40	21.29
		1732.5 (20175)	23.19	22.29	21.32
		1720 (20050)	23.17	22.31	21.25
	1RB-Low (0)	1745 (20300)	23.22	22.43	21.29
		1732.5 (20175)	23.26	22.40	21.32
		1720 (20050)	23.23	22.33	21.27
	50RB-High (50)	1745 (20300)	22.18	21.19	20.33
		1732.5 (20175)	22.23	21.21	20.44
		1720 (20050)	22.25	21.23	20.17
	50RB-Middle (25)	1745 (20300)	22.21	21.21	20.29
		1732.5 (20175)	22.22	21.19	20.38



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
	50RB-Low (0)	1720 (20050)	22.28	21.26	20.24
		1745 (20300)	23.14	22.38	21.31
		1732.5 (20175)	23.22	22.35	21.32
		1720 (20050)	23.16	22.42	21.34
	100RB (0)	1745 (20300)	23.33	22.54	21.47
		1732.5 (20175)	23.24	22.46	21.35
		1720 (20050)	23.22	22.43	21.34

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (20643)	23.72	23.03	21.77
		836.5 (20525)	23.77	22.99	21.87
		824.7 (20407)	23.85	23.04	21.94
	1RB-Middle (3)	848.3 (20643)	23.76	23.03	21.79
		836.5 (20525)	23.78	23.06	21.94
		824.7 (20407)	23.84	23.05	21.95
	1RB-Low (0)	848.3 (20643)	23.80	22.77	21.80
		836.5 (20525)	23.78	22.82	21.81
		824.7 (20407)	23.77	22.80	21.85
	3RB-High (3)	848.3 (20643)	22.75	21.83	20.62
		836.5 (20525)	22.74	21.82	20.89
		824.7 (20407)	22.81	21.87	20.96
	3RB-Middle (1)	848.3 (20643)	23.72	22.92	21.91
		836.5 (20525)	23.74	22.97	21.86
		824.7 (20407)	23.80	22.96	21.83
	3RB-Low (0)	848.3 (20643)	23.69	22.89	21.89
		836.5 (20525)	23.72	23.00	21.87
		824.7 (20407)	23.79	23.05	21.83
	6RB (0)	848.3 (20643)	22.74	21.75	20.70
		836.5 (20525)	22.76	21.84	20.90
		824.7 (20407)	22.80	21.84	20.98
3MHz	1RB-High (14)	847.5 (20635)	22.72	21.76	20.69
		836.5 (20525)	22.77	21.73	20.88
		825.5 (20415)	22.76	21.78	20.89
	1RB-Middle (7)	847.5 (20635)	23.85	23.04	21.85
		836.5 (20525)	23.86	23.09	21.93
		825.5 (20415)	23.95	23.07	22.06
	1RB-Low (0)	847.5 (20635)	23.78	23.02	21.81
		836.5 (20525)	23.85	23.12	21.92
		825.5 (20415)	23.95	23.04	22.01
	8RB-High (7)	847.5 (20635)	22.74	21.72	20.65
		836.5 (20525)	22.78	21.77	21.00
		825.5 (20415)	22.84	21.81	21.00
	8RB-Middle (4)	847.5 (20635)	22.75	21.71	20.69
		836.5 (20525)	22.79	21.78	20.91
		825.5 (20415)	22.83	21.84	20.99
	8RB-Low (0)	847.5 (20635)	23.80	22.95	23.02
		836.5 (20525)	23.84	23.00	21.79
		825.5 (20415)	23.87	23.07	21.78

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
	15RB (0)	847.5 (20635)	23.77	22.96	22.99
		836.5 (20525)	23.81	23.02	21.85
		825.5 (20415)	23.84	23.00	21.78
5MHz	1RB-High (24)	846.5 (20625)	22.77	21.76	21.76
		836.5 (20525)	22.81	21.77	20.97
		826.5 (20425)	22.84	21.79	20.94
	1RB-Middle (12)	846.5 (20625)	22.82	21.79	21.76
		836.5 (20525)	22.83	21.76	20.91
		826.5 (20425)	22.90	21.85	21.03
	1RB-Low (0)	846.5 (20625)	23.72	23.03	21.77
		836.5 (20525)	23.77	22.99	21.87
		826.5 (20425)	23.85	23.04	21.94
	12RB-High (13)	846.5 (20625)	23.76	23.03	21.79
		836.5 (20525)	23.78	23.06	21.94
		826.5 (20425)	23.84	23.05	21.95
	12RB-Middle (6)	846.5 (20625)	23.80	22.77	21.80
		836.5 (20525)	23.78	22.82	21.81
		826.5 (20425)	23.77	22.80	21.85
	12RB-Low (0)	846.5 (20625)	22.75	21.83	20.62
		836.5 (20525)	22.74	21.82	20.89
		826.5 (20425)	22.81	21.87	20.96
	25RB (0)	846.5 (20625)	23.72	22.92	21.91
		836.5 (20525)	23.74	22.97	21.86
		826.5 (20425)	23.80	22.96	21.83
10MHz	1RB-High (49)	844 (20600)	23.69	22.89	21.89
		836.5 (20525)	23.72	23.00	21.87
		829 (20450)	23.79	23.05	21.83
	1RB-Middle (24)	844 (20600)	22.74	21.75	20.70
		836.5 (20525)	22.76	21.84	20.90
		829 (20450)	22.80	21.84	20.98
	1RB-Low (0)	844 (20600)	22.72	21.76	20.69
		836.5 (20525)	22.77	21.73	20.88
		829 (20450)	22.76	21.78	20.89
	25RB-High (25)	844 (20600)	23.85	23.04	21.85
		836.5 (20525)	23.86	23.09	21.93
		829 (20450)	23.95	23.07	22.06
	25RB-Middle (12)	844 (20600)	23.78	23.02	21.81
		836.5 (20525)	23.85	23.12	21.92
		829 (20450)	23.95	23.04	22.01
	25RB-Low (0)	844 (20600)	22.74	21.72	20.65



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		836.5 (20525)	22.78	21.77	21.00
		829 (20450)	22.84	21.81	21.00
		844 (20600)	22.75	21.71	20.69
	50RB (0)	836.5 (20525)	22.79	21.78	20.91
		829 (20450)	22.83	21.84	20.99

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE band 7

Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2567.5 (21425)	23.01	22.17	21.13
		2535 (21100)	22.91	22.13	21.15
		2502.5 (20775)	22.61	21.96	20.94
	1RB-Middle (12)	2567.5 (21425)	22.93	22.05	21.16
		2535 (21100)	22.84	22.07	21.05
		2502.5 (20775)	22.59	22.00	20.88
	1RB-Low (0)	2567.5 (21425)	21.98	20.98	19.97
		2535 (21100)	21.89	20.87	19.87
		2502.5 (20775)	21.77	20.76	19.72
	12RB-High (13)	2567.5 (21425)	21.97	20.99	19.93
		2535 (21100)	21.89	20.83	19.83
		2502.5 (20775)	21.78	20.77	19.77
	12RB-Middle (6)	2567.5 (21425)	23.10	22.27	21.16
		2535 (21100)	23.01	22.15	20.97
		2502.5 (20775)	22.81	22.17	20.99
	12RB-Low (0)	2567.5 (21425)	23.03	22.20	20.98
		2535 (21100)	22.87	22.11	20.88
		2502.5 (20775)	22.65	22.03	20.88
	25RB (0)	2567.5 (21425)	21.97	20.97	19.97
		2535 (21100)	21.83	20.88	19.82
		2502.5 (20775)	21.78	20.76	19.79
10MHz	1RB-High (49)	2565 (21400)	21.97	20.97	19.94
		2535 (21100)	21.88	20.87	19.85
		2505 (20800)	21.83	20.76	19.78
	1RB-Middle (24)	2565 (21400)	22.98	22.35	21.13
		2535 (21100)	22.90	22.27	21.10
		2505 (20800)	22.67	22.18	20.97
	1RB-Low (0)	2565 (21400)	22.84	22.09	20.99
		2535 (21100)	22.58	22.05	20.92
		2505 (20800)	22.52	21.95	20.86
	25RB-High (25)	2565 (21400)	21.90	20.94	19.95
		2535 (21100)	21.80	20.85	19.83
		2505 (20800)	21.75	20.81	19.78
	25RB-Middle (12)	2565 (21400)	21.98	20.94	19.88
		2535 (21100)	21.88	20.84	19.82
		2505 (20800)	21.78	20.79	19.71
	25RB-Low (0)	2565 (21400)	23.02	22.08	21.02
		2535 (21100)	22.94	22.09	20.98
		2505 (20800)	22.71	22.03	20.97



Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
	50RB (0)	2565 (21400)	22.73	21.90	20.80
		2535 (21100)	22.65	21.88	20.75
		2505 (20800)	22.55	21.86	20.79
15MHz	1RB-High (74)	2562.5 (21375)	21.93	20.96	19.91
		2535 (21100)	21.90	20.82	19.84
		2507.5 (20825)	21.81	20.78	19.78
	1RB-Middle (37)	2562.5 (21375)	21.92	20.88	19.87
		2535 (21100)	21.83	20.82	19.78
		2507.5 (20825)	21.77	20.80	19.73
	1RB-Low (0)	2562.5 (21375)	23.01	22.17	21.13
		2535 (21100)	22.91	22.13	21.15
		2507.5 (20825)	22.61	21.96	20.94
	36RB-High (38)	2562.5 (21375)	22.93	22.05	21.16
		2535 (21100)	22.84	22.07	21.05
		2507.5 (20825)	22.59	22.00	20.88
	36RB-Middle (19)	2562.5 (21375)	21.98	20.98	19.97
		2535 (21100)	21.89	20.87	19.87
		2507.5 (20825)	21.77	20.76	19.72
	36RB-Low (0)	2562.5 (21375)	21.97	20.99	19.93
		2535 (21100)	21.89	20.83	19.83
		2507.5 (20825)	21.78	20.77	19.77
	75RB (0)	2562.5 (21375)	23.10	22.27	21.16
		2535 (21100)	23.01	22.15	20.97
		2507.5 (20825)	22.81	22.17	20.99
20MHz	1RB-High (99)	2560 (21350)	23.03	22.20	20.98
		2535 (21100)	22.87	22.11	20.88
		2510 (20850)	22.65	22.03	20.88
	1RB-Middle (50)	2560 (21350)	21.97	20.97	19.97
		2535 (21100)	21.83	20.88	19.82
		2510 (20850)	21.78	20.76	19.79
	1RB-Low (0)	2560 (21350)	21.97	20.97	19.94
		2535 (21100)	21.88	20.87	19.85
		2510 (20850)	21.83	20.76	19.78
	50RB-High (50)	2560 (21350)	22.98	22.35	21.13
		2535 (21100)	22.90	22.27	21.10
		2510 (20850)	22.67	22.18	20.97
	50RB-Middle (25)	2560 (21350)	22.84	22.09	20.99
		2535 (21100)	22.58	22.05	20.92
		2510 (20850)	22.52	21.95	20.86
	50RB-Low (0)	2560 (21350)	21.90	20.94	19.95



Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		2535 (21100)	21.80	20.85	19.83
		2510 (20850)	21.75	20.81	19.78
	100RB (0)	2560 (21350)	21.98	20.94	19.88
		2535 (21100)	21.88	20.84	19.82
		2510 (20850)	21.78	20.79	19.71

Note: Expanded measurement uncertainty is U = 0.49 dB, k = 1.96



LTE band 12

Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	715.3	23.80	23.05	22.12
		707.5	23.87	23.12	22.13
		699.7	23.86	23.14	22.14
	1RB-Middle (3)	715.3	23.78	23.01	22.04
		707.5	23.89	23.14	22.12
		699.7	23.78	22.98	22.11
	1RB-Low (0)	715.3	23.79	22.75	22.11
		707.5	23.80	22.76	22.14
		699.7	23.72	22.76	22.02
	3RB-High (3)	715.3	22.77	21.97	20.92
		707.5	22.79	21.99	20.88
		699.7	22.78	22.01	20.89
	3RB-Middle (1)	715.3	23.77	22.94	21.97
		707.5	23.73	23.03	22.00
		699.7	23.82	23.02	22.10
	3RB-Low (0)	715.3	23.67	22.94	21.93
		707.5	23.80	23.12	22.06
		699.7	23.69	23.00	22.05
	6RB (0)	715.3	22.72	21.96	20.88
		707.5	22.79	22.01	21.01
		699.7	22.75	21.98	20.99
3MHz	1RB-High (14)	714.5	22.69	21.93	20.84
		707.5	22.70	21.94	20.84
		700.5	22.76	21.97	20.87
	1RB-Middle (7)	714.5	23.94	23.02	22.16
		707.5	23.82	23.02	22.16
		700.5	23.86	22.97	22.11
	1RB-Low (0)	714.5	23.77	22.92	22.05
		707.5	23.78	22.99	22.13
		700.5	23.80	22.88	22.03
	8RB-High (7)	714.5	22.70	21.90	20.92
		707.5	22.81	21.94	21.00
		700.5	22.83	21.95	20.97
	8RB-Middle (4)	714.5	22.77	21.97	20.89
		707.5	22.76	21.96	20.87
		700.5	22.82	22.00	20.94
	8RB-Low (0)	714.5	23.97	23.09	22.10
		707.5	23.94	23.03	21.94
		700.5	23.96	23.09	22.07



Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
	15RB (0)	714.5	23.92	23.05	22.07
		707.5	23.78	23.05	21.99
		700.5	23.91	22.99	21.96
5MHz	1RB-High (24)	713.5	22.81	21.98	20.97
		707.5	22.79	21.97	20.96
		701.5	22.82	21.97	20.96
	1RB-Middle (12)	713.5	22.79	22.03	20.97
		707.5	22.76	21.94	20.93
		701.5	22.86	22.03	21.01
	1RB-Low (0)	713.5	23.80	23.05	22.12
		707.5	23.87	23.12	22.13
		701.5	23.86	23.14	22.14
	12RB-High (13)	713.5	23.78	23.01	22.04
		707.5	23.89	23.14	22.12
		701.5	23.78	22.98	22.11
	12RB-Middle (6)	713.5	23.79	22.75	22.11
		707.5	23.80	22.76	22.14
		701.5	23.72	22.76	22.02
	12RB-Low (0)	713.5	22.77	21.97	20.92
		707.5	22.79	21.99	20.88
		701.5	22.78	22.01	20.89
	25RB (0)	713.5	23.77	22.94	21.97
		707.5	23.73	23.03	22.00
		701.5	23.82	23.02	22.10
10MHz	1RB-High (49)	711	23.67	22.94	21.93
		707.5	23.80	23.12	22.06
		704	23.69	23.00	22.05
	1RB-Middle (24)	711	22.72	21.96	20.88
		707.5	22.79	22.01	21.01
		704	22.75	21.98	20.99
	1RB-Low (0)	711	22.69	21.93	20.84
		707.5	22.70	21.94	20.84
		704	22.76	21.97	20.87
	25RB-High (25)	711	23.94	23.02	22.16
		707.5	23.82	23.02	22.16
		704	23.86	22.97	22.11
	25RB-Middle (12)	711	23.77	22.92	22.05
		707.5	23.78	22.99	22.13
		704	23.80	22.88	22.03
	25RB-Low (0)	711	22.70	21.90	20.92



Bandwidth	Number of RBs	Frequency(MHz)	Power(dBm)		
			QPSK	16QAM	64QAM
		707.5	22.81	21.94	21.00
		704	22.83	21.95	20.97
		711	22.77	21.97	20.89
	50RB (0)	707.5	22.76	21.96	20.87
		704	22.82	22.00	20.94

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96