TEST REPORT

No.23T04Z80846-08

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T613P

FCC ID: 2ACCJH182

with

Hardware Version: 05

Software Version: 6FSE

Issued Date: 2024-02-07

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 CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
23T04Z80846-08	Rev.0	1st edition	2024-02-07

Note: the latest revision of the test report supersedes all previous version.

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CONTENTS

1. TEST LABORATORY 4
1.1. INTRODUCTION & ACCREDITATION 4
1.2. TESTING LOCATION 4
1.3. TESTING ENVIRONMENT 4
1.4. PROJECT DATA 4
1.5. 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
4. REFERENCE DOCUMENTS 7
4.1. DOCUMENTS SUPPLIED BY APPLICANT 7
4.2. REFERENCE DOCUMENTS FOR TESTING 7
5. SUMMARY OF TEST RESULT 8
6. TEST EQUIPMENT UTILIZED 12
ANNEX A: MEASUREMENT RESULTS 13
A.1 OUTPUT POWER 13
A.2 EMISSION LIMIT 53
A.3 FREQUENCY STABILITY 70
A.4 OCCUPIED BANDWIDTH 77
A.5 EMISSION BANDWIDTH 134
A.6 BAND EDGE COMPLIANCE 191
A.7 CONDUCTED SPURIOUS EMISSION 302
A.8 PEAK-TO-AVERAGE POWER RATIO 311
ANNEX B: ACCREDITATION CERTIFICATE 313

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

Location 2: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35℃

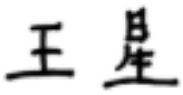
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2023-12-20

Testing End Date: 2024-02-06

1.5. Signature



Wang Xing

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(Reviewed this test report)

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(Approved this test report)

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2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
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Contact:	Annie Jiang
Email:	nianxiang.jiang@tcl.com
Telephone:	+86 755 3661 1621
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T613P
FCC ID	2ACCJH182
Antenna	Embedded
Output power	23.69 dBm maximum EIRP measured for LTE B66
Extreme Voltage	3.6VDC to 4.45VDC (nominal: 3.87VDC)
Extreme Temperature	-10°C to +55°C

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

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT01a	356497200000733/ 356497200000766	05	6FSE	2023-12-13
UT14a	356497200002101/ 356497200002150	05	6FSE	2024-01-05

UT14a was used for emission limit test and UT01a was used for other testing cases.

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery

AE1

Model	TLp049C9
Manufacturer	Guangdong Fenghua New Energy Co., Ltd.
Capacitance	4900mAh

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

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4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-22 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-22 Edition
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-22 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR CITIZENS BROADBAND RADIO SERVICE DEVICES AUTHORIZED UNDER PART 96	v03

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5. Summary of Test Result

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 12 (17)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 13

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

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LTE Band 25 (2)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232	P
2	Emission Limit	2.1051/24.238	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	24.238	P
6	Band Edge Compliance	24.238	P
7	Conducted Spurious Emission	24.238	P
8	Peak-to-Average Power Ratio	24.232	P

LTE Band 26(814MHz~824MHz)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.635	P
2	Emission Limit	2.1051/90.691	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	2.1049	P
6	Band Edge Compliance	90.691	P
7	Conducted Spurious Emission	90.691	P

LTE Band 26(824MHz~849MHz) (5)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	22.913	P
2	Emission Limit	2.1051/22.917	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	22.917	P
6	Band Edge Compliance	22.917	P
7	Conducted Spurious Emission	22.917	P

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LTE Band 41 (38)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 48

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	96.41	P
2	Emission Limit	NA	NA
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	96.41	P
6	Band Edge Compliance	96.41	P
7	Conducted Spurious Emission	96.41	P
8	Peak-to-Average Power Ratio	96.41	P
9	End User Device Additional Requirements (CBSD Protocol)	96.47	P

LTE Band 66 (4)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

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Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable.The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

All the test results are based on normal power.

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

LTE Band 25, Band 66, Band 26, Band 12 and Band 41 overlaps the entire frequency range of LTE Band 2, Band 4, Band 5,Band 17 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 17, Band 38 as well as Band 25, Band 66, Band 26, Band 12, Band 41.

LTE Band 41 and Band 48 are tested by power class 3.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

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6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-01-10	1 year
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-12-28	1 year
Spectrum Analyzer	FSU	200030	R&S	2024-05-25	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2024-06-25	1 year
Climate chamber	SH-241	92004642	ESPEC	2024-10-15	1 year
Test Receiver	FSV30	101525	R&S	2024-02-11	1 year
EMI Antenna	VULB9163	9163-235	Schwarzbeck	2024-06-10	1 year
EMI Antenna	LB-7180-NF	J203001300005	Yinglian	2024-05-25	1 year
Substitution Antenna	9117	167	Schwarzbeck	2025-08-03	2 year
Signal Generator	N5183A	MY49060052	Agilent	2024-09-14	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2024-02-03	1 year

Note: the CMW500 (SN:143008) was in calibration due date when used for testing.

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Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

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.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.2.2 Measurement Result

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.49	22.96	21.77	18.85
		2535.0	23.83	22.88	21.77	18.89
		2502.5	23.68	23.08	21.86	18.81
	1 RB low	2567.5	23.74	22.96	21.68	18.89
		2535.0	23.86	23.24	21.98	18.89
		2502.5	23.64	23.02	21.76	18.87
	50% RB mid	2567.5	22.72	21.50	20.80	18.59
		2535.0	22.81	21.83	20.82	18.65
		2502.5	22.68	21.83	20.69	18.65
	100% RB	2567.5	22.72	21.69	20.56	18.38
		2535.0	22.83	21.62	20.81	18.44
		2502.5	22.68	21.76	20.79	18.70
10MHz	1 RB high	2565.0	23.65	22.72	21.87	18.73
		2535.0	23.71	23.02	21.91	19.23
		2505.0	23.79	23.05	21.92	19.45
	1 RB low	2565.0	23.64	22.99	21.59	18.87
		2535.0	23.73	23.20	22.05	19.13
		2505.0	23.66	22.66	21.78	19.25
	50% RB mid	2565.0	22.63	21.57	20.65	18.83
		2535.0	22.76	21.71	20.68	19.03
		2505.0	22.66	21.75	20.63	18.79
	100% RB	2565.0	22.56	21.73	20.83	18.76
		2535.0	22.76	21.66	20.93	18.38

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		2505.0	22.67	21.78	20.96	18.80
15MHz	1 RB high	2562.5	23.08	22.79	21.84	19.03
		2535.0	23.63	22.88	21.87	18.87
		2507.5	23.83	22.97	22.01	19.07
	1 RB low	2562.5	23.65	22.94	21.76	18.87
		2535.0	23.87	22.96	22.07	18.93
		2507.5	23.72	22.76	21.87	18.97
	50% RB mid	2562.5	22.61	21.66	20.63	18.99
		2535.0	22.82	21.80	20.84	18.57
		2507.5	22.72	21.72	20.71	18.89
	100% RB	2562.5	22.60	21.67	20.64	18.46
		2535.0	22.79	21.81	20.80	18.52
		2507.5	22.74	21.76	20.72	18.76
20MHz	1 RB high	2560.0	23.51	22.90	21.86	18.89
		2535.0	23.63	23.00	21.82	19.03
		2510.0	23.85	22.95	22.01	18.89
	1 RB low	2560.0	23.69	22.79	21.76	18.95
		2535.0	23.72	23.10	21.96	18.97
		2510.0	23.60	22.84	21.68	19.05
	50% RB mid	2560.0	22.60	21.63	20.62	18.75
		2535.0	22.79	21.83	20.81	18.93
		2510.0	22.75	21.78	20.74	18.71
	100% RB	2560.0	22.60	21.62	20.64	18.56
		2535.0	22.76	21.77	20.79	18.48
		2510.0	22.74	21.75	20.76	18.62

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LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.62	22.77	21.60	18.44
		707.5	23.59	22.90	21.76	18.54
		699.7	23.59	22.82	21.76	18.76
	1 RB low	715.3	23.61	22.71	21.65	18.38
		707.5	23.58	22.83	21.83	18.48
		699.7	23.61	22.76	21.72	18.70
	50% RB mid	715.3	23.49	22.53	21.58	18.90
		707.5	23.53	22.56	21.57	18.98
		699.7	23.56	22.58	21.62	19.20
	100% RB	715.3	22.52	21.67	20.50	18.89
		707.5	22.57	21.69	20.61	18.65
		699.7	22.56	21.68	20.55	18.67
3MHz	1 RB high	714.5	23.56	22.70	21.78	18.70
		707.5	23.48	22.80	21.72	18.62
		700.5	23.64	22.76	21.77	18.70
	1 RB low	714.5	23.58	22.85	21.67	18.56
		707.5	23.64	22.90	21.82	18.62
		700.5	23.56	22.75	21.68	18.66
	50% RB mid	714.5	22.54	21.63	20.54	18.96
		707.5	22.57	21.58	20.59	18.64
		700.5	22.61	21.67	20.58	18.76
	100% RB	714.5	22.55	21.61	20.57	18.89
		707.5	22.58	21.66	20.56	18.59
		700.5	22.63	21.63	20.60	18.81
5MHz	1 RB high	713.5	23.67	22.75	21.73	18.40
		707.5	23.68	22.84	21.74	18.66
		701.5	23.72	22.95	21.79	18.64
	1 RB low	713.5	23.69	22.97	21.74	18.34
		707.5	23.71	23.03	21.86	18.54
		701.5	23.67	22.94	21.82	18.60
	50% RB mid	713.5	22.69	21.69	20.66	18.76
		707.5	22.62	21.69	20.66	18.56
		701.5	22.70	21.71	20.69	19.00
	100% RB	713.5	22.69	21.63	20.63	18.69
		707.5	22.73	21.67	20.61	18.59
		701.5	22.74	21.69	20.66	18.49
10MHz	1 RB high	711.0	23.73	22.87	21.69	18.52
		707.5	23.67	22.92	21.81	18.40
		704.0	23.83	22.97	21.78	18.58
	1 RB low	711.0	23.79	23.15	21.94	18.42

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		707.5	23.88	23.08	21.91	18.52
		704.0	23.81	23.01	21.90	18.54
	50% RB mid	711.0	22.70	21.67	20.64	18.48
		707.5	22.74	21.72	20.67	18.48
		704.0	22.74	21.73	20.69	18.58
	100% RB	711.0	22.72	21.69	20.67	18.77
		707.5	22.77	21.73	20.70	18.65
		704.0	22.75	21.72	20.65	18.65

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LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.52	22.78	21.78	18.64
		782.0	23.68	22.90	21.77	18.82
		779.5	23.65	22.90	21.79	19.06
	1 RB low	784.5	23.62	22.97	21.78	18.70
		782.0	23.58	22.78	21.82	18.64
		779.5	23.69	22.83	21.76	18.88
	50% RB mid	784.5	22.67	21.68	20.69	18.71
		782.0	22.59	21.61	20.62	18.79
		779.5	22.56	21.51	20.55	18.97
	100% RB	784.5	22.68	21.65	20.62	18.54
		782.0	22.66	21.65	20.62	18.64
		779.5	22.63	21.63	20.58	18.72
10MHz	1 RB high	782.0	23.54	22.88	21.79	18.60
	1 RB low	782.0	23.65	22.80	21.79	18.76
	50% RB mid	782.0	22.63	21.60	20.62	18.61
	100% RB	782.0	22.60	21.61	20.60	18.56

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LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.70	22.72	21.78	19.41
		1882.5	23.71	22.71	21.77	19.29
		1850.7	23.55	22.63	21.63	19.57
	1 RB low	1914.3	23.56	22.81	21.80	19.31
		1882.5	23.62	22.81	21.73	19.07
		1850.7	23.53	22.53	21.68	19.45
	50% RB mid	1914.3	23.69	22.71	21.67	18.89
		1882.5	23.53	22.64	21.59	19.09
		1850.7	23.52	22.54	21.67	19.05
	100% RB	1914.3	22.65	21.73	20.68	19.03
		1882.5	22.61	21.73	20.65	19.15
		1850.7	22.54	21.60	20.57	19.15
3MHz	1 RB high	1913.5	23.69	22.72	21.84	19.47
		1882.5	23.63	22.79	21.82	19.07
		1851.5	23.48	22.65	21.62	19.43
	1 RB low	1913.5	23.71	22.71	21.74	19.43
		1882.5	23.68	22.73	21.81	19.19
		1851.5	23.70	22.64	21.71	19.37
	50% RB mid	1913.5	22.61	21.65	20.83	18.93
		1882.5	22.55	21.62	20.66	19.11
		1851.5	22.58	21.59	20.63	18.89
	100% RB	1913.5	22.63	21.74	20.80	18.89
		1882.5	22.56	21.61	20.65	18.99
		1851.5	22.50	21.61	20.58	19.11
5MHz	1 RB high	1912.5	23.76	22.88	21.81	19.29
		1882.5	23.60	22.96	21.76	18.95
		1852.5	23.58	22.70	21.67	19.33
	1 RB low	1912.5	23.66	22.85	21.84	19.39
		1882.5	23.68	22.77	21.88	19.01
		1852.5	23.42	22.79	21.71	19.21
	50% RB mid	1912.5	22.66	21.69	20.81	19.09
		1882.5	22.65	21.64	20.73	18.79
		1852.5	22.55	21.51	20.64	18.69
	100% RB	1912.5	22.73	21.70	20.80	18.69
		1882.5	22.65	21.64	20.73	18.69
		1852.5	22.58	21.63	20.64	18.87
10MHz	1 RB high	1910.0	23.74	22.70	21.76	19.09
		1882.5	23.66	22.84	21.76	19.35
		1855.0	23.55	22.71	21.70	19.69
	1 RB low	1910.0	23.69	22.96	21.80	19.11

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		1882.5	23.60	22.72	21.70	19.17
		1855.0	23.51	22.85	21.67	19.55
	50% RB mid	1910.0	22.67	21.63	20.73	19.03
		1882.5	22.61	21.59	20.66	18.79
		1855.0	22.58	21.53	20.59	18.75
	100% RB	1910.0	22.67	21.67	20.71	18.97
		1882.5	22.59	21.58	20.64	18.81
		1855.0	22.61	21.58	20.57	19.19
15MHz	1 RB high	1907.5	23.83	23.05	21.98	19.21
		1882.5	23.77	22.94	21.81	19.21
		1857.5	23.65	22.85	21.74	19.55
	1 RB low	1907.5	23.71	22.83	21.90	19.37
		1882.5	23.72	23.08	21.85	19.33
		1857.5	23.64	22.86	21.76	19.45
	50% RB mid	1907.5	22.74	21.70	20.78	18.77
		1882.5	22.69	21.65	20.70	19.11
		1857.5	22.62	21.57	20.64	18.97
	100% RB	1907.5	22.75	21.75	20.77	18.93
		1882.5	22.69	21.67	20.69	18.93
		1857.5	22.65	21.64	20.65	18.93
20MHz	1 RB high	1905.0	23.84	23.02	21.90	19.25
		1882.5	23.73	22.89	21.85	19.31
		1860.0	23.70	22.98	21.90	19.23
	1 RB low	1905.0	23.73	22.80	21.99	19.29
		1882.5	23.73	23.06	21.87	19.19
		1860.0	23.61	22.69	21.84	19.35
	50% RB mid	1905.0	22.72	21.73	20.75	18.77
		1882.5	22.68	21.69	20.73	18.89
		1860.0	22.67	21.64	20.68	18.77
	100% RB	1905.0	22.76	21.78	20.78	18.87
		1882.5	22.69	21.71	20.72	18.89
		1860.0	22.65	21.63	20.70	19.01

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LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.53	22.63	21.47	18.57
		819.0	23.43	22.65	21.54	18.38
		814.7	23.38	22.51	21.81	18.61
	1 RB low	823.3	23.50	22.58	21.38	18.58
		819.0	23.44	22.64	21.53	18.39
		814.7	23.37	22.47	21.71	18.62
	50% RB mid	823.3	23.60	22.71	21.77	18.59
		819.0	23.48	22.67	21.75	18.56
		814.7	23.53	22.63	21.40	18.53
	100% RB	823.3	22.55	21.80	20.56	18.58
		819.0	22.51	21.43	20.64	18.59
		814.7	22.48	21.73	20.47	18.56
3MHz	1 RB high	822.5	23.48	22.58	21.42	18.55
		819.0	23.43	22.52	21.33	18.55
		815.5	23.41	22.48	21.33	18.52
	1 RB low	822.5	23.44	22.59	21.39	18.55
		819.0	23.39	22.49	21.34	18.47
		815.5	23.43	22.52	21.24	18.51
	50% RB mid	822.5	22.53	21.60	20.61	18.59
		819.0	22.44	21.52	20.54	18.55
		815.5	22.43	21.51	20.40	18.49
	100% RB	822.5	22.56	21.54	20.62	18.58
		819.0	22.49	21.48	20.53	18.52
		815.5	22.46	21.44	20.49	18.51
5MHz	1 RB high	821.5	23.68	22.68	21.91	18.69
		819.0	23.67	22.66	21.78	18.69
		816.5	23.60	22.61	21.75	18.66
	1 RB low	821.5	23.60	22.61	21.96	18.65
		819.0	23.53	22.57	21.89	18.60
		816.5	23.62	22.62	21.87	18.62
	50% RB mid	821.5	22.60	21.66	20.78	18.71
		819.0	22.55	21.62	20.75	18.68
		816.5	22.52	21.58	20.61	18.62
	100% RB	821.5	22.62	21.59	20.70	18.67
		819.0	22.59	21.55	20.66	18.65
		816.5	22.59	21.54	20.62	18.61
10MHz	1 RB high	819.0	23.66	22.73	21.60	18.71
	1 RB low	819.0	23.66	22.73	21.57	18.73
	50% RB mid	819.0	23.64	22.72	21.52	18.71
	100% RB	819.0	23.50	22.58	21.61	18.63

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LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.75	22.98	21.64	18.95
		836.5	23.72	22.81	21.84	18.68
		824.7	23.52	22.61	21.94	18.69
	1 RB low	848.3	23.79	23.00	21.71	18.95
		836.5	23.73	22.80	21.83	18.63
		824.7	23.51	22.58	21.91	18.66
	50% RB mid	848.3	23.80	23.03	21.73	18.99
		836.5	23.77	22.97	21.90	18.83
		824.7	23.55	22.74	21.49	18.58
	100% RB	848.3	22.86	21.77	20.88	19.05
		836.5	22.80	21.71	20.86	18.84
		824.7	22.59	21.53	20.55	18.58
3MHz	1 RB high	847.5	23.72	22.87	21.67	18.93
		836.5	23.71	22.79	21.67	18.83
		825.5	23.52	22.59	21.48	18.62
	1 RB low	847.5	23.82	22.94	21.69	18.90
		836.5	23.69	22.78	21.50	18.75
		825.5	23.53	22.61	21.38	18.57
	50% RB mid	847.5	22.76	21.92	20.89	18.96
		836.5	22.75	21.86	20.86	18.86
		825.5	22.51	21.58	20.48	18.56
	100% RB	847.5	22.88	21.86	20.92	18.96
		836.5	22.80	21.78	20.88	18.86
		825.5	22.55	21.53	20.58	18.59
5MHz	1 RB high	846.5	23.92	22.91	22.26	19.06
		836.5	23.89	22.93	22.14	19.00
		826.5	23.71	22.74	21.92	18.78
	1 RB low	846.5	23.96	22.99	22.20	19.12
		836.5	23.78	22.87	22.16	18.89
		826.5	23.68	22.70	21.97	18.72
	50% RB mid	846.5	22.88	22.02	21.09	19.09
		836.5	22.85	21.90	21.02	18.94
		826.5	22.61	21.67	20.70	18.72
	100% RB	846.5	22.94	21.90	21.02	19.06
		836.5	22.86	21.83	20.90	18.92
		826.5	22.66	21.63	20.72	18.70
10MHz	1 RB high	844.0	23.88	23.02	21.70	19.10
		836.5	23.91	22.97	21.82	19.08
		829.0	23.81	22.87	21.74	18.93
	1 RB low	844.0	23.87	22.94	21.73	19.03

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		836.5	23.77	22.83	21.75	18.89
		829.0	23.59	22.68	21.66	18.67
	50% RB mid	844.0	22.98	22.05	21.05	19.10
		836.5	22.93	21.98	21.00	18.93
		829.0	22.78	21.78	20.85	18.78
	100% RB	844.0	22.97	21.98	20.99	19.00
		836.5	22.89	21.91	20.88	18.88
		829.0	22.73	21.77	20.74	18.73
15MHz	1 RB high	841.5	23.93	23.19	22.43	19.30
		836.5	23.96	23.33	22.39	19.33
		831.5	23.91	23.27	22.33	19.21
	1 RB low	841.5	23.85	23.21	22.33	19.15
		836.5	23.69	23.10	22.36	19.01
		831.5	23.60	22.99	22.31	18.94
	50% RB mid	841.5	23.03	21.97	21.01	19.03
		836.5	22.97	21.91	20.94	18.91
		831.5	22.92	21.79	20.92	18.80
	100% RB	841.5	22.97	22.00	21.03	19.04
		836.5	22.91	21.93	20.93	18.94
		831.5	22.81	21.84	20.81	18.82

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LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	24.13	23.15	21.78	18.80
		2593.0	23.59	22.70	21.23	19.02
		2498.5	23.09	22.14	21.00	18.72
	1 RB low	2687.5	24.11	23.12	21.74	18.64
		2593.0	23.55	22.60	21.16	18.70
		2498.5	23.01	22.04	21.00	18.84
	50% RB mid	2687.5	23.03	22.01	21.05	19.10
		2593.0	22.54	21.46	20.49	19.02
		2498.5	22.03	21.11	20.02	18.68
	100% RB	2687.5	23.04	22.06	21.07	18.55
		2593.0	22.53	21.53	20.54	18.93
		2498.5	22.06	21.03	20.05	19.25
10MHz	1 RB high	2685.0	24.35	23.21	21.77	18.78
		2593.0	23.71	22.71	21.24	18.86
		2501.0	23.26	22.26	21.02	18.98
	1 RB low	2685.0	24.32	23.18	21.76	18.66
		2593.0	23.58	22.60	21.12	18.70
		2501.0	23.13	22.14	21.00	18.76
	50% RB mid	2685.0	23.21	22.13	21.11	19.02
		2593.0	22.65	21.59	20.59	18.94
		2501.0	22.20	21.11	20.14	18.74
	100% RB	2685.0	23.21	22.15	21.09	18.65
		2593.0	22.61	21.59	20.52	19.05
		2501.0	22.17	21.16	20.10	19.35
15MHz	1 RB high	2682.5	24.32	23.36	21.97	18.58
		2593.0	23.87	22.93	21.50	18.84
		2503.5	23.56	22.62	21.19	18.78
	1 RB low	2682.5	24.30	23.30	21.92	18.70
		2593.0	23.69	22.73	21.33	18.68
		2503.5	23.29	22.32	21.09	18.66
	50% RB mid	2682.5	23.24	22.24	21.25	19.00
		2593.0	22.80	21.76	20.77	18.92
		2503.5	22.42	21.36	20.37	18.96
	100% RB	2682.5	23.23	22.30	21.28	18.67
		2593.0	22.76	21.78	20.77	18.87
		2503.5	22.41	21.43	20.42	19.37
20MHz	1 RB high	2680.0	24.35	23.36	21.94	18.70
		2593.0	23.91	22.97	21.54	18.88
		2506.0	23.70	22.73	21.29	18.80
	1 RB low	2680.0	24.22	23.23	21.82	18.58

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		2593.0	23.67	22.72	21.29	18.72
		2506.0	23.28	22.35	21.02	18.76
	50% RB mid	2680.0	23.26	22.31	21.29	18.94
		2593.0	22.81	21.83	20.79	18.94
		2506.0	22.51	21.50	20.48	18.78
	100% RB	2680.0	23.24	22.31	21.29	18.69
		2593.0	22.77	21.82	20.78	18.93
		2506.0	22.48	21.51	20.48	19.19

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LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.59	22.62	21.20	17.50
		3625.0	23.41	22.38	21.03	17.66
		3552.5	23.16	22.29	20.90	17.52
	1 RB low	3697.5	23.57	22.59	21.15	17.58
		3625.0	23.39	22.36	20.97	17.56
		3552.5	23.19	22.29	20.88	17.62
	50% RB mid	3697.5	22.49	21.43	20.49	17.92
		3625.0	22.25	21.22	20.29	18.20
		3552.5	22.21	21.17	20.25	18.18
	100% RB	3697.5	22.50	21.49	20.53	17.85
		3625.0	22.27	21.27	20.30	17.95
		3552.5	22.22	21.23	20.27	18.25
10MHz	1 RB high	3695.0	23.63	22.57	20.93	17.46
		3625.0	23.44	22.35	20.96	17.56
		3555.0	23.19	22.33	20.91	17.44
	1 RB low	3695.0	23.59	22.50	20.88	17.74
		3625.0	23.43	22.37	20.94	17.54
		3555.0	23.21	22.31	20.88	17.70
	50% RB mid	3695.0	22.44	21.44	20.46	17.90
		3625.0	22.25	21.23	20.28	18.04
		3555.0	22.20	21.22	20.24	18.04
	100% RB	3695.0	22.43	21.47	20.43	17.99
		3625.0	22.24	21.27	20.25	18.25
		3555.0	22.22	21.24	20.22	18.25
15MHz	1 RB high	3692.5	23.66	22.60	21.16	17.48
		3625.0	23.47	22.41	20.98	17.64
		3557.5	23.20	22.31	20.91	17.72
	1 RB low	3692.5	23.57	22.53	21.10	17.72
		3625.0	23.41	22.36	20.95	17.64
		3557.5	23.23	22.34	20.89	17.58
	50% RB mid	3692.5	22.41	21.39	20.43	17.98
		3625.0	22.23	21.17	20.23	18.24
		3557.5	22.22	21.17	20.18	18.34
	100% RB	3692.5	22.44	21.47	20.48	17.83
		3625.0	22.25	21.28	20.26	18.17
		3557.5	22.21	21.26	20.23	18.23
20MHz	1 RB high	3690.0	23.62	22.60	21.20	17.40
		3625.0	23.48	22.41	21.00	17.50

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		3560.0	23.17	22.35	20.90	17.54
	1 RB low	3690.0	23.54	22.47	21.08	17.54
		3625.0	23.37	22.34	20.95	17.54
		3560.0	23.22	22.31	20.90	17.70
	50% RB mid	3690.0	22.38	21.46	20.43	17.88
		3625.0	22.23	21.28	20.25	18.06
		3560.0	22.21	21.23	20.23	18.20
	100% RB	3690.0	22.41	21.43	20.46	17.93
		3625.0	22.21	21.28	20.28	18.05
		3560.0	22.17	21.23	20.22	18.15

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LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.51	22.77	21.71	19.34
		1745.0	23.52	22.89	21.75	19.30
		1710.7	23.86	22.95	22.00	18.96
	1 RB low	1779.3	23.58	22.85	21.76	19.52
		1745.0	23.56	22.80	21.84	19.38
		1710.7	23.75	22.96	22.03	19.46
	50% RB mid	1779.3	23.58	22.60	21.68	18.97
		1745.0	23.62	22.57	21.63	18.99
		1710.7	23.74	22.81	21.86	18.79
	100% RB	1779.3	22.61	21.75	20.66	18.81
		1745.0	22.55	21.71	20.68	18.85
		1710.7	22.87	21.94	20.80	18.95
3MHz	1 RB high	1778.5	23.61	22.73	21.78	19.34
		1745.0	23.58	22.82	21.78	19.28
		1711.5	23.58	22.90	21.85	19.32
	1 RB low	1778.5	23.47	22.81	21.76	19.28
		1745.0	23.68	22.78	21.84	19.20
		1711.5	23.70	23.00	22.03	19.28
	50% RB mid	1778.5	22.52	21.64	20.67	18.99
		1745.0	22.51	21.63	20.74	18.75
		1711.5	22.74	21.77	20.80	18.85
	100% RB	1778.5	22.51	21.61	20.72	18.91
		1745.0	22.50	21.66	20.71	18.77
		1711.5	22.72	21.83	20.78	18.93
5MHz	1 RB high	1777.5	23.56	22.75	21.81	19.34
		1745.0	23.56	22.85	21.73	19.18
		1712.5	23.58	22.80	21.80	19.18
	1 RB low	1777.5	23.57	22.77	21.74	19.18
		1745.0	23.64	22.78	21.70	19.12
		1712.5	23.78	23.01	21.97	19.30
	50% RB mid	1777.5	22.54	21.59	20.63	19.01
		1745.0	22.55	21.53	20.71	18.67
		1712.5	22.74	21.70	20.78	18.75
	100% RB	1777.5	22.59	21.56	20.64	18.73
		1745.0	22.57	21.55	20.72	18.69
		1712.5	22.72	21.72	20.74	18.89
10MHz	1 RB high	1775.0	23.54	22.71	21.68	19.38
		1745.0	23.49	22.77	21.69	19.22
		1715.0	23.69	22.87	21.92	19.28
	1 RB low	1775.0	23.49	22.77	21.66	19.26

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		1745.0	23.56	22.79	21.68	19.14
		1715.0	23.83	22.85	21.86	19.04
	50% RB mid	1775.0	22.47	21.48	20.59	18.83
		1745.0	22.51	21.48	20.62	18.93
		1715.0	22.66	21.61	20.68	18.73
	100% RB	1775.0	22.52	21.50	20.58	18.65
		1745.0	22.48	21.53	20.61	19.03
		1715.0	22.64	21.66	20.68	18.87
15MHz	1 RB high	1772.5	23.82	22.86	21.76	19.44
		1745.0	23.64	22.92	21.82	19.12
		1717.5	23.82	23.00	21.95	19.14
	1 RB low	1772.5	23.55	22.82	21.95	19.28
		1745.0	23.79	22.85	21.75	19.40
		1717.5	23.86	23.11	21.91	19.22
	50% RB mid	1772.5	22.57	21.47	20.65	18.81
		1745.0	22.59	21.55	20.67	18.87
		1717.5	22.72	21.70	20.78	18.99
	100% RB	1772.5	22.58	21.56	20.63	18.93
		1745.0	22.64	21.61	20.66	18.91
		1717.5	22.78	21.75	20.75	18.73
20MHz	1 RB high	1770.0	23.61	22.88	21.85	19.44
		1745.0	23.70	23.05	21.92	19.14
		1720.0	23.71	22.92	21.90	19.18
	1 RB low	1770.0	23.50	22.76	21.79	19.36
		1745.0	23.79	22.89	21.77	19.26
		1720.0	23.89	23.14	21.94	19.22
	50% RB mid	1770.0	22.58	21.59	20.69	18.91
		1745.0	22.61	21.61	20.73	18.81
		1720.0	22.75	21.74	20.75	18.87
	100% RB	1770.0	22.53	21.56	20.64	18.77
		1745.0	22.61	21.61	20.70	18.83
		1720.0	22.81	21.81	20.79	18.85

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LTE CA band 7C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
10MHz/20MHz	2525.6	2540.0	QPSK	1	49	1	0	23.32
			QPSK	50	0	100	0	21.32
			16QAM	1	49	1	0	22.32
			16QAM	50	0	100	0	20.35
			64QAM	1	49	1	0	20.19
			64QAM	50	0	100	0	20.37
			256QAM	1	49	1	0	18.38
			256QAM	50	0	100	0	18.39
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	23.47
			QPSK	75	0	50	0	21.39
			16QAM	1	74	1	0	22.18
			16QAM	75	0	50	0	20.39
			64QAM	1	74	1	0	20.16
			64QAM	75	0	50	0	20.38
			256QAM	1	74	1	0	18.55
			256QAM	75	0	50	0	18.37
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	23.41
			QPSK	75	0	75	0	21.40
			16QAM	1	74	1	0	22.24
			16QAM	75	0	75	0	20.39
			64QAM	1	74	1	0	20.47
			64QAM	75	0	75	0	20.43
			256QAM	1	74	1	0	18.41
			256QAM	75	0	75	0	18.39
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	23.41
			QPSK	75	0	100	0	21.42
			16QAM	1	74	1	0	22.25
			16QAM	75	0	100	0	20.40
			64QAM	1	74	1	0	20.52
			64QAM	75	0	100	0	20.44
			256QAM	1	74	1	0	18.39
			256QAM	75	0	100	0	18.42
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	23.28
			QPSK	100	0	50	0	21.46
			16QAM	1	99	1	0	22.49
			16QAM	100	0	50	0	20.45
			64QAM	1	99	1	0	20.45
			64QAM	100	0	50	0	20.50
			256QAM	1	99	1	0	18.27

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			256QAM	100	0	50	0	18.42
20MHz/15MHz	2527.6	2544.7	QPSK	1	99	1	0	23.47
			QPSK	100	0	75	0	21.45
			16QAM	1	99	1	0	22.45
			16QAM	100	0	75	0	20.46
			64QAM	1	99	1	0	20.55
			64QAM	100	0	75	0	20.47
			256QAM	1	99	1	0	18.28
			256QAM	100	0	75	0	18.43
20MHz/20MHz	2525.1	2544.9	QPSK	1	99	1	0	23.55
			QPSK	100	0	100	0	21.48
			16QAM	1	99	1	0	22.56
			16QAM	100	0	100	0	20.44
			64QAM	1	99	1	0	20.67
			64QAM	100	0	100	0	20.46
			256QAM	1	99	1	0	18.37
			256QAM	100	0	100	0	18.46

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LTE CA band 41C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	23.41
			QPSK	25	0	100	0	21.42
			16QAM	1	24	1	0	22.39
			16QAM	25	0	100	0	20.45
			64QAM	1	24	1	0	20.34
			64QAM	25	0	100	0	20.44
			256QAM	1	24	1	0	18.44
			256QAM	25	0	100	0	18.43
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.55
			QPSK	50	0	75	0	21.43
			16QAM	1	49	1	0	22.51
			16QAM	50	0	75	0	20.44
			64QAM	1	49	1	0	20.29
			64QAM	50	0	75	0	20.45
			256QAM	1	49	1	0	18.43
			256QAM	50	0	75	0	18.45
10MHz/20MHz	2583.6	2598.0	QPSK	1	49	1	0	23.47
			QPSK	50	0	100	0	21.42
			16QAM	1	49	1	0	22.43
			16QAM	50	0	100	0	20.44
			64QAM	1	49	1	0	20.23
			64QAM	50	0	100	0	20.44
			256QAM	1	49	1	0	18.38
			256QAM	50	0	100	0	18.42
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.57
			QPSK	75	0	50	0	21.40
			16QAM	1	74	1	0	22.52
			16QAM	75	0	50	0	20.40
			64QAM	1	74	1	0	20.33
			64QAM	75	0	50	0	20.42
			256QAM	1	74	1	0	18.47
			256QAM	75	0	50	0	18.43
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.55
			QPSK	75	0	75	0	21.41
			16QAM	1	74	1	0	22.53
			16QAM	75	0	75	0	20.39
			64QAM	1	74	1	0	20.14
			64QAM	75	0	75	0	20.40
			256QAM	1	74	1	0	18.38

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			256QAM	75	0	75	0	18.41
15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.50
			QPSK	75	0	100	0	21.39
			16QAM	1	74	1	0	22.39
			16QAM	75	0	100	0	20.43
			64QAM	1	74	1	0	20.50
			64QAM	75	0	100	0	20.40
			256QAM	1	74	1	0	18.57
			256QAM	75	0	100	0	18.39
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	23.44
			QPSK	100	0	25	0	21.44
			16QAM	1	99	1	0	22.52
			16QAM	100	0	25	0	20.47
			64QAM	1	99	1	0	20.50
			64QAM	100	0	25	0	20.49
			256QAM	1	99	1	0	18.32
			256QAM	100	0	25	0	18.42
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.47
			QPSK	100	0	50	0	21.43
			16QAM	1	99	1	0	22.30
			16QAM	100	0	50	0	20.46
			64QAM	1	99	1	0	20.25
			64QAM	100	0	50	0	20.42
			256QAM	1	99	1	0	18.65
			256QAM	100	0	50	0	18.44
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	23.37
			QPSK	100	0	75	0	21.43
			16QAM	1	99	1	0	22.51
			16QAM	100	0	75	0	20.44
			64QAM	1	99	1	0	20.55
			64QAM	100	0	75	0	20.48
			256QAM	1	99	1	0	18.33
			256QAM	100	0	75	0	18.39
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	23.41
			QPSK	100	0	100	0	21.44
			16QAM	1	99	1	0	22.31
			16QAM	100	0	100	0	20.43
			64QAM	1	99	1	0	20.26
			64QAM	100	0	100	0	20.42
			256QAM	1	99	1	0	18.61
			256QAM	100	0	100	0	18.44

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A.1.3 Radiated

A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

FDD Band 25: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

FDD Band 66: Part 27.50(d)(4) specifies "Fixed, mobile, and portable(handheld) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP".

FDD Band 26(824MHz~849MHz): Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

FDD Band 12/71: Part 27.50(c)(10) specifies "Portable stations(hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

FDD Band 13: Part 27.50(b) specifies "Portable stations(hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP".

FDD Band 7/TDD Band 41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

LTE Band 26(814MHz~824MHz): Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

TDD Band 48: Part 96.41(b) specifies the maximum effective isotropic radiated power(EIRP) of any End User Device must comply with the limits of 23dBm/10MHz.

A.1.3.2 Method of Measurement

According to KDB 412172 D01 and ANSI C63.26 the relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\mathbf{ERP\ or\ EIRP} = \mathbf{P_T} + \mathbf{G_T} - \mathbf{L_C}$$

where;

- $\mathbf{ERP\ or\ EIRP}$ = effective radiated power or equivalent isotropically radiated power(expressed in the same units as P_T.
- $\mathbf{P_T}$ = transmitter output power, in this report the unit express as dBm;
- $\mathbf{G_T}$ = gain of the transmitting antenna, in dBd(ERP) or dBi(EIRP);
- $\mathbf{L_C}$ = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Alternatively, the EIRP can be determined from Equation above and then converted to ERP based on the maximum antenna gain relationship by applying the following equation:

$$\mathbf{ERP} = \mathbf{EIRP} - \mathbf{2.15dB}$$

Note: The antenna gain information was provided by the client. The laboratory is not responsible for identifying its authenticity during the test.

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A.1.3.3 Limits and Measurement Results

LTE Band 7-EIRP

Limits: ≤33dBm(2W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -2.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.49	22.96	21.77	18.85	20.99	20.46	19.27	16.35
		2535	23.83	22.88	21.77	18.89	21.33	20.38	19.27	16.39
		2502.5	23.68	23.08	21.86	18.81	21.18	20.58	19.36	16.31
	1 RB low	2567.5	23.74	22.96	21.68	18.89	21.24	20.46	19.18	16.39
		2535	23.86	23.24	21.98	18.89	21.36	20.74	19.48	16.39
		2502.5	23.64	23.02	21.76	18.87	21.14	20.52	19.26	16.37
	50% RB mid	2567.5	22.72	21.5	20.8	18.59	20.22	19.00	18.30	16.09
		2535	22.81	21.83	20.82	18.65	20.31	19.33	18.32	16.15
		2502.5	22.68	21.83	20.69	18.65	20.18	19.33	18.19	16.15
	100% RB	2567.5	22.72	21.69	20.56	18.38	20.22	19.19	18.06	15.88
		2535	22.83	21.62	20.81	18.44	20.33	19.12	18.31	15.94
		2502.5	22.68	21.76	20.79	18.7	20.18	19.26	18.29	16.20
10MHz	1 RB high	2565	23.65	22.72	21.87	18.73	21.15	20.22	19.37	16.23
		2535	23.71	23.02	21.91	19.23	21.21	20.52	19.41	16.73
		2505	23.79	23.05	21.92	19.45	21.29	20.55	19.42	16.95
	1 RB low	2565	23.64	22.99	21.59	18.87	21.14	20.49	19.09	16.37
		2535	23.73	23.2	22.05	19.13	21.23	20.70	19.55	16.63
		2505	23.66	22.66	21.78	19.25	21.16	20.16	19.28	16.75
	50% RB mid	2565	22.63	21.57	20.65	18.83	20.13	19.07	18.15	16.33
		2535	22.76	21.71	20.68	19.03	20.26	19.21	18.18	16.53
		2505	22.66	21.75	20.63	18.79	20.16	19.25	18.13	16.29
	100% RB	2565	22.56	21.73	20.83	18.76	20.06	19.23	18.33	16.26
		2535	22.76	21.66	20.93	18.38	20.26	19.16	18.43	15.88
		2505	22.67	21.78	20.96	18.8	20.17	19.28	18.46	16.30
15MHz	1 RB high	2562.5	23.08	22.79	21.84	19.03	20.58	20.29	19.34	16.53
		2535	23.63	22.88	21.87	18.87	21.13	20.38	19.37	16.37
		2507.5	23.83	22.97	22.01	19.07	21.33	20.47	19.51	16.57
	1 RB low	2562.5	23.65	22.94	21.76	18.87	21.15	20.44	19.26	16.37
		2535	23.87	22.96	22.07	18.93	21.37	20.46	19.57	16.43
		2507.5	23.72	22.76	21.87	18.97	21.22	20.26	19.37	16.47
	50% RB mid	2562.5	22.61	21.66	20.63	18.99	20.11	19.16	18.13	16.49
		2535	22.82	21.8	20.84	18.57	20.32	19.30	18.34	16.07
		2507.5	22.72	21.72	20.71	18.89	20.22	19.22	18.21	16.39
	100% RB	2562.5	22.6	21.67	20.64	18.46	20.10	19.17	18.14	15.96
		2535	22.79	21.81	20.8	18.52	20.29	19.31	18.30	16.02
		2507.5	22.74	21.76	20.72	18.76	20.24	19.26	18.22	16.26

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20MHz	1 RB high	2560	23.51	22.9	21.86	18.89	21.01	20.40	19.36	16.39
		2535	23.63	23	21.82	19.03	21.13	20.50	19.32	16.53
		2510	23.85	22.95	22.01	18.89	21.35	20.45	19.51	16.39
	1 RB low	2560	23.69	22.79	21.76	18.95	21.19	20.29	19.26	16.45
		2535	23.72	23.1	21.96	18.97	21.22	20.60	19.46	16.47
		2510	23.6	22.84	21.68	19.05	21.10	20.34	19.18	16.55
	50% RB mid	2560	22.6	21.63	20.62	18.75	20.10	19.13	18.12	16.25
		2535	22.79	21.83	20.81	18.93	20.29	19.33	18.31	16.43
		2510	22.75	21.78	20.74	18.71	20.25	19.28	18.24	16.21
	100% RB	2560	22.6	21.62	20.64	18.56	20.10	19.12	18.14	16.06
		2535	22.76	21.77	20.79	18.48	20.26	19.27	18.29	15.98
		2510	22.74	21.75	20.76	18.62	20.24	19.25	18.26	16.12

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LTE Band 12-ERP

Limits: ≤34.77dBm(3W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.62	22.77	21.6	18.44	16.47	15.62	14.45	11.29
		707.5	23.59	22.9	21.76	18.54	16.44	15.75	14.61	11.39
		699.7	23.59	22.82	21.76	18.76	16.44	15.67	14.61	11.61
	1 RB low	715.3	23.61	22.71	21.65	18.38	16.46	15.56	14.50	11.23
		707.5	23.58	22.83	21.83	18.48	16.43	15.68	14.68	11.33
		699.7	23.61	22.76	21.72	18.7	16.46	15.61	14.57	11.55
	50% RB mid	715.3	23.49	22.53	21.58	18.9	16.34	15.38	14.43	11.75
		707.5	23.53	22.56	21.57	18.98	16.38	15.41	14.42	11.83
		699.7	23.56	22.58	21.62	19.2	16.41	15.43	14.47	12.05
	100% RB	715.3	22.52	21.67	20.5	18.89	15.37	14.52	13.35	11.74
		707.5	22.57	21.69	20.61	18.65	15.42	14.54	13.46	11.50
		699.7	22.56	21.68	20.55	18.67	15.41	14.53	13.40	11.52
3MHz	1 RB high	714.5	23.56	22.7	21.78	18.7	16.41	15.55	14.63	11.55
		707.5	23.48	22.8	21.72	18.62	16.33	15.65	14.57	11.47
		700.5	23.64	22.76	21.77	18.7	16.49	15.61	14.62	11.55
	1 RB low	714.5	23.58	22.85	21.67	18.56	16.43	15.70	14.52	11.41
		707.5	23.64	22.9	21.82	18.62	16.49	15.75	14.67	11.47
		700.5	23.56	22.75	21.68	18.66	16.41	15.60	14.53	11.51
	50% RB mid	714.5	22.54	21.63	20.54	18.96	15.39	14.48	13.39	11.81
		707.5	22.57	21.58	20.59	18.64	15.42	14.43	13.44	11.49
		700.5	22.61	21.67	20.58	18.76	15.46	14.52	13.43	11.61
	100% RB	714.5	22.55	21.61	20.57	18.89	15.40	14.46	13.42	11.74
		707.5	22.58	21.66	20.56	18.59	15.43	14.51	13.41	11.44
		700.5	22.63	21.63	20.6	18.81	15.48	14.48	13.45	11.66
5MHz	1 RB high	713.5	23.67	22.75	21.73	18.4	16.52	15.60	14.58	11.25
		707.5	23.68	22.84	21.74	18.66	16.53	15.69	14.59	11.51
		701.5	23.72	22.95	21.79	18.64	16.57	15.80	14.64	11.49
	1 RB low	713.5	23.69	22.97	21.74	18.34	16.54	15.82	14.59	11.19
		707.5	23.71	23.03	21.86	18.54	16.56	15.88	14.71	11.39
		701.5	23.67	22.94	21.82	18.6	16.52	15.79	14.67	11.45
	50% RB mid	713.5	22.69	21.69	20.66	18.76	15.54	14.54	13.51	11.61
		707.5	22.62	21.69	20.66	18.56	15.47	14.54	13.51	11.41
		701.5	22.7	21.71	20.69	19	15.55	14.56	13.54	11.85
	100% RB	713.5	22.69	21.63	20.63	18.69	15.54	14.48	13.48	11.54
		707.5	22.73	21.67	20.61	18.59	15.58	14.52	13.46	11.44
		701.5	22.74	21.69	20.66	18.49	15.59	14.54	13.51	11.34
10MHz	1 RB high	711	23.73	22.87	21.69	18.52	16.58	15.72	14.54	11.37
		707.5	23.67	22.92	21.81	18.4	16.52	15.77	14.66	11.25

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		704	23.83	22.97	21.78	18.58	16.68	15.82	14.63	11.43
	1 RB low	711	23.79	23.15	21.94	18.42	16.64	16.00	14.79	11.27
		707.5	23.88	23.08	21.91	18.52	16.73	15.93	14.76	11.37
		704	23.81	23.01	21.9	18.54	16.66	15.86	14.75	11.39
	50% RB mid	711	22.7	21.67	20.64	18.48	15.55	14.52	13.49	11.33
		707.5	22.74	21.72	20.67	18.48	15.59	14.57	13.52	11.33
		704	22.74	21.73	20.69	18.58	15.59	14.58	13.54	11.43
	100% RB	711	22.72	21.69	20.67	18.77	15.57	14.54	13.52	11.62
		707.5	22.77	21.73	20.7	18.65	15.62	14.58	13.55	11.50
		704	22.75	21.72	20.65	18.65	15.60	14.57	13.50	11.50

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LTE Band 13-ERP

Limits: ≤34.77dBm(3W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.52	22.78	21.78	18.64	16.37	15.63	14.63	11.49
		782	23.68	22.9	21.77	18.82	16.53	15.75	14.62	11.67
		779.5	23.65	22.9	21.79	19.06	16.50	15.75	14.64	11.91
	1 RB low	784.5	23.62	22.97	21.78	18.7	16.47	15.82	14.63	11.55
		782	23.58	22.78	21.82	18.64	16.43	15.63	14.67	11.49
		779.5	23.69	22.83	21.76	18.88	16.54	15.68	14.61	11.73
	50% RB mid	784.5	22.67	21.68	20.69	18.71	15.52	14.53	13.54	11.56
		782	22.59	21.61	20.62	18.79	15.44	14.46	13.47	11.64
		779.5	22.56	21.51	20.55	18.97	15.41	14.36	13.40	11.82
	100% RB	784.5	22.68	21.65	20.62	18.54	15.53	14.50	13.47	11.39
		782	22.66	21.65	20.62	18.64	15.51	14.50	13.47	11.49
		779.5	22.63	21.63	20.58	18.72	15.48	14.48	13.43	11.57
10MHz	1 RB high	782	23.54	22.88	21.79	18.6	16.39	15.73	14.64	11.45
	1 RB low	782	23.65	22.8	21.79	18.76	16.50	15.65	14.64	11.61
	50% RB mid	782	22.63	21.6	20.62	18.61	15.48	14.45	13.47	11.46
	100% RB	782	22.6	21.61	20.6	18.56	15.45	14.46	13.45	11.41

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LTE Band 25-EIRP

Limits: ≤33dBm(2W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -0.2dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.7	22.72	21.78	19.41	23.50	22.52	21.58	19.21
		1882.5	23.71	22.71	21.77	19.29	23.51	22.51	21.57	19.09
		1850.7	23.55	22.63	21.63	19.57	23.35	22.43	21.43	19.37
	1 RB low	1914.3	23.56	22.81	21.8	19.31	23.36	22.61	21.60	19.11
		1882.5	23.62	22.81	21.73	19.07	23.42	22.61	21.53	18.87
		1850.7	23.53	22.53	21.68	19.45	23.33	22.33	21.48	19.25
	50% RB mid	1914.3	23.69	22.71	21.67	18.89	23.49	22.51	21.47	18.69
		1882.5	23.53	22.64	21.59	19.09	23.33	22.44	21.39	18.89
		1850.7	23.52	22.54	21.67	19.05	23.32	22.34	21.47	18.85
	100% RB	1914.3	22.65	21.73	20.68	19.03	22.45	21.53	20.48	18.83
		1882.5	22.61	21.73	20.65	19.15	22.41	21.53	20.45	18.95
		1850.7	22.54	21.6	20.57	19.15	22.34	21.40	20.37	18.95
3MHz	1 RB high	1913.5	23.69	22.72	21.84	19.47	23.49	22.52	21.64	19.27
		1882.5	23.63	22.79	21.82	19.07	23.43	22.59	21.62	18.87
		1851.5	23.48	22.65	21.62	19.43	23.28	22.45	21.42	19.23
	1 RB low	1913.5	23.71	22.71	21.74	19.43	23.51	22.51	21.54	19.23
		1882.5	23.68	22.73	21.81	19.19	23.48	22.53	21.61	18.99
		1851.5	23.7	22.64	21.71	19.37	23.50	22.44	21.51	19.17
	50% RB mid	1913.5	22.61	21.65	20.83	18.93	22.41	21.45	20.63	18.73
		1882.5	22.55	21.62	20.66	19.11	22.35	21.42	20.46	18.91
		1851.5	22.58	21.59	20.63	18.89	22.38	21.39	20.43	18.69
	100% RB	1913.5	22.63	21.74	20.8	18.89	22.43	21.54	20.60	18.69
		1882.5	22.56	21.61	20.65	18.99	22.36	21.41	20.45	18.79
		1851.5	22.5	21.61	20.58	19.11	22.30	21.41	20.38	18.91
5MHz	1 RB high	1912.5	23.76	22.88	21.81	19.29	23.56	22.68	21.61	19.09
		1882.5	23.6	22.96	21.76	18.95	23.40	22.76	21.56	18.75
		1852.5	23.58	22.7	21.67	19.33	23.38	22.50	21.47	19.13
	1 RB low	1912.5	23.66	22.85	21.84	19.39	23.46	22.65	21.64	19.19
		1882.5	23.68	22.77	21.88	19.01	23.48	22.57	21.68	18.81
		1852.5	23.42	22.79	21.71	19.21	23.22	22.59	21.51	19.01
	50% RB mid	1912.5	22.66	21.69	20.81	19.09	22.46	21.49	20.61	18.89
		1882.5	22.65	21.64	20.73	18.79	22.45	21.44	20.53	18.59
		1852.5	22.55	21.51	20.64	18.69	22.35	21.31	20.44	18.49
	100% RB	1912.5	22.73	21.7	20.8	18.69	22.53	21.50	20.60	18.49
		1882.5	22.65	21.64	20.73	18.69	22.45	21.44	20.53	18.49
		1852.5	22.58	21.63	20.64	18.87	22.38	21.43	20.44	18.67
10MHz	1 RB high	1910	23.74	22.7	21.76	19.09	23.54	22.50	21.56	18.89
		1882.5	23.66	22.84	21.76	19.35	23.46	22.64	21.56	19.15

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		1855	23.55	22.71	21.7	19.69	23.35	22.51	21.50	19.49
	1 RB low	1910	23.69	22.96	21.8	19.11	23.49	22.76	21.60	18.91
		1882.5	23.6	22.72	21.7	19.17	23.40	22.52	21.50	18.97
		1855	23.51	22.85	21.67	19.55	23.31	22.65	21.47	19.35
	50% RB mid	1910	22.67	21.63	20.73	19.03	22.47	21.43	20.53	18.83
		1882.5	22.61	21.59	20.66	18.79	22.41	21.39	20.46	18.59
		1855	22.58	21.53	20.59	18.75	22.38	21.33	20.39	18.55
	100% RB	1910	22.67	21.67	20.71	18.97	22.47	21.47	20.51	18.77
		1882.5	22.59	21.58	20.64	18.81	22.39	21.38	20.44	18.61
		1855	22.61	21.58	20.57	19.19	22.41	21.38	20.37	18.99
15MHz	1 RB high	1907.5	23.83	23.05	21.98	19.21	23.63	22.85	21.78	19.01
		1882.5	23.77	22.94	21.81	19.21	23.57	22.74	21.61	19.01
		1857.5	23.65	22.85	21.74	19.55	23.45	22.65	21.54	19.35
	1 RB low	1907.5	23.71	22.83	21.9	19.37	23.51	22.63	21.70	19.17
		1882.5	23.72	23.08	21.85	19.33	23.52	22.88	21.65	19.13
		1857.5	23.64	22.86	21.76	19.45	23.44	22.66	21.56	19.25
	50% RB mid	1907.5	22.74	21.7	20.78	18.77	22.54	21.50	20.58	18.57
		1882.5	22.69	21.65	20.7	19.11	22.49	21.45	20.50	18.91
		1857.5	22.62	21.57	20.64	18.97	22.42	21.37	20.44	18.77
	100% RB	1907.5	22.75	21.75	20.77	18.93	22.55	21.55	20.57	18.73
		1882.5	22.69	21.67	20.69	18.93	22.49	21.47	20.49	18.73
		1857.5	22.65	21.64	20.65	18.93	22.45	21.44	20.45	18.73
20MHz	1 RB high	1905	23.84	23.02	21.9	19.25	23.64	22.82	21.70	19.05
		1882.5	23.73	22.89	21.85	19.31	23.53	22.69	21.65	19.11
		1860	23.7	22.98	21.9	19.23	23.50	22.78	21.70	19.03
	1 RB low	1905	23.73	22.8	21.99	19.29	23.53	22.60	21.79	19.09
		1882.5	23.73	23.06	21.87	19.19	23.53	22.86	21.67	18.99
		1860	23.61	22.69	21.84	19.35	23.41	22.49	21.64	19.15
	50% RB mid	1905	22.72	21.73	20.75	18.77	22.52	21.53	20.55	18.57
		1882.5	22.68	21.69	20.73	18.89	22.48	21.49	20.53	18.69
		1860	22.67	21.64	20.68	18.77	22.47	21.44	20.48	18.57
	100% RB	1905	22.76	21.78	20.78	18.87	22.56	21.58	20.58	18.67
		1882.5	22.69	21.71	20.72	18.89	22.49	21.51	20.52	18.69
		1860	22.65	21.63	20.7	19.01	22.45	21.43	20.50	18.81

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LTE Band 26(814MHz-824MHz)-ERP

Limits: ≤50dBm(100W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.53	22.63	21.47	18.57	16.38	15.48	14.32	11.42
		819	23.43	22.65	21.54	18.38	16.28	15.50	14.39	11.23
		814.7	23.38	22.51	21.81	18.61	16.23	15.36	14.66	11.46
	1 RB low	823.3	23.5	22.58	21.38	18.58	16.35	15.43	14.23	11.43
		819	23.44	22.64	21.53	18.39	16.29	15.49	14.38	11.24
		814.7	23.37	22.47	21.71	18.62	16.22	15.32	14.56	11.47
	50% RB mid	823.3	23.6	22.71	21.77	18.59	16.45	15.56	14.62	11.44
		819	23.48	22.67	21.75	18.56	16.33	15.52	14.60	11.41
		814.7	23.53	22.63	21.4	18.53	16.38	15.48	14.25	11.38
	100% RB	823.3	22.55	21.8	20.56	18.58	15.40	14.65	13.41	11.43
		819	22.51	21.43	20.64	18.59	15.36	14.28	13.49	11.44
		814.7	22.48	21.73	20.47	18.56	15.33	14.58	13.32	11.41
3MHz	1 RB high	822.5	23.48	22.58	21.42	18.55	16.33	15.43	14.27	11.40
		819	23.43	22.52	21.33	18.55	16.28	15.37	14.18	11.40
		815.5	23.41	22.48	21.33	18.52	16.26	15.33	14.18	11.37
	1 RB low	822.5	23.44	22.59	21.39	18.55	16.29	15.44	14.24	11.40
		819	23.39	22.49	21.34	18.47	16.24	15.34	14.19	11.32
		815.5	23.43	22.52	21.24	18.51	16.28	15.37	14.09	11.36
	50% RB mid	822.5	22.53	21.6	20.61	18.59	15.38	14.45	13.46	11.44
		819	22.44	21.52	20.54	18.55	15.29	14.37	13.39	11.40
		815.5	22.43	21.51	20.4	18.49	15.28	14.36	13.25	11.34
	100% RB	822.5	22.56	21.54	20.62	18.58	15.41	14.39	13.47	11.43
		819	22.49	21.48	20.53	18.52	15.34	14.33	13.38	11.37
		815.5	22.46	21.44	20.49	18.51	15.31	14.29	13.34	11.36
5MHz	1 RB high	821.5	23.68	22.68	21.91	18.69	16.53	15.53	14.76	11.54
		819	23.67	22.66	21.78	18.69	16.52	15.51	14.63	11.54
		816.5	23.6	22.61	21.75	18.66	16.45	15.46	14.60	11.51
	1 RB low	821.5	23.6	22.61	21.96	18.65	16.45	15.46	14.81	11.50
		819	23.53	22.57	21.89	18.6	16.38	15.42	14.74	11.45
		816.5	23.62	22.62	21.87	18.62	16.47	15.47	14.72	11.47
	50% RB mid	821.5	22.6	21.66	20.78	18.71	15.45	14.51	13.63	11.56
		819	22.55	21.62	20.75	18.68	15.40	14.47	13.60	11.53
		816.5	22.52	21.58	20.61	18.62	15.37	14.43	13.46	11.47
	100% RB	821.5	22.62	21.59	20.7	18.67	15.47	14.44	13.55	11.52
		819	22.59	21.55	20.66	18.65	15.44	14.40	13.51	11.50
		816.5	22.59	21.54	20.62	18.61	15.44	14.39	13.47	11.46
10MHz	1 RB high	819	23.66	22.73	21.6	18.71	16.51	15.58	14.45	11.56

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	1 RB low	819	23.66	22.73	21.57	18.73	16.51	15.58	14.42	11.58
	50% RB mid	819	23.64	22.72	21.52	18.71	16.49	15.57	14.37	11.56
	100% RB	819	23.5	22.58	21.61	18.63	16.35	15.43	14.46	11.48

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LTE Band 26(824MHz-894MHz)-ERP

Limits: ≤38.45dBm(3W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.75	22.98	21.64	18.95	16.60	15.83	14.49	11.80
		836.5	23.72	22.81	21.84	18.68	16.57	15.66	14.69	11.53
		824.7	23.52	22.61	21.94	18.69	16.37	15.46	14.79	11.54
	1 RB low	848.3	23.79	23	21.71	18.95	16.64	15.85	14.56	11.80
		836.5	23.73	22.8	21.83	18.63	16.58	15.65	14.68	11.48
		824.7	23.51	22.58	21.91	18.66	16.36	15.43	14.76	11.51
	50% RB mid	848.3	23.8	23.03	21.73	18.99	16.65	15.88	14.58	11.84
		836.5	23.77	22.97	21.9	18.83	16.62	15.82	14.75	11.68
		824.7	23.55	22.74	21.49	18.58	16.40	15.59	14.34	11.43
	100% RB	848.3	22.86	21.77	20.88	19.05	15.71	14.62	13.73	11.90
		836.5	22.8	21.71	20.86	18.84	15.65	14.56	13.71	11.69
		824.7	22.59	21.53	20.55	18.58	15.44	14.38	13.40	11.43
3MHz	1 RB high	847.5	23.72	22.87	21.67	18.93	16.57	15.72	14.52	11.78
		836.5	23.71	22.79	21.67	18.83	16.56	15.64	14.52	11.68
		825.5	23.52	22.59	21.48	18.62	16.37	15.44	14.33	11.47
	1 RB low	847.5	23.82	22.94	21.69	18.9	16.67	15.79	14.54	11.75
		836.5	23.69	22.78	21.5	18.75	16.54	15.63	14.35	11.60
		825.5	23.53	22.61	21.38	18.57	16.38	15.46	14.23	11.42
	50% RB mid	847.5	22.76	21.92	20.89	18.96	15.61	14.77	13.74	11.81
		836.5	22.75	21.86	20.86	18.86	15.60	14.71	13.71	11.71
		825.5	22.51	21.58	20.48	18.56	15.36	14.43	13.33	11.41
	100% RB	847.5	22.88	21.86	20.92	18.96	15.73	14.71	13.77	11.81
		836.5	22.8	21.78	20.88	18.86	15.65	14.63	13.73	11.71
		825.5	22.55	21.53	20.58	18.59	15.40	14.38	13.43	11.44
5MHz	1 RB high	846.5	23.92	22.91	22.26	19.06	16.77	15.76	15.11	11.91
		836.5	23.89	22.93	22.14	19	16.74	15.78	14.99	11.85
		826.5	23.71	22.74	21.92	18.78	16.56	15.59	14.77	11.63
	1 RB low	846.5	23.96	22.99	22.2	19.12	16.81	15.84	15.05	11.97
		836.5	23.78	22.87	22.16	18.89	16.63	15.72	15.01	11.74
		826.5	23.68	22.7	21.97	18.72	16.53	15.55	14.82	11.57
	50% RB mid	846.5	22.88	22.02	21.09	19.09	15.73	14.87	13.94	11.94
		836.5	22.85	21.9	21.02	18.94	15.70	14.75	13.87	11.79
		826.5	22.61	21.67	20.7	18.72	15.46	14.52	13.55	11.57
	100% RB	846.5	22.94	21.9	21.02	19.06	15.79	14.75	13.87	11.91
		836.5	22.86	21.83	20.9	18.92	15.71	14.68	13.75	11.77
		826.5	22.66	21.63	20.72	18.7	15.51	14.48	13.57	11.55
10MHz	1 RB high	844	23.88	23.02	21.7	19.1	16.73	15.87	14.55	11.95

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		836.5	23.91	22.97	21.82	19.08	16.76	15.82	14.67	11.93
		829	23.81	22.87	21.74	18.93	16.66	15.72	14.59	11.78
	1 RB low	844	23.87	22.94	21.73	19.03	16.72	15.79	14.58	11.88
		836.5	23.77	22.83	21.75	18.89	16.62	15.68	14.60	11.74
		829	23.59	22.68	21.66	18.67	16.44	15.53	14.51	11.52
	50% RB mid	844	22.98	22.05	21.05	19.1	15.83	14.90	13.90	11.95
		836.5	22.93	21.98	21	18.93	15.78	14.83	13.85	11.78
		829	22.78	21.78	20.85	18.78	15.63	14.63	13.70	11.63
	100% RB	844	22.97	21.98	20.99	19	15.82	14.83	13.84	11.85
		836.5	22.89	21.91	20.88	18.88	15.74	14.76	13.73	11.73
		829	22.73	21.77	20.74	18.73	15.58	14.62	13.59	11.58
15MHz	1 RB high	841.5	23.93	23.19	22.43	19.3	16.78	16.04	15.28	12.15
		836.5	23.96	23.33	22.39	19.33	16.81	16.18	15.24	12.18
		831.5	23.91	23.27	22.33	19.21	16.76	16.12	15.18	12.06
	1 RB low	841.5	23.85	23.21	22.33	19.15	16.70	16.06	15.18	12.00
		836.5	23.69	23.1	22.36	19.01	16.54	15.95	15.21	11.86
		831.5	23.6	22.99	22.31	18.94	16.45	15.84	15.16	11.79
	50% RB mid	841.5	23.03	21.97	21.01	19.03	15.88	14.82	13.86	11.88
		836.5	22.97	21.91	20.94	18.91	15.82	14.76	13.79	11.76
		831.5	22.92	21.79	20.92	18.8	15.77	14.64	13.77	11.65
	100% RB	841.5	22.97	22	21.03	19.04	15.82	14.85	13.88	11.89
		836.5	22.91	21.93	20.93	18.94	15.76	14.78	13.78	11.79
		831.5	22.81	21.84	20.81	18.82	15.66	14.69	13.66	11.67

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LTE Band 41-EIRP

Limits: ≤33dBm(2W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -2.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	24.13	23.15	21.78	18.8	21.63	20.65	19.28	16.30
		2593	23.59	22.7	21.23	19.02	21.09	20.20	18.73	16.52
		2498.5	23.09	22.14	21	18.72	20.59	19.64	18.50	16.22
	1 RB low	2687.5	24.11	23.12	21.74	18.64	21.61	20.62	19.24	16.14
		2593	23.55	22.6	21.16	18.7	21.05	20.10	18.66	16.20
		2498.5	23.01	22.04	21	18.84	20.51	19.54	18.50	16.34
	50% RB mid	2687.5	23.03	22.01	21.05	19.1	20.53	19.51	18.55	16.60
		2593	22.54	21.46	20.49	19.02	20.04	18.96	17.99	16.52
		2498.5	22.03	21.11	20.02	18.68	19.53	18.61	17.52	16.18
	100% RB	2687.5	23.04	22.06	21.07	18.55	20.54	19.56	18.57	16.05
		2593	22.53	21.53	20.54	18.93	20.03	19.03	18.04	16.43
		2498.5	22.06	21.03	20.05	19.25	19.56	18.53	17.55	16.75
10MHz	1 RB high	2685	24.35	23.21	21.77	18.78	21.85	20.71	19.27	16.28
		2593	23.71	22.71	21.24	18.86	21.21	20.21	18.74	16.36
		2501	23.26	22.26	21.02	18.98	20.76	19.76	18.52	16.48
	1 RB low	2685	24.32	23.18	21.76	18.66	21.82	20.68	19.26	16.16
		2593	23.58	22.6	21.12	18.7	21.08	20.10	18.62	16.20
		2501	23.13	22.14	21	18.76	20.63	19.64	18.50	16.26
	50% RB mid	2685	23.21	22.13	21.11	19.02	20.71	19.63	18.61	16.52
		2593	22.65	21.59	20.59	18.94	20.15	19.09	18.09	16.44
		2501	22.2	21.11	20.14	18.74	19.70	18.61	17.64	16.24
	100% RB	2685	23.21	22.15	21.09	18.65	20.71	19.65	18.59	16.15
		2593	22.61	21.59	20.52	19.05	20.11	19.09	18.02	16.55
		2501	22.17	21.16	20.1	19.35	19.67	18.66	17.60	16.85
15MHz	1 RB high	2682.5	24.32	23.36	21.97	18.58	21.82	20.86	19.47	16.08
		2593	23.87	22.93	21.5	18.84	21.37	20.43	19.00	16.34
		2503.5	23.56	22.62	21.19	18.78	21.06	20.12	18.69	16.28
	1 RB low	2682.5	24.3	23.3	21.92	18.7	21.80	20.80	19.42	16.20
		2593	23.69	22.73	21.33	18.68	21.19	20.23	18.83	16.18
		2503.5	23.29	22.32	21.09	18.66	20.79	19.82	18.59	16.16
	50% RB mid	2682.5	23.24	22.24	21.25	19	20.74	19.74	18.75	16.50
		2593	22.8	21.76	20.77	18.92	20.30	19.26	18.27	16.42
		2503.5	22.42	21.36	20.37	18.96	19.92	18.86	17.87	16.46
	100% RB	2682.5	23.23	22.3	21.28	18.67	20.73	19.80	18.78	16.17
		2593	22.76	21.78	20.77	18.87	20.26	19.28	18.27	16.37
		2503.5	22.41	21.43	20.42	19.37	19.91	18.93	17.92	16.87
20MHz	1 RB high	2680	24.35	23.36	21.94	18.7	21.85	20.86	19.44	16.20
		2593	23.91	22.97	21.54	18.88	21.41	20.47	19.04	16.38

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		2506	23.7	22.73	21.29	18.8	21.20	20.23	18.79	16.30
	1 RB low	2680	24.22	23.23	21.82	18.58	21.72	20.73	19.32	16.08
		2593	23.67	22.72	21.29	18.72	21.17	20.22	18.79	16.22
		2506	23.28	22.35	21.02	18.76	20.78	19.85	18.52	16.26
	50% RB mid	2680	23.26	22.31	21.29	18.94	20.76	19.81	18.79	16.44
		2593	22.81	21.83	20.79	18.94	20.31	19.33	18.29	16.44
		2506	22.51	21.5	20.48	18.78	20.01	19.00	17.98	16.28
	100% RB	2680	23.24	22.31	21.29	18.69	20.74	19.81	18.79	16.19
		2593	22.77	21.82	20.78	18.93	20.27	19.32	18.28	16.43
		2506	22.48	21.51	20.48	19.19	19.98	19.01	17.98	16.69

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LTE Band 48-EIRP

Limits: ≤23dBm/10MHz

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Conducted Power (dBm/10MHz)	EIRP (dBm/10MHz)
5MHz	1 RB low	3552.5	QPSK	24.99	22.39
	1 RB high	3552.5	QPSK	25.05	22.45
	100% RB	3552.5	QPSK	23.68	21.08
	1 RB low	3552.5	16QAM	24.63	22.03
	1 RB high	3552.5	16QAM	24.15	21.55
	100% RB	3552.5	16QAM	22.73	20.13
	1 RB low	3552.5	64QAM	23.22	20.62
	1 RB high	3552.5	64QAM	23.16	20.56
	100% RB	3552.5	64QAM	21.69	19.09
	1 RB low	3552.5	256QAM	20.19	17.59
	1 RB high	3552.5	256QAM	20.02	17.42
	100% RB	3552.5	256QAM	19.66	17.06
	1 RB low	3625	QPSK	25.04	22.44
	1 RB high	3625	QPSK	24.53	21.93
	100% RB	3625	QPSK	23.86	21.26
	1 RB low	3625	16QAM	23.68	21.08
	1 RB high	3625	16QAM	23.66	21.06
	100% RB	3625	16QAM	22.53	19.93
	1 RB low	3625	64QAM	22.98	20.38
	1 RB high	3625	64QAM	23.37	20.77
	100% RB	3625	64QAM	21.66	19.06
	1 RB low	3625	256QAM	19.43	16.83
	1 RB high	3625	256QAM	20.58	17.98
	100% RB	3625	256QAM	19.72	17.12
	1 RB low	3697.5	QPSK	24.34	21.74
	1 RB high	3697.5	QPSK	24.40	21.80
	100% RB	3697.5	QPSK	23.07	20.47
	1 RB low	3697.5	16QAM	23.51	20.91
	1 RB high	3697.5	16QAM	23.56	20.96
	100% RB	3697.5	16QAM	21.93	19.33
	1 RB low	3697.5	64QAM	22.34	19.74
	1 RB high	3697.5	64QAM	22.62	20.02
	100% RB	3697.5	64QAM	20.94	18.34
	1 RB low	3697.5	256QAM	19.22	16.62
	1 RB high	3697.5	256QAM	19.31	16.71
	100% RB	3697.5	256QAM	18.88	16.28
10MHz	1 RB low	3555	QPSK	24.90	22.30
	1 RB high	3555	QPSK	24.90	22.30
	100% RB	3555	QPSK	22.94	20.34

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	1 RB low	3555	16QAM	24.01	21.41
	1 RB high	3555	16QAM	24.05	21.45
	100% RB	3555	16QAM	21.84	19.24
	1 RB low	3555	64QAM	23.06	20.46
	1 RB high	3555	64QAM	22.89	20.29
	100% RB	3555	64QAM	20.79	18.19
	1 RB low	3555	256QAM	19.93	17.33
	1 RB high	3555	256QAM	19.84	17.24
	100% RB	3555	256QAM	18.73	16.13
	1 RB low	3625	QPSK	24.36	21.76
	1 RB high	3625	QPSK	24.42	21.82
	100% RB	3625	QPSK	22.49	19.89
	1 RB low	3625	16QAM	23.55	20.95
	1 RB high	3625	16QAM	23.58	20.98
	100% RB	3625	16QAM	21.49	18.89
	1 RB low	3625	64QAM	22.33	19.73
	1 RB high	3625	64QAM	22.57	19.97
	100% RB	3625	64QAM	20.95	18.35
	1 RB low	3625	256QAM	19.69	17.09
	1 RB high	3625	256QAM	19.30	16.70
	100% RB	3625	256QAM	18.14	15.54
	1 RB low	3695	QPSK	24.31	21.71
	1 RB high	3695	QPSK	24.33	21.73
	100% RB	3695	QPSK	22.32	19.72
	1 RB low	3695	16QAM	23.57	20.97
	1 RB high	3695	16QAM	23.50	20.90
	100% RB	3695	16QAM	21.14	18.54
	1 RB low	3695	64QAM	22.68	20.08
	1 RB high	3695	64QAM	22.24	19.64
	100% RB	3695	64QAM	20.05	17.45
	1 RB low	3695	256QAM	19.22	16.62
	1 RB high	3695	256QAM	19.23	16.63
	100% RB	3695	256QAM	18.01	15.41
15MHz	1 RB low	3557.5	QPSK	25.09	22.49
	1 RB high	3557.5	QPSK	24.88	22.28
	100% RB	3557.5	QPSK	21.60	19.00
	1 RB low	3557.5	16QAM	23.87	21.27
	1 RB high	3557.5	16QAM	23.82	21.22
	100% RB	3557.5	16QAM	20.38	17.78
	1 RB low	3557.5	64QAM	23.16	20.56
	1 RB high	3557.5	64QAM	23.03	20.43
	100% RB	3557.5	64QAM	19.40	16.80
	1 RB low	3557.5	256QAM	19.77	17.17

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	1 RB high	3557.5	256QAM	19.84	17.24
	100% RB	3557.5	256QAM	17.32	14.72
	1 RB low	3625	QPSK	24.40	21.80
	1 RB high	3625	QPSK	24.37	21.77
	100% RB	3625	QPSK	21.05	18.45
	1 RB low	3625	16QAM	23.50	20.90
	1 RB high	3625	16QAM	23.52	20.92
	100% RB	3625	16QAM	19.74	17.14
	1 RB low	3625	64QAM	22.27	19.67
	1 RB high	3625	64QAM	22.22	19.62
	100% RB	3625	64QAM	18.71	16.11
	1 RB low	3625	256QAM	19.23	16.63
	1 RB high	3625	256QAM	19.19	16.59
	100% RB	3625	256QAM	16.68	14.08
	1 RB low	3692.5	QPSK	24.22	21.62
	1 RB high	3692.5	QPSK	24.35	21.75
	100% RB	3692.5	QPSK	21.01	18.41
	1 RB low	3692.5	16QAM	23.46	20.86
	1 RB high	3692.5	16QAM	23.54	20.94
	100% RB	3692.5	16QAM	19.68	17.08
	1 RB low	3692.5	64QAM	22.19	19.59
	1 RB high	3692.5	64QAM	22.43	19.83
	100% RB	3692.5	64QAM	18.65	16.05
	1 RB low	3692.5	256QAM	19.09	16.49
	1 RB high	3692.5	256QAM	19.20	16.60
	100% RB	3692.5	256QAM	16.61	14.01
20MHz	1 RB low	3560	QPSK	24.83	22.23
	1 RB high	3560	QPSK	24.86	22.26
	100% RB	3560	QPSK	20.50	17.90
	1 RB low	3560	16QAM	24.15	21.55
	1 RB high	3560	16QAM	24.14	21.54
	100% RB	3560	16QAM	19.37	16.77
	1 RB low	3560	64QAM	23.04	20.44
	1 RB high	3560	64QAM	22.91	20.31
	100% RB	3560	64QAM	18.28	15.68
	1 RB low	3560	256QAM	20.06	17.46
	1 RB high	3560	256QAM	19.97	17.37
	100% RB	3560	256QAM	16.20	13.60
	1 RB low	3625	QPSK	24.40	21.80
	1 RB high	3625	QPSK	24.37	21.77
	100% RB	3625	QPSK	19.98	17.38
	1 RB low	3625	16QAM	23.66	21.06
	1 RB high	3625	16QAM	23.63	21.03

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	100% RB	3625	16QAM	18.73	16.13
	1 RB low	3625	64QAM	22.43	19.83
	1 RB high	3625	64QAM	22.30	19.70
	100% RB	3625	64QAM	17.66	15.06
	1 RB low	3625	256QAM	19.43	16.83
	1 RB high	3625	256QAM	19.28	16.68
	100% RB	3625	256QAM	15.66	13.06
	1 RB low	3690	QPSK	24.22	21.62
	1 RB high	3690	QPSK	24.38	21.78
	100% RB	3690	QPSK	19.90	17.30
	1 RB low	3690	16QAM	23.52	20.92
	1 RB high	3690	16QAM	23.64	21.04
	100% RB	3690	16QAM	18.61	16.01
	1 RB low	3690	64QAM	22.19	19.59
	1 RB high	3690	64QAM	22.29	19.69
	100% RB	3690	64QAM	17.54	14.94
	1 RB low	3690	256QAM	19.16	16.56
	1 RB high	3690	256QAM	19.33	16.73
	100% RB	3690	256QAM	15.53	12.93

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LTE Band 66-EIRP

Limits: ≤30dBm(1W)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)				Radiated Power (dBm) GT = -0.2dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.51	22.77	21.71	19.34	23.31	22.57	21.51	19.14
		1745	23.52	22.89	21.75	19.3	23.32	22.69	21.55	19.10
		1710.7	23.86	22.95	22	18.96	23.66	22.75	21.80	18.76
	1 RB low	1779.3	23.58	22.85	21.76	19.52	23.38	22.65	21.56	19.32
		1745	23.56	22.8	21.84	19.38	23.36	22.60	21.64	19.18
		1710.7	23.75	22.96	22.03	19.46	23.55	22.76	21.83	19.26
	50% RB mid	1779.3	23.58	22.6	21.68	18.97	23.38	22.40	21.48	18.77
		1745	23.62	22.57	21.63	18.99	23.42	22.37	21.43	18.79
		1710.7	23.74	22.81	21.86	18.79	23.54	22.61	21.66	18.59
	100% RB	1779.3	22.61	21.75	20.66	18.81	22.41	21.55	20.46	18.61
		1745	22.55	21.71	20.68	18.85	22.35	21.51	20.48	18.65
		1710.7	22.87	21.94	20.8	18.95	22.67	21.74	20.60	18.75
3MHz	1 RB high	1778.5	23.61	22.73	21.78	19.34	23.41	22.53	21.58	19.14
		1745	23.58	22.82	21.78	19.28	23.38	22.62	21.58	19.08
		1711.5	23.58	22.9	21.85	19.32	23.38	22.70	21.65	19.12
	1 RB low	1778.5	23.47	22.81	21.76	19.28	23.27	22.61	21.56	19.08
		1745	23.68	22.78	21.84	19.2	23.48	22.58	21.64	19.00
		1711.5	23.7	23	22.03	19.28	23.50	22.80	21.83	19.08
	50% RB mid	1778.5	22.52	21.64	20.67	18.99	22.32	21.44	20.47	18.79
		1745	22.51	21.63	20.74	18.75	22.31	21.43	20.54	18.55
		1711.5	22.74	21.77	20.8	18.85	22.54	21.57	20.60	18.65
	100% RB	1778.5	22.51	21.61	20.72	18.91	22.31	21.41	20.52	18.71
		1745	22.5	21.66	20.71	18.77	22.30	21.46	20.51	18.57
		1711.5	22.72	21.83	20.78	18.93	22.52	21.63	20.58	18.73
5MHz	1 RB high	1777.5	23.56	22.75	21.81	19.34	23.36	22.55	21.61	19.14
		1745	23.56	22.85	21.73	19.18	23.36	22.65	21.53	18.98
		1712.5	23.58	22.8	21.8	19.18	23.38	22.60	21.60	18.98
	1 RB low	1777.5	23.57	22.77	21.74	19.18	23.37	22.57	21.54	18.98
		1745	23.64	22.78	21.7	19.12	23.44	22.58	21.50	18.92
		1712.5	23.78	23.01	21.97	19.3	23.58	22.81	21.77	19.10
	50% RB mid	1777.5	22.54	21.59	20.63	19.01	22.34	21.39	20.43	18.81
		1745	22.55	21.53	20.71	18.67	22.35	21.33	20.51	18.47
		1712.5	22.74	21.7	20.78	18.75	22.54	21.50	20.58	18.55
	100% RB	1777.5	22.59	21.56	20.64	18.73	22.39	21.36	20.44	18.53
		1745	22.57	21.55	20.72	18.69	22.37	21.35	20.52	18.49
		1712.5	22.72	21.72	20.74	18.89	22.52	21.52	20.54	18.69
10MHz	1 RB high	1775	23.54	22.71	21.68	19.38	23.34	22.51	21.48	19.18
		1745	23.49	22.77	21.69	19.22	23.29	22.57	21.49	19.02

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		1715	23.69	22.87	21.92	19.28	23.49	22.67	21.72	19.08
	1 RB low	1775	23.49	22.77	21.66	19.26	23.29	22.57	21.46	19.06
		1745	23.56	22.79	21.68	19.14	23.36	22.59	21.48	18.94
		1715	23.83	22.85	21.86	19.04	23.63	22.65	21.66	18.84
	50% RB mid	1775	22.47	21.48	20.59	18.83	22.27	21.28	20.39	18.63
		1745	22.51	21.48	20.62	18.93	22.31	21.28	20.42	18.73
		1715	22.66	21.61	20.68	18.73	22.46	21.41	20.48	18.53
	100% RB	1775	22.52	21.5	20.58	18.65	22.32	21.30	20.38	18.45
		1745	22.48	21.53	20.61	19.03	22.28	21.33	20.41	18.83
		1715	22.64	21.66	20.68	18.87	22.44	21.46	20.48	18.67
15MHz	1 RB high	1772.5	23.82	22.86	21.76	19.44	23.62	22.66	21.56	19.24
		1745	23.64	22.92	21.82	19.12	23.44	22.72	21.62	18.92
		1717.5	23.82	23	21.95	19.14	23.62	22.80	21.75	18.94
	1 RB low	1772.5	23.55	22.82	21.95	19.28	23.35	22.62	21.75	19.08
		1745	23.79	22.85	21.75	19.4	23.59	22.65	21.55	19.20
		1717.5	23.86	23.11	21.91	19.22	23.66	22.91	21.71	19.02
	50% RB mid	1772.5	22.57	21.47	20.65	18.81	22.37	21.27	20.45	18.61
		1745	22.59	21.55	20.67	18.87	22.39	21.35	20.47	18.67
		1717.5	22.72	21.7	20.78	18.99	22.52	21.50	20.58	18.79
	100% RB	1772.5	22.58	21.56	20.63	18.93	22.38	21.36	20.43	18.73
		1745	22.64	21.61	20.66	18.91	22.44	21.41	20.46	18.71
		1717.5	22.78	21.75	20.75	18.73	22.58	21.55	20.55	18.53
20MHz	1 RB high	1770	23.61	22.88	21.85	19.44	23.41	22.68	21.65	19.24
		1745	23.7	23.05	21.92	19.14	23.50	22.85	21.72	18.94
		1720	23.71	22.92	21.9	19.18	23.51	22.72	21.70	18.98
	1 RB low	1770	23.5	22.76	21.79	19.36	23.30	22.56	21.59	19.16
		1745	23.79	22.89	21.77	19.26	23.59	22.69	21.57	19.06
		1720	23.89	23.14	21.94	19.22	23.69	22.94	21.74	19.02
	50% RB mid	1770	22.58	21.59	20.69	18.91	22.38	21.39	20.49	18.71
		1745	22.61	21.61	20.73	18.81	22.41	21.41	20.53	18.61
		1720	22.75	21.74	20.75	18.87	22.55	21.54	20.55	18.67
	100% RB	1770	22.53	21.56	20.64	18.77	22.33	21.36	20.44	18.57
		1745	22.61	21.61	20.7	18.83	22.41	21.41	20.50	18.63
		1720	22.81	21.81	20.79	18.85	22.61	21.61	20.59	18.65

Note: Expanded measurement uncertainty is U = 0.578 dB, k = 2.

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A.2 Emission Limit

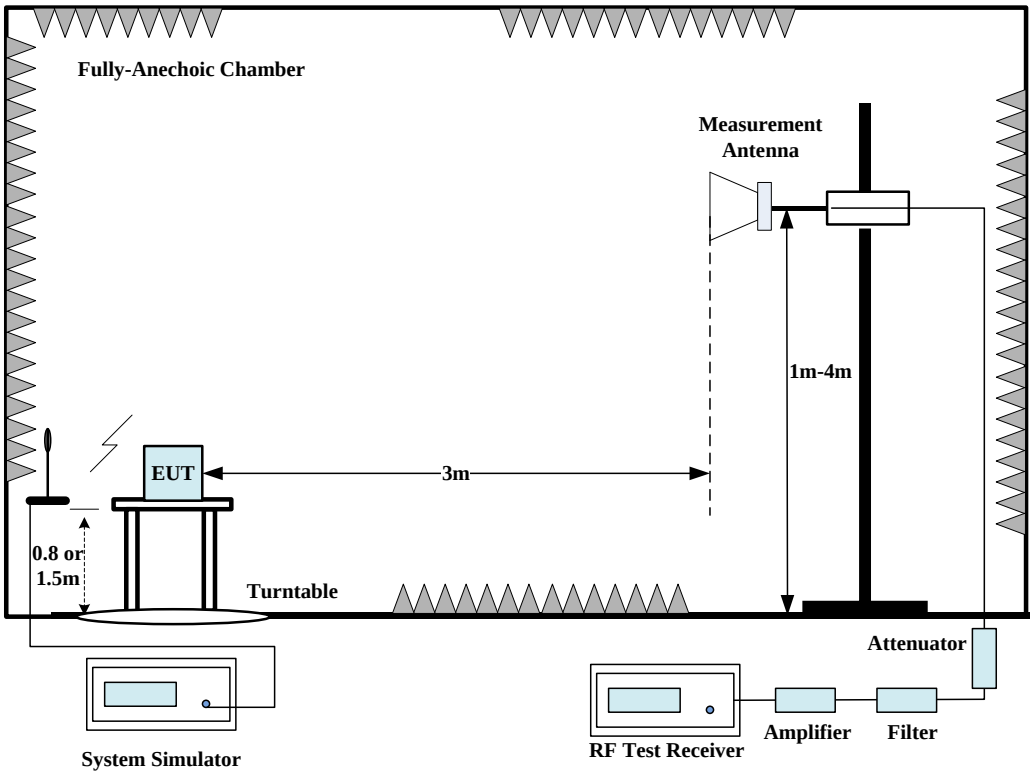
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



1. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
2. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.

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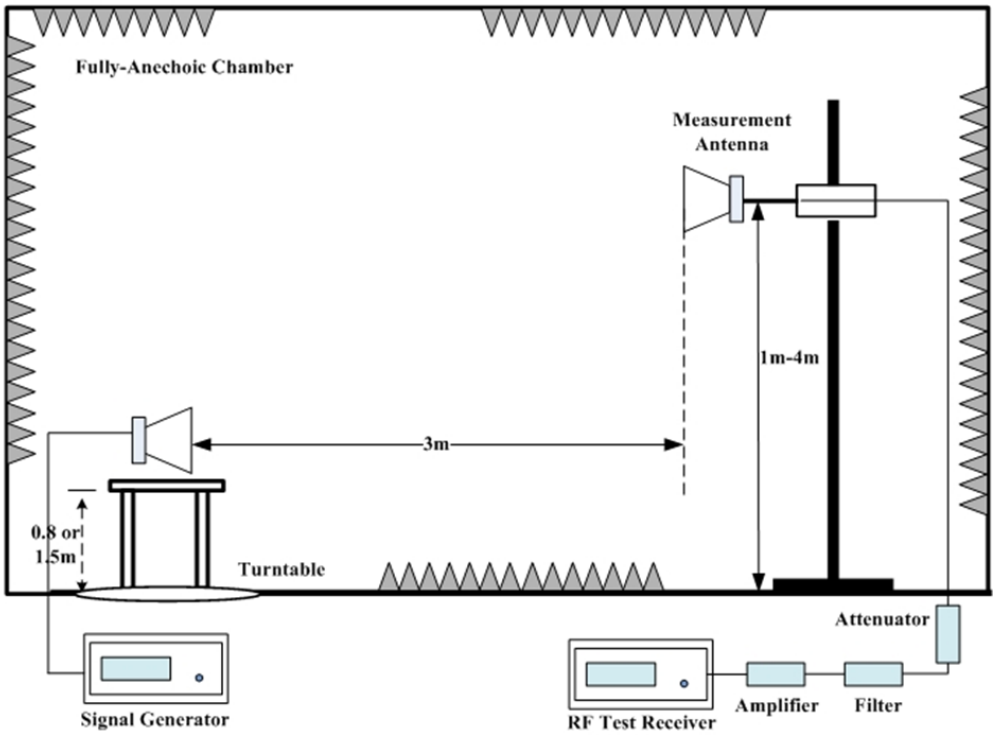

In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

3. The Path loss (P_{pl}) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain (G_a) were recorded after test.A amplifier was connected in for the test. The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
4. The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

A.2.2 Measurement Limit

FDD Band 25: Part 24.238 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FDD Band 12/13/71: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in

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watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

LTE Band 26(814MHz~824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the ''outer'' channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FDD Band 26(824MHz~849MHz): Part 22.917 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FDD Band 7/TDD Band 41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FDD Band 66: Part 27.53(h) specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

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Note 1: All CA UL combination bands have been tested, only the worst cases are reported.
Note 2: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
LTE Bands	Low	9kHz-26GHz	Pass
	Middle	9kHz-26GHz	Pass
	High	9kHz-26GHz	Pass

Note: The Band 48 only has conducted emission limits according to Part 96.41. In this circumstances, the radiated emission tests are not applicable for Band 48.

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~20 GHz	1 MHz	3 MHz

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A.2.6 Measurement Result

LTE Band 7, 5MHz, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5005.00	-51.08	5.15	10.51	-45.72	-25.00	20.72	H
7508.00	-41.60	7.70	12.36	-36.94	-25.00	11.94	H
10010.50	-42.05	9.35	13.38	-38.02	-25.00	13.02	H
12513.50	-34.70	12.37	13.60	-33.47	-25.00	8.47	H
15016.00	-42.25	14.74	14.10	-42.89	-25.00	17.89	H
17518.50	-35.26	19.70	14.42	-40.54	-25.00	15.54	H

LTE Band 7, 5MHz, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5070.50	-52.68	5.30	10.53	-47.45	-25.00	22.45	H
7605.00	-45.55	7.58	12.30	-40.83	-25.00	15.83	H
10141.00	-42.48	9.74	13.24	-38.98	-25.00	13.98	H
12676.00	-39.48	11.70	13.52	-37.66	-25.00	12.66	H
15218.00	-45.65	15.69	13.98	-47.36	-25.00	22.36	H
17747.00	-35.36	19.56	14.65	-40.27	-25.00	15.27	H

LTE Band 7, 5MHz, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5135.00	-51.89	5.55	10.58	-46.86	-25.00	21.86	H
7702.50	-45.14	6.72	12.40	-39.46	-25.00	14.46	H
10271.00	-40.14	10.75	13.30	-37.59	-25.00	12.59	H
12838.50	-36.42	13.04	13.50	-35.96	-25.00	10.96	H
15406.50	-45.94	14.90	13.79	-47.05	-25.00	22.05	H
17973.50	-35.58	19.99	14.80	-40.77	-25.00	15.77	H

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LTE Band 12, 1.4MHz, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2099.50	-49.85	3.52	4.90	2.15	-50.62	-13.00	37.62	H
2799.50	-44.40	5.27	7.20	2.15	-44.62	-13.00	31.62	V
3499.00	-44.65	2.98	8.20	2.15	-41.58	-13.00	28.58	H
4198.00	-54.82	4.16	9.30	2.15	-51.83	-13.00	38.83	H
6298.00	-56.85	6.07	11.20	2.15	-53.87	-13.00	40.87	V
7009.50	-53.43	7.66	11.66	2.15	-51.58	-13.00	38.58	V

LTE Band 12, 1.4MHz, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2135.50	-52.66	3.69	5.24	2.15	-53.26	-13.00	40.26	V
2830.50	-44.27	5.03	7.28	2.15	-44.17	-13.00	31.17	V
3537.50	-43.38	3.28	8.29	2.15	-40.52	-13.00	27.52	H
4245.50	-52.13	4.94	9.40	2.15	-49.82	-13.00	36.82	V
5669.00	-57.15	5.71	11.07	2.15	-53.94	-13.00	40.94	V
7078.50	-53.57	6.91	11.70	2.15	-50.93	-13.00	37.93	V

LTE Band 12, 1.4MHz, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.50	-54.28	1.89	5.17	2.15	-53.15	-13.00	40.15	H
2146.00	-49.70	3.71	5.28	2.15	-50.28	-13.00	37.28	V
2862.00	-45.43	5.51	7.11	2.15	-45.98	-13.00	32.98	V
3577.00	-47.41	3.07	8.38	2.15	-44.25	-13.00	31.25	V
4292.50	-49.67	4.65	9.40	2.15	-47.07	-13.00	34.07	V
7140.00	-54.64	6.65	11.70	2.15	-51.74	-13.00	38.74	H

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LTE Band 13, 5MHz, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-54.18	3.47	5.39	0.00	-54.41	-40.00	14.41	H
2338.76	-45.25	4.44	5.62	2.15	-46.22	-13.00	33.22	H
3117.50	-39.29	5.38	7.28	2.15	-39.54	-13.00	26.54	V
3897.50	-45.40	6.11	8.76	2.15	-44.90	-13.00	31.90	V
4680.00	-56.61	6.49	9.58	2.15	-55.67	-13.00	42.67	H
5455.00	-56.50	6.89	10.54	2.15	-55.00	-13.00	42.00	H

LTE Band 13, 5MHz, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-57.26	3.47	5.39	0.00	-57.49	-40.00	17.49	H
2346.20	-43.08	4.45	5.64	2.15	-44.04	-13.00	31.04	V
3127.50	-38.77	5.40	7.31	2.15	-39.01	-13.00	26.01	V
3910.00	-47.02	6.12	8.77	2.15	-46.52	-13.00	33.52	V
4695.00	-57.33	6.50	9.60	2.15	-56.38	-13.00	43.38	H
5477.50	-55.79	6.97	10.57	2.15	-54.34	-13.00	41.34	V

LTE Band 13, 5MHz, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-55.14	3.47	5.39	0.00	-55.37	-40.00	15.37	H
2353.65	-44.92	4.46	5.66	2.15	-45.87	-13.00	32.87	V
3137.50	-37.80	5.39	7.33	2.15	-38.01	-13.00	25.01	V
3922.50	-48.70	6.12	8.79	2.15	-48.18	-13.00	35.18	V
4707.50	-56.57	6.51	9.61	2.15	-55.62	-13.00	42.62	H
5500.00	-55.87	7.06	10.60	2.15	-54.48	-13.00	41.48	H

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LTE Band 25, 1.4MHz, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3701.50	-45.01	3.47	8.35	-40.13	-13.00	27.13	H
5552.00	-49.60	5.32	11.00	-43.92	-13.00	30.92	V
7403.00	-43.22	8.08	12.15	-39.15	-13.00	26.15	V
9254.00	-41.62	8.85	13.70	-36.77	-13.00	23.77	V
11108.50	-51.18	9.78	13.50	-47.46	-13.00	34.46	H
12960.00	-49.52	12.51	13.68	-48.35	-13.00	35.35	V

LTE Band 25, 1.4MHz, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3765.00	-47.37	3.79	8.63	-42.53	-13.00	29.53	H
5647.50	-49.49	5.60	11.00	-44.09	-13.00	31.09	V
7530.50	-43.45	7.72	12.38	-38.79	-13.00	25.79	V
9413.00	-41.87	9.06	13.60	-37.33	-13.00	24.33	V
11295.50	-49.17	10.61	13.60	-46.18	-13.00	33.18	H
13177.50	-46.98	13.15	14.23	-45.90	-13.00	32.90	H

LTE Band 25, 1.4MHz, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3828.50	-48.84	3.92	8.62	-44.14	-13.00	31.14	H
5743.50	-45.71	5.85	10.91	-40.65	-13.00	27.65	V
7657.50	-40.04	6.90	12.36	-34.58	-13.00	21.58	V
9571.50	-42.92	8.64	13.44	-38.12	-13.00	25.12	V
11487.00	-49.20	12.28	13.44	-48.04	-13.00	35.04	H
13391.00	-48.09	12.43	14.47	-46.05	-13.00	33.05	V

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LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.50	-49.27	2.39	6.28	2.15	-47.53	-13.00	34.53	H
2444.50	-43.26	4.55	5.91	2.15	-44.05	-13.00	31.05	H
3259.00	-40.43	2.98	7.70	2.15	-37.86	-13.00	24.86	V
4074.50	-48.69	4.34	9.13	2.15	-46.05	-13.00	33.05	V
7346.00	-52.39	7.62	12.10	2.15	-50.06	-13.00	37.06	H
8146.50	-52.04	8.19	12.70	2.15	-49.68	-13.00	36.68	V

LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.50	-48.74	2.40	6.33	2.15	-46.96	-13.00	33.96	H
2457.50	-45.73	4.42	5.84	2.15	-46.46	-13.00	33.46	H
3276.00	-42.14	3.06	7.70	2.15	-39.65	-13.00	26.65	V
4095.50	-49.05	3.93	9.10	2.15	-46.03	-13.00	33.03	V
7377.50	-52.88	7.39	12.10	2.15	-50.32	-13.00	37.32	V
8178.50	-54.39	7.23	12.70	2.15	-51.07	-13.00	38.07	H

LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1647.00	-45.84	2.62	6.38	2.15	-44.23	-13.00	31.23	H
2470.00	-47.99	4.32	5.83	2.15	-48.63	-13.00	35.63	V
3293.50	-43.48	3.61	7.70	2.15	-41.54	-13.00	28.54	V
4117.00	-52.91	4.06	9.30	2.15	-49.82	-13.00	36.82	V
7412.50	-51.46	8.03	12.16	2.15	-49.48	-13.00	36.48	H
8244.00	-53.68	7.59	12.79	2.15	-50.63	-13.00	37.63	H

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LTE Band 26(824MHz-849MHz), 1.4MHz, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1650.00	-45.48	2.59	6.40	2.15	-43.82	-13.00	30.82	H
2474.50	-48.55	4.33	5.83	2.15	-49.20	-13.00	36.20	H
3299.00	-42.92	3.56	7.70	2.15	-40.93	-13.00	27.93	V
4123.50	-51.19	4.72	9.32	2.15	-48.74	-13.00	35.74	V
7412.00	-51.52	8.03	12.16	2.15	-49.54	-13.00	36.54	H
8235.50	-53.98	7.59	12.79	2.15	-50.93	-13.00	37.93	H

LTE Band 26(824MHz-849MHz), 1.4MHz, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-44.39	2.78	6.33	2.15	-42.99	-13.00	29.99	H
2510.00	-46.04	4.42	5.80	2.15	-46.81	-13.00	33.81	H
3346.00	-41.57	3.46	7.89	2.15	-39.29	-13.00	26.29	H
4183.00	-49.51	4.07	9.32	2.15	-46.41	-13.00	33.41	V
7523.00	-52.14	7.71	12.37	2.15	-49.63	-13.00	36.63	H
8377.50	-52.75	8.15	13.00	2.15	-50.05	-13.00	37.05	H

LTE Band 26(824MHz-849MHz), 1.4MHz, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1697.00	-45.75	2.92	6.30	2.15	-44.52	-13.00	31.52	H
2545.50	-46.40	4.61	5.80	2.15	-47.36	-13.00	34.36	H
3393.50	-45.24	3.53	8.18	2.15	-42.74	-13.00	29.74	V
4241.00	-52.20	4.44	9.39	2.15	-49.40	-13.00	36.40	V
7640.50	-53.58	6.79	12.30	2.15	-50.22	-13.00	37.22	H
8472.00	-52.59	8.03	13.17	2.15	-49.60	-13.00	36.60	H

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LTE Band 41, QPSK, Low Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4997.50	-50.41	5.17	10.40	-45.18	-25.00	20.18	H
7496.50	-44.29	7.70	12.30	-39.69	-25.00	14.69	H
9995.00	-39.81	9.36	13.40	-35.77	-25.00	10.77	H
12493.00	-36.06	12.34	13.59	-34.81	-25.00	9.81	H
14992.00	-42.46	14.77	14.10	-43.13	-25.00	18.13	H
17491.00	-32.50	19.74	14.39	-37.85	-25.00	12.85	H

LTE Band 41, QPSK, Middle Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5186.00	-51.72	5.75	10.51	-46.96	-25.00	21.96	H
7779.50	-46.06	7.37	12.40	-41.03	-25.00	16.03	H
10372.50	-40.45	10.73	13.30	-37.88	-25.00	12.88	H
12965.50	-40.74	12.53	13.70	-39.57	-25.00	14.57	H
15559.00	-44.44	16.71	13.60	-47.55	-25.00	22.55	H
17972.00	-37.02	20.00	14.80	-42.22	-25.00	17.22	V

LTE Band 41, QPSK, High Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5375.00	-50.53	5.75	10.65	-45.63	-25.00	20.63	H
8063.00	-39.28	7.86	12.76	-34.38	-25.00	9.38	H
10751.00	-29.92	9.83	13.25	-26.50	-25.00	1.50	H
13438.50	-36.76	12.56	14.54	-34.78	-25.00	9.78	V
16126.00	-33.65	17.04	13.45	-37.24	-25.00	12.24	H
17986.00	-36.37	19.96	14.80	-41.53	-25.00	16.53	H

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LTE Band 66, 1.4MHz QPSK, Low Channel

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.50	-50.00	3.24	8.27	-44.97	-13.00	31.97	H
5132.00	-57.98	5.56	10.58	-52.96	-13.00	39.96	H
6843.00	-51.37	6.54	11.51	-46.40	-13.00	33.40	V
8554.00	-50.56	8.52	13.20	-45.88	-13.00	32.88	V
10265.00	-53.03	10.80	13.30	-50.53	-13.00	37.53	H
13686.00	-55.43	13.00	14.70	-53.73	-13.00	40.73	H

LTE Band 66, 1.4MHz, QPSK, Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3489.50	-52.13	2.85	8.21	-46.77	-13.00	33.77	H
5235.00	-58.10	4.70	10.42	-52.38	-13.00	39.38	V
6980.00	-52.25	8.06	11.60	-48.71	-13.00	35.71	V
8725.50	-49.23	8.45	13.32	-44.36	-13.00	31.36	V
10471.00	-55.32	10.36	13.23	-52.45	-13.00	39.45	H
17444.50	-47.02	19.26	14.34	-51.94	-13.00	38.94	H

LTE Band 66, 1.4MHz, QPSK, High Channel

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.50	-50.17	2.98	8.36	-44.79	-13.00	31.79	H
5338.00	-53.30	6.18	10.51	-48.97	-13.00	35.97	V
7117.50	-49.64	6.56	11.70	-44.50	-13.00	31.50	V
8897.00	-46.53	8.04	13.40	-41.17	-13.00	28.17	V
10676.50	-55.12	10.04	13.22	-51.94	-13.00	38.94	H
17804.00	-48.17	19.55	14.70	-53.02	-13.00	40.02	H

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LTE CA BAND 7C, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5015.16	-52.84	6.58	9.92	-49.50	-25.00	24.50	H
7523.44	-50.13	8.30	12.22	-46.21	-25.00	21.21	V
10030.78	-48.69	9.27	12.91	-45.05	-25.00	20.05	V
12538.13	-43.74	10.29	13.22	-40.81	-25.00	15.81	H
15067.97	-47.22	11.31	13.96	-44.57	-25.00	19.57	V
17541.56	-41.18	12.88	14.96	-39.10	-25.00	14.10	V

LTE CA BAND 7C, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5055.47	-54.09	6.65	9.98	-50.76	-25.00	25.76	V
7597.97	-54.20	7.98	12.28	-49.90	-25.00	24.90	V
10125.94	-50.25	9.42	12.95	-46.72	-25.00	21.72	H
12653.44	-44.34	10.38	13.29	-41.43	-25.00	16.43	H
15160.31	-47.91	11.38	13.90	-45.39	-25.00	20.39	H
17692.03	-42.39	12.26	15.17	-39.48	-25.00	14.48	V

LTE CA BAND 7C, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5095.31	-54.63	6.76	10.03	-51.36	-25.00	26.36	V
7672.50	-53.35	8.30	12.34	-49.31	-25.00	24.31	H
10205.63	-48.80	9.32	12.98	-45.14	-25.00	20.14	H
12737.81	-45.43	10.48	13.34	-42.57	-25.00	17.57	H
15313.59	-47.86	11.29	13.81	-45.34	-25.00	20.34	V
17813.91	-42.09	12.75	15.34	-39.50	-25.00	14.50	H

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LTE CA 2A-7A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5005.31	-48.10	6.59	9.91	-44.78	-13.00	31.78	H
5557.50	-45.75	7.19	10.59	-42.35	-13.00	29.35	V
7410.47	-43.91	8.15	12.09	-39.97	-13.00	26.97	V
9263.44	-37.95	9.07	13.26	-33.76	-13.00	20.76	H
10010.63	-41.15	9.21	12.90	-37.46	-13.00	24.46	V
12513.75	-38.94	10.21	13.21	-35.94	-13.00	22.94	H

LTE CA 2A-7A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.31	-49.31	6.26	8.56	-47.01	-13.00	34.01	V
5640.00	-49.08	7.27	10.57	-45.78	-13.00	32.78	H
7520.63	-44.08	8.31	12.22	-40.17	-13.00	27.17	H
9400.78	-46.27	9.04	13.34	-41.97	-13.00	28.97	H
10140.94	-45.68	9.40	12.96	-42.12	-13.00	29.12	V
12675.94	-38.61	10.34	13.31	-35.64	-13.00	22.64	V

LTE CA 2A-7A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3815.16	-49.31	6.09	8.64	-46.76	-13.00	33.76	V
5723.44	-46.85	7.30	10.56	-43.59	-13.00	30.59	V
7630.78	-43.72	8.11	12.30	-39.53	-13.00	26.53	H
9537.66	-42.59	9.41	13.36	-38.64	-13.00	25.64	V
10270.78	-39.80	9.54	13.01	-36.33	-13.00	23.33	V
12838.59	-41.74	10.67	13.40	-39.01	-13.00	26.01	H

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LTE CA 4A-7A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3425.16	-59.32	5.38	8.02	-56.68	-13.00	43.68	H
5005.31	-54.94	6.59	9.91	-51.62	-13.00	38.62	V
6850.31	-55.50	7.82	11.42	-51.90	-13.00	38.90	V
7507.97	-54.49	8.36	12.21	-50.64	-13.00	37.64	H
10010.63	-54.04	9.21	12.90	-50.35	-13.00	37.35	V
12513.75	-46.90	10.21	13.21	-43.90	-13.00	30.90	H

LTE CA 4A-7A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3465.00	-57.87	5.46	8.12	-55.21	-13.00	42.21	V
5197.97	-56.43	6.96	10.18	-53.21	-13.00	40.21	V
6930.47	-56.14	7.76	11.52	-52.38	-13.00	39.38	H
8663.44	-53.08	8.41	13.03	-48.46	-13.00	35.46	V
10140.47	-53.36	9.40	12.96	-49.80	-13.00	36.80	H
12676.41	-51.47	10.34	13.31	-48.50	-13.00	35.50	V

LTE CA 4A-7A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3505.31	-58.13	5.53	8.21	-55.45	-13.00	42.45	V
5257.97	-56.32	7.00	10.26	-53.06	-13.00	40.06	V
7010.63	-56.41	8.28	11.61	-53.08	-13.00	40.08	V
8763.28	-54.30	8.55	13.05	-49.80	-13.00	36.80	H
10270.78	-54.83	9.54	13.01	-51.36	-13.00	38.36	V
12838.59	-53.13	10.67	13.40	-50.40	-13.00	37.40	H

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LTE CA 5A-7A, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3299.06	-55.71	5.29	10.40	2.15	-52.75	-13.00	39.75
4124.06	-53.34	6.04	10.40	2.15	-51.13	-13.00	38.13
5009.53	-48.69	6.59	11.32	2.15	-46.11	-13.00	33.11
7515.47	-41.12	8.33	10.30	2.15	-41.30	-13.00	28.30
10020.47	-45.40	9.24	11.92	2.15	-44.87	-13.00	31.87
12525.00	-36.78	10.25	13.30	2.15	-35.88	-13.00	22.88

LTE CA BAND 5A-7A, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3345.47	-52.04	5.31	10.49	2.15	-49.01	-13.00	36.01
4182.66	-53.77	6.17	10.47	2.15	-51.62	-13.00	38.62
5069.53	-50.99	6.69	11.44	2.15	-48.39	-13.00	35.39
7605.00	-46.53	8.00	10.41	2.15	-46.27	-13.00	33.27
10140.47	-43.54	9.40	12.00	2.15	-43.09	-13.00	30.09
12675.47	-37.04	10.34	13.15	2.15	-36.38	-13.00	23.38

LTE CA BAND 5A-7A, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3392.81	-52.59	5.36	10.50	2.15	-49.60	-13.00	36.60
4241.72	-53.67	6.25	10.58	2.15	-51.49	-13.00	38.49
5130.00	-52.28	6.85	11.56	2.15	-49.72	-13.00	36.72
7695.00	-45.45	8.40	10.68	2.15	-45.32	-13.00	32.32
10260.47	-39.71	9.51	12.00	2.15	-39.37	-13.00	26.37
12825.47	-38.11	10.70	12.87	2.15	-38.09	-13.00	25.09

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LTE CA BAND 41C, Low Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4998.75	-53.20	6.61	9.90	-49.91	-25.00	24.91	H
7509.84	-52.37	8.35	12.21	-48.51	-25.00	23.51	V
10009.69	-46.77	9.21	12.90	-43.08	-25.00	18.08	V
12520.31	-45.96	10.23	13.21	-42.98	-25.00	17.98	V
14994.84	-46.83	11.21	14.00	-44.04	-25.00	19.04	H
17520.47	-41.61	12.80	14.93	-39.48	-25.00	14.48	H

LTE CA BAND 41C, Middle Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5179.69	-57.12	6.93	10.15	-53.90	-25.00	28.90	V
7763.91	-53.85	8.34	12.41	-49.78	-25.00	24.78	H
10358.91	-48.80	9.74	13.04	-45.50	-25.00	20.50	H
12941.72	-48.97	10.49	13.47	-45.99	-25.00	20.99	V
15520.31	-47.11	11.52	13.70	-44.93	-25.00	19.93	H
16780.31	-41.97	12.04	13.71	-40.30	-25.00	15.30	V

LTE CA BAND 41C, High Channel, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5336.72	-47.01	6.96	10.37	-43.60	-25.00	18.60	V
8005.31	-47.66	8.32	12.60	-43.38	-25.00	18.38	V
10685.63	-42.86	9.30	13.14	-39.02	-25.00	14.02	H
13377.66	-46.39	10.57	14.03	-42.93	-25.00	17.93	V
16039.22	-46.01	11.83	13.69	-44.15	-25.00	19.15	V
17325.00	-41.88	12.40	14.52	-39.76	-25.00	14.76	H

Note: Peak EIRP (dBm) = PMea(dBm) - Path Loss(dB) + Antenna Gain(dBi)

Note: Expanded measurement uncertainty is U = 5.76 dB, k = 2.

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A.3 Frequency Stability

A.3.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30℃.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10℃ increments from -30℃ to +50℃. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50℃.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 ℃ decrements from +50℃ to -30℃. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5℃ during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

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A.3.2 Measurement results

LTE Band 7, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2500.609	2569.423	-1.16	0.0005
50				0.47	0.0002
40				0.72	0.0003
30				2.76	0.0011
10				6.12	0.0024
0				0.79	0.0003
-10				1.49	0.0006
-20				34.46	0.0136
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.609	2569.423	-0.67	0.0003
4.45				26.48	0.0104

LTE Band 12, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	699.481	715.519	-0.40	0.0006
50				-2.30	0.0033
40				-2.19	0.0031
30				-1.23	0.0017
10				-2.13	0.0030
0				-1.72	0.0024
-10				-0.51	0.0007
-20				-1.57	0.0022
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.481	715.519	0.44	0.0006
4.45				-0.53	0.0007

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LTE Band 13, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	777.465	786.535	2.02	0.0026
50				1.87	0.0024
40				-1.27	0.0016
30				-1.62	0.0021
10				-1.46	0.0019
0				-1.90	0.0024
-10				-2.02	0.0026
-20				-0.80	0.0010
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.465	786.535	0.07	0.0001
4.45				0.89	0.0011

LTE Band 25, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	1850.801	1914.199	-25.03	0.0133
50				-9.70	0.0052
40				-25.85	0.0137
30				-28.24	0.0150
10				-26.25	0.0139
0				-28.20	0.0150
-10				-23.33	0.0124
-20				-11.10	0.0059
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.801	1914.199	-22.82	0.0121
4.45				-25.68	0.0136

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LTE Band 26(814MHz~824MHz), 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	814.385	823.615	1.37	0.0017
50				1.86	0.0023
40				1.49	0.0018
30				3.53	0.0043
10				1.10	0.0013
0				4.35	0.0053
-10				1.87	0.0023
-20				0.74	0.0009
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.385	823.615	1.06	0.0013
4.45				1.29	0.0016

LTE Band 26(824MHz~849MHz), 15MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	824.553	848.495	0.73	0.0009
50				0.03	0.0000
40				0.13	0.0002
30				-0.34	0.0004
10				-1.07	0.0013
0				-1.07	0.0013
-10				1.13	0.0014
-20				0.53	0.0006
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.553	848.495	0.23	0.0003
4.45				1.96	0.0023

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LTE Band 41, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2496.449	2689.455		
50				3.83	0.0015
40				1.02	0.0004
30				1.54	0.0006
10				1.12	0.0004
0				2.52	0.0010
-10				-0.26	0.0001
-20				1.92	0.0007
-30				-0.77	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.449	2689.455	0.77	0.0003
4.45				2.90	0.0011

LTE Band 48, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	3550.801	3699.231		
50				8.15	0.0022
40				10.16	0.0028
30				7.34	0.0020
10				7.88	0.0022
0				7.17	0.0020
-10				9.46	0.0026
-20				11.87	0.0033
-30				7.70	0.0021

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.801	3699.231	0.92	0.0003
4.45				4.59	0.0013

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LTE Band 66, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	1710.833	1779.231	-3.02	0.0017
50				17.11	0.0098
40				0.14	0.0001
30				11.67	0.0067
10				-2.15	0.0012
0				-1.89	0.0011
-10				-0.43	0.0002
-20				-1.86	0.0011
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.833	1779.231	-1.97	0.0011
4.45				0.24	0.0001

LTE CA band 7C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(℃)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2500.520	2569.480	-1.06	0.0004
50				0.36	0.0001
40				3.25	0.0013
30				6.97	0.0027
10				4.71	0.0019
0				3.36	0.0013
-10				5.55	0.0022
-20				6.37	0.0025
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.520	2569.480	10.43	0.0041
4.45				11.00	0.0043

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LTE CA band 41C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(℃)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2496.880	2689.080	1.67	0.0006
50				0.21	0.0001
40				2.25	0.0009
30				3.02	0.0012
10				7.41	0.0029
0				3.69	0.0014
-10				1.63	0.0006
-20				4.22	0.0016
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.880	2689.080	2.25	0.0009
4.45				1.83	0.0007

Note: Expanded measurement uncertainty is U = 0.01 PPM, *k* = 2.

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A.4 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.
The measurement method is from ANSI C63.26:
a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
d) Set the detection mode to peak, and the trace mode to max-hold.

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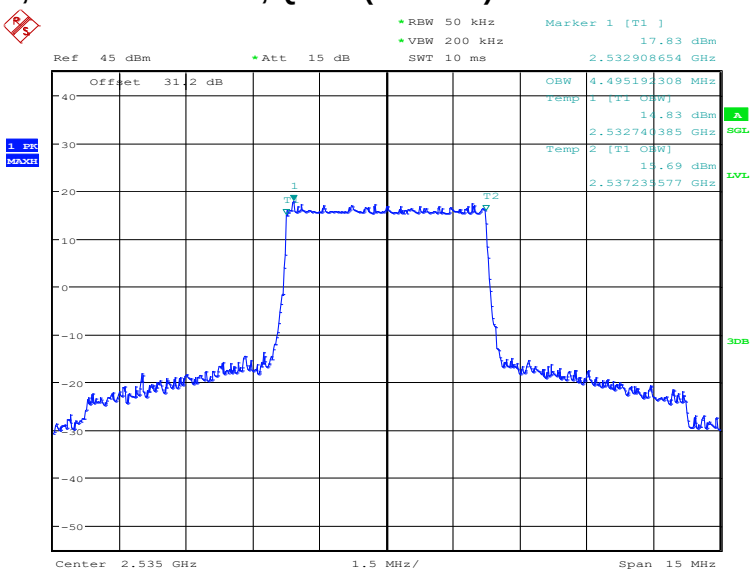
LTE band 7, 5MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4495.19

LTE band 7, 5MHz Bandwidth, QPSK (99% BW)



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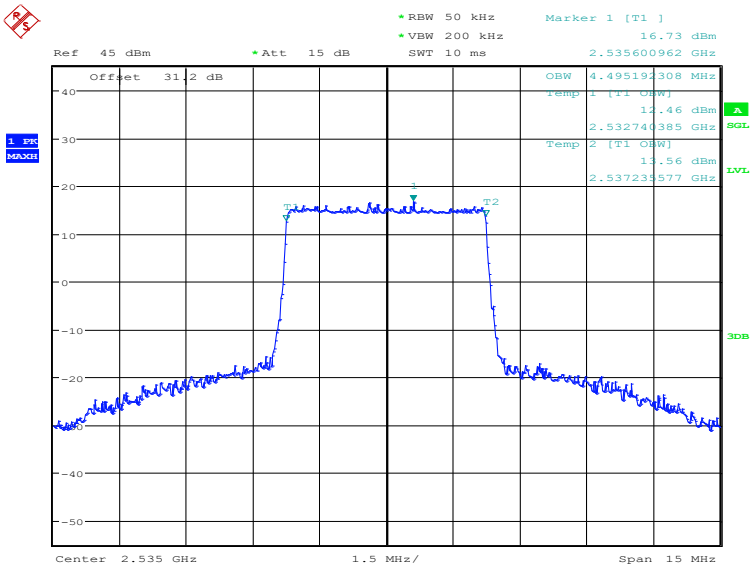
LTE band 7, 5MHz Bandwidth, 16QAM (99% BW)



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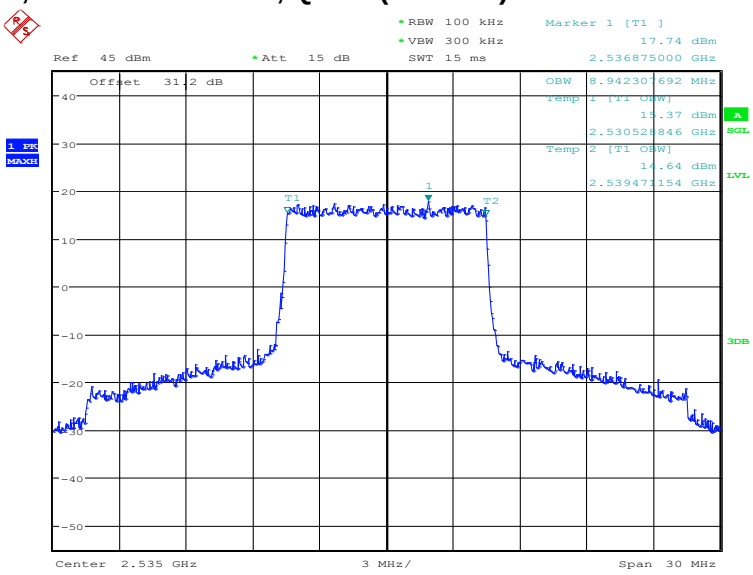
LTE band 7, 10MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8942.31	8990.38

LTE band 7, 10MHz Bandwidth, QPSK (99% BW)



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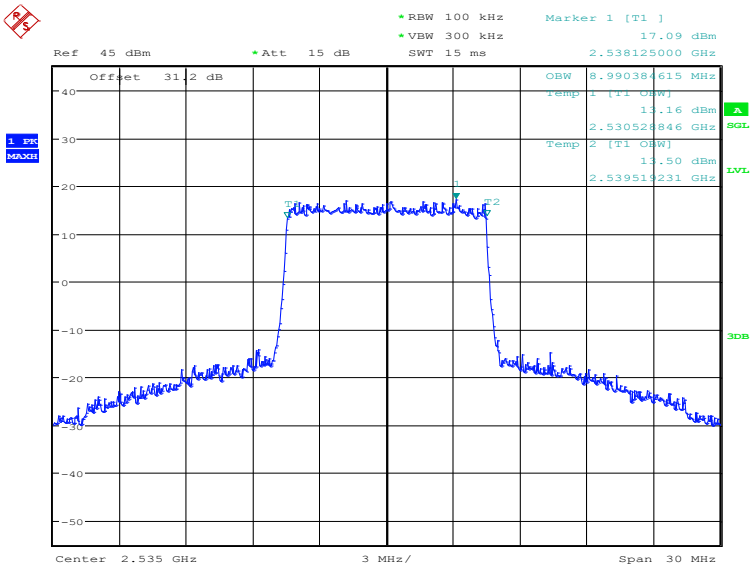
LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)



Date: 5.JAN.2024 08:44:40

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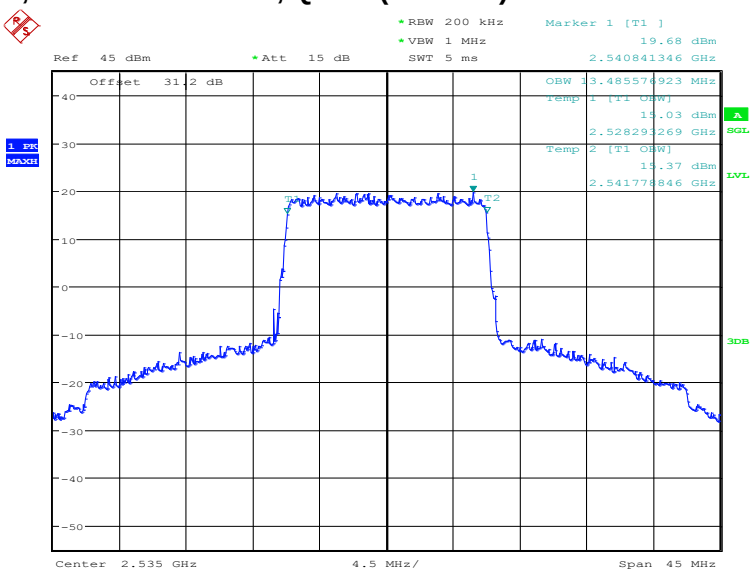
LTE band 7, 15MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

LTE band 7, 15MHz Bandwidth, QPSK (99% BW)



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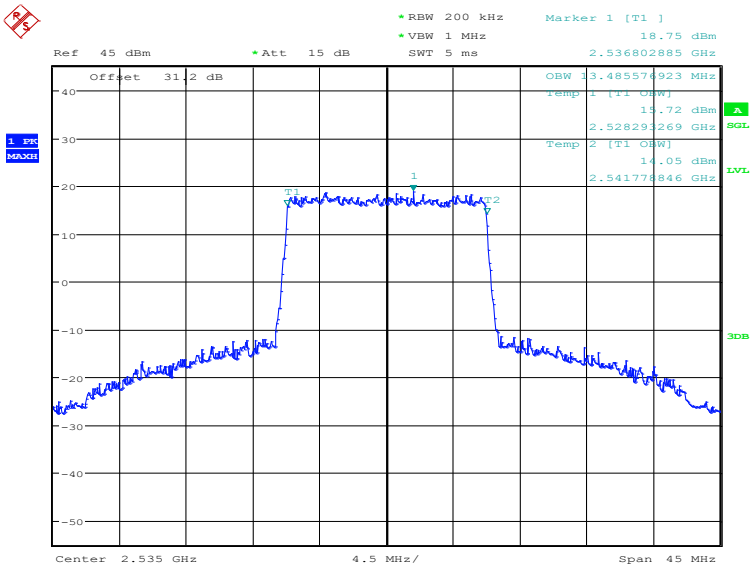
LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)



Date: 5.JAN.2024 08:46:03

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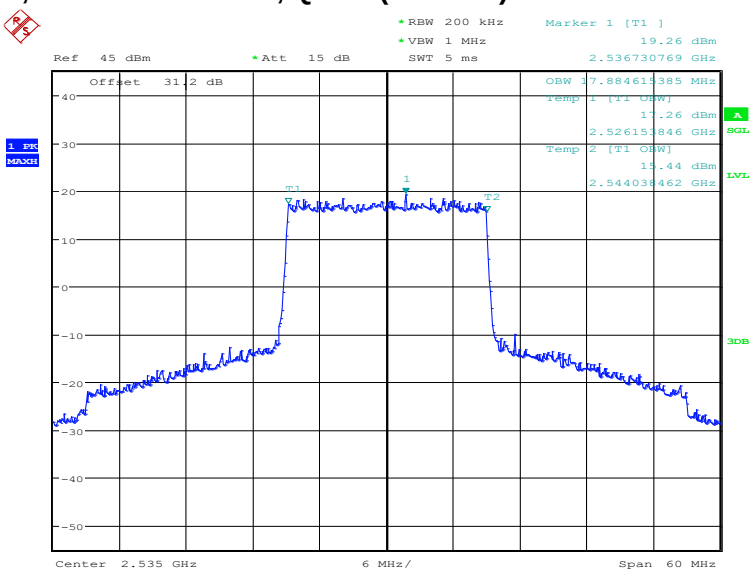
LTE band 7, 20MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17884.62	17980.77

LTE band 7, 20MHz Bandwidth, QPSK (99% BW)



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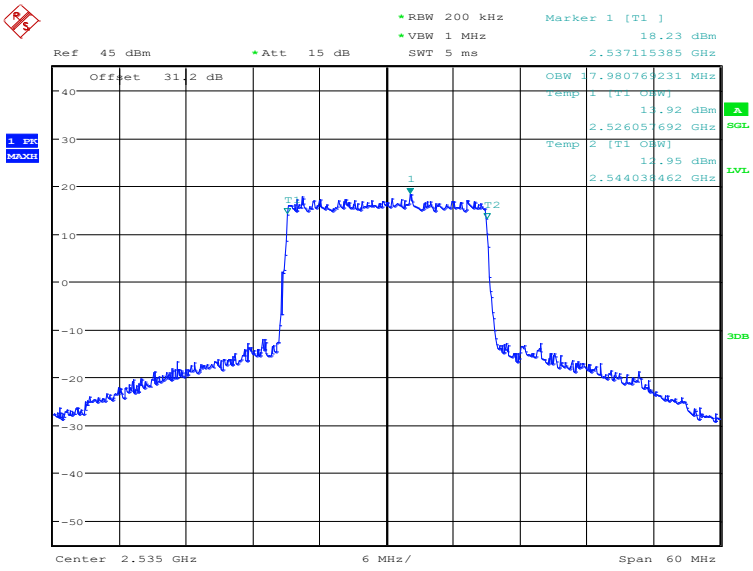
LTE band 7, 20MHz Bandwidth, 16QAM (99% BW)



Date: 5.JAN.2024 08:47:25

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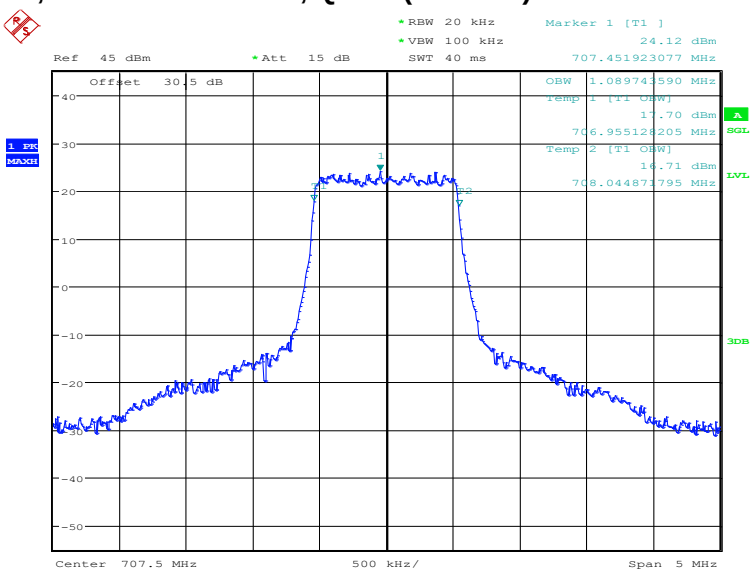
LTE band 12, 1.4MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1089.74

LTE band 12, 1.4MHz Bandwidth, QPSK (99% BW)



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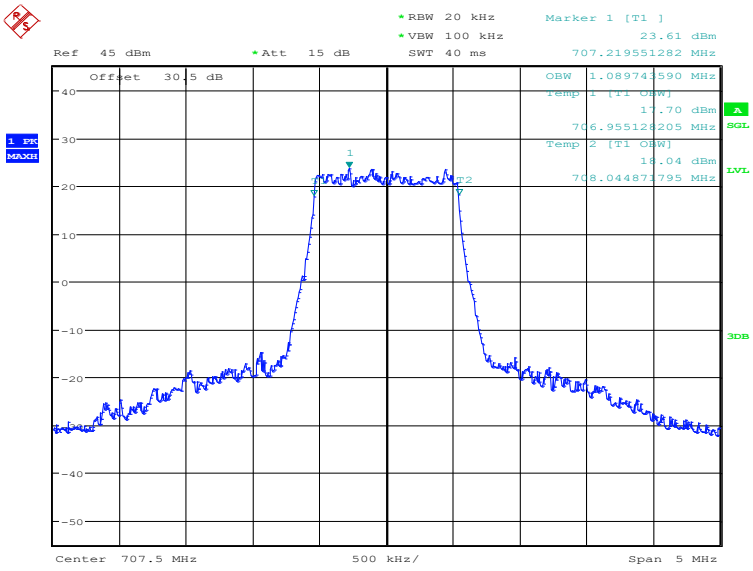
LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)



Date: 28.DEC.2023 10:54:56

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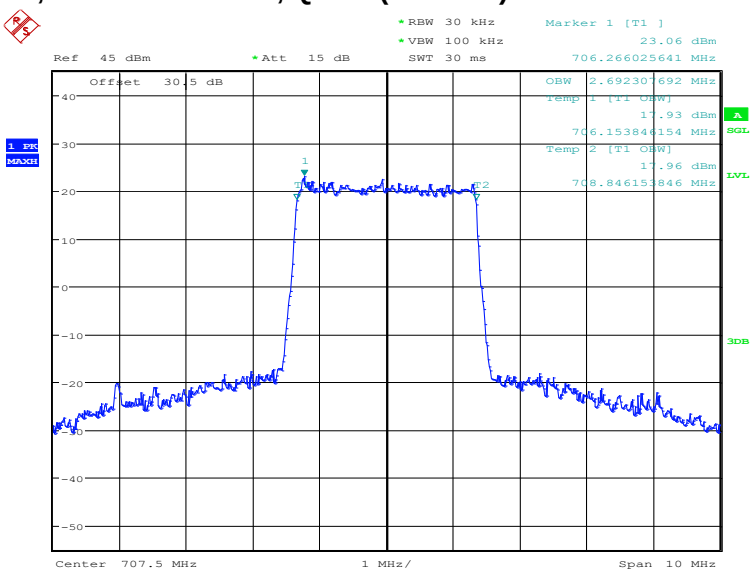
LTE band 12, 3MHz (99%)

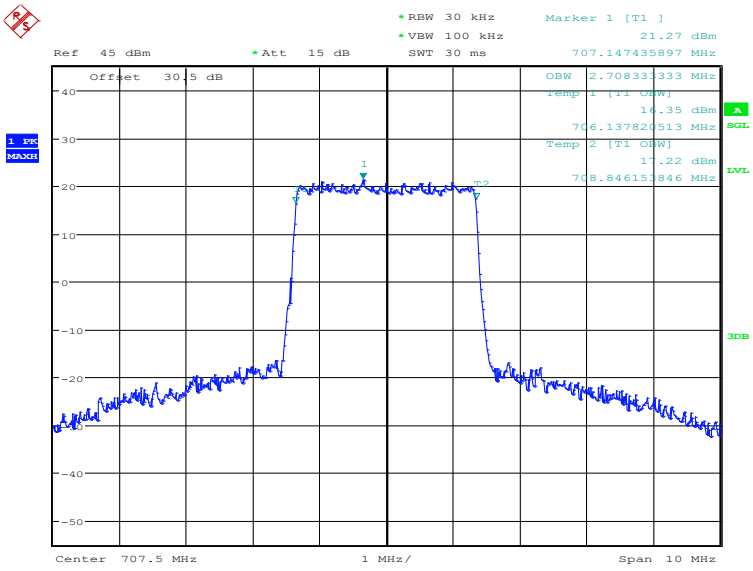
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2708.33

LTE band 12, 3MHz Bandwidth, QPSK (99% BW)



Date: 28.DEC.2023 10:55:38

LTE band 12, 3MHz Bandwidth, 16QAM (99% BW)



Date: 28.DEC.2023 10:56:18

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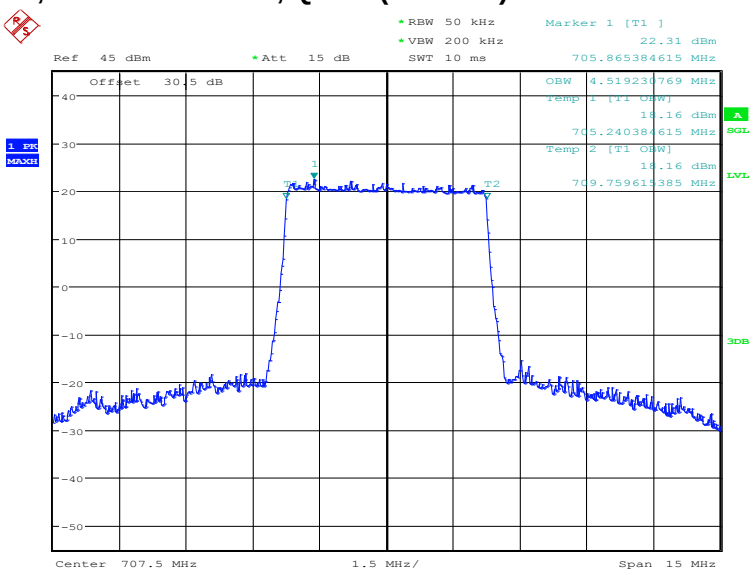
LTE band 12, 5MHz (99%)

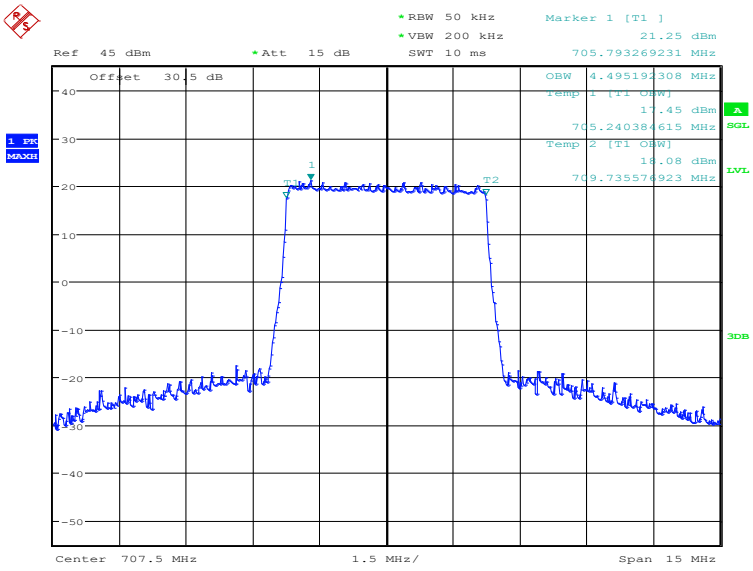
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4519.23	4495.19

LTE band 12, 5MHz Bandwidth, QPSK (99% BW)



Date: 28.DEC.2023 10:57:00

LTE band 12, 5MHz Bandwidth, 16QAM (99% BW)



Date: 28.DEC.2023 10:57:40

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