TEST REPORT

No. I22Z62357-WMD03

for

HMD Global Oy

Smartphone

Model Name: TA-1486

FCC ID: 2AJOTTA-1486

with

Hardware Version: V1.00

Software Version: 00WW_1_010_C01

Issued Date: 2023-03-06

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z62357-WMD03	Rev.0	1st edition	2023-03-06

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

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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 NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP 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: 2022-12-01

Testing End Date: 2023-03-01

1.5. Signature

Dong Yuan

(Prepared this test report)

Zhou Yu

(Reviewed this test report)

Zhao Hui Lin

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	HMD Global Oy
Address /Post:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Contact:	Reza Serafat
Email:	reza.serafat@hmdglobal.com
Telephone:	+491735287964

2.2. Manufacturer Information

Company Name:	HMD Global Oy
Address /Post:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Contact:	Reza Serafat
Email:	reza.serafat@hmdglobal.com
Telephone:	+491735287964

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smartphone
Model Name	TA-1486
FCC ID	2AJOTTA-1486
Antenna	Embedded
Output power	25.59dBm maximum EIRP measured for LTE Band 41
Extreme vol. Limits	3.7VDC to 4.4VDC (nominal: 3.85VDC)
Extreme temp. Tolerance	0°C to +40°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
UT38a	352739200032297/ 352739200032305	V1.00	00WW_1_010_C01	2022-12-01
UT67a	352739200039110/ 352739200039128	V1.00	00WW_1_010_C01	2023-02-17

*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	LPN388463
Manufacturer	Highpower
Capacitance	4800mAh

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

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	10-1-21 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-21 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-21 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-21 Edition
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-21 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

5. Laboratory Environment

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

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω

6. 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

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

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 42

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	NA	NA
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

LTE Band 71

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

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.

LTE Band 25, Band 66, Band 26, Band 12, Band 41 and LTE CA Band 41C overlaps the entire frequency range of LTE Band 2, Band 4, Band 5, Band 17, Band 38 and LTE CA Band 38C. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 17, Band 38, CA Band 38C as well as Band 25, Band 66, Band 26, Band 12, Band 41, CA Band 41.
LTE Band 48 overlaps Band 42(3550MHz-3600MHz) and LTE Band 43(3600MHz-3700MHz) Therefore, test data provided in this report covers Band 42(3550MHz-3600MHz), Band 43(3600MHz-3700MHz) as well as Band 48.

LTE Band 41 is tested by power class 2.

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.

7. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2023-01-17	25 months
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-01-09	1 year
Spectrum Analyzer	FSU	200030	R&S	2023-05-25	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2023-06-20	1 year
Radio Communication Analyzer	MT8821C	6201763159	Anritsu	2023-08-02	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
EMI Antenna	VULB9163	9163-235	Schwarzbeck	2023-04-19	1 year
EMI Antenna	3116	2663	ETS-Lindgren	2023-11-22	1 year
EMI Antenna	LB-7180-NF	J2030013000041	A-INFO	2023-04-26	1 year
EMI Antenna	LB-180400-25-C-KF	J211060826	A-INFO	2023-03-09	1 year
Signal Generator	N5183A	MY49060052	Agilent	2023-07-19	1 year
Test Receiver	E4440A	MY48250642	Agilent	2023-03-10	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2024-01-03	1 year

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	23.20	22.51	21.20	17.74
		2535.0	23.24	22.49	21.28	17.80
		2502.5	22.99	22.40	21.18	17.68
	1 RB low	2567.5	23.11	22.46	21.26	17.80
		2535.0	23.19	22.48	21.33	17.71
		2502.5	23.07	22.38	21.13	17.64
	50% RB mid	2567.5	22.26	21.25	20.28	18.03
		2535.0	22.28	21.32	20.35	17.89
		2502.5	22.17	21.23	20.18	17.85
	100% RB	2567.5	22.22	21.21	20.25	17.82
		2535.0	22.25	21.21	20.23	17.93
		2502.5	22.14	21.09	20.16	17.81
10MHz	1 RB high	2565.0	23.35	22.63	21.29	17.77
		2535.0	23.17	22.49	21.31	17.83
		2505.0	23.18	22.42	21.30	17.74
	1 RB low	2565.0	23.15	22.75	21.48	17.95
		2535.0	23.05	22.69	21.31	17.69
		2505.0	23.03	22.60	21.18	17.68
	50% RB mid	2565.0	22.27	21.35	20.34	17.97
		2535.0	22.28	21.33	20.28	17.97
		2505.0	22.14	21.17	20.23	17.81
	100% RB	2565.0	22.19	21.25	20.22	17.94

		2535.0	22.23	21.27	20.22	17.85
		2505.0	22.13	21.25	20.10	17.90
15MHz	1 RB high	2562.5	23.08	22.33	21.52	17.74
		2535.0	23.00	22.40	21.25	17.73
		2507.5	22.90	22.35	21.19	17.71
	1 RB low	2562.5	23.01	22.39	21.42	17.81
		2535.0	22.97	22.26	21.28	17.82
		2507.5	22.69	22.35	21.30	17.69
	50% RB mid	2562.5	22.11	21.16	20.10	17.93
		2535.0	22.09	21.11	20.14	17.86
		2507.5	22.06	21.06	20.05	17.86
	100% RB	2562.5	22.10	21.06	20.11	17.90
		2535.0	22.10	21.05	20.15	17.85
		2507.5	22.05	21.05	20.04	17.76
20MHz	1 RB high	2560.0	22.91	22.38	21.16	17.77
		2535.0	22.97	22.46	21.28	17.81
		2510.0	22.89	22.37	21.05	17.75
	1 RB low	2560.0	23.01	22.54	21.27	17.85
		2535.0	22.94	22.37	21.15	17.79
		2510.0	22.73	22.10	20.95	17.63
	50% RB mid	2560.0	22.17	21.22	20.23	17.99
		2535.0	22.08	21.18	20.14	17.91
		2510.0	22.02	20.99	20.10	17.87
	100% RB	2560.0	22.07	21.07	20.14	17.91
		2535.0	22.08	21.10	20.18	17.91
		2510.0	22.00	21.04	20.07	17.85

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	22.62	21.90	21.99	18.49
		707.5	22.83	21.92	21.96	18.52
		699.7	22.82	22.02	21.92	18.12
	1 RB low	715.3	22.67	22.09	21.73	18.36
		707.5	22.66	21.99	21.97	18.35
		699.7	22.87	22.20	21.81	17.99
	50% RB mid	715.3	22.73	21.45	21.85	18.49
		707.5	22.75	21.54	21.86	18.25
		699.7	22.72	21.92	21.80	18.56
	100% RB	715.3	21.80	20.78	20.71	18.54
		707.5	21.74	20.78	20.68	17.88
		699.7	21.79	20.85	20.84	18.10
3MHz	1 RB high	714.5	22.72	22.06	21.92	18.09
		707.5	22.75	22.02	21.94	18.40
		700.5	22.88	22.14	21.86	18.02
	1 RB low	714.5	22.80	22.24	21.73	18.14
		707.5	22.84	22.09	21.68	18.42
		700.5	22.90	22.30	21.89	18.25
	50% RB mid	714.5	21.97	21.04	20.93	18.42
		707.5	21.95	21.04	20.90	17.83
		700.5	21.93	20.97	20.79	18.33
	100% RB	714.5	21.83	20.87	20.83	18.04
		707.5	21.81	20.85	20.75	18.14
		700.5	21.90	20.94	20.82	18.35
5MHz	1 RB high	713.5	22.77	22.04	21.71	18.47
		707.5	22.88	22.14	21.91	18.03
		701.5	22.85	22.13	21.64	17.88
	1 RB low	713.5	23.00	22.16	21.86	17.88
		707.5	22.86	22.10	21.99	18.21
		701.5	23.00	22.13	21.92	18.12
	50% RB mid	713.5	21.87	20.95	20.91	17.95
		707.5	21.89	20.85	20.82	17.92
		701.5	21.97	20.91	20.84	18.01
	100% RB	713.5	21.81	20.92	20.97	18.13
		707.5	21.80	20.78	20.70	18.55
		701.5	21.95	20.82	20.94	18.29
10MHz	1 RB high	711.0	22.79	22.03	21.84	18.39
		707.5	22.80	22.06	21.95	17.86
		704.0	22.77	22.21	21.15	18.07
	1 RB low	711.0	23.08	22.27	21.90	18.55

		707.5	22.80	22.33	21.93	18.39
		704.0	23.07	22.23	21.10	18.00
	50% RB mid	711.0	21.85	20.94	20.99	18.46
		707.5	21.88	20.94	20.96	17.83
		704.0	21.95	21.00	20.10	18.55
	100% RB	711.0	22.01	20.90	20.89	17.89
		707.5	21.87	20.96	20.90	18.50
		704.0	21.97	21.03	19.90	18.45

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	22.74	22.22	21.92	18.04
		782.0	22.75	22.10	21.81	18.12
		779.5	22.92	22.06	21.93	18.05
	1 RB low	784.5	22.77	22.30	21.85	18.15
		782.0	22.82	22.21	21.79	18.52
		779.5	22.87	22.23	21.89	18.40
	50% RB mid	784.5	21.92	20.83	20.89	18.58
		782.0	21.89	20.94	20.85	18.49
		779.5	21.93	20.94	20.99	18.55
	100% RB	784.5	21.84	20.80	20.91	18.22
		782.0	21.80	20.89	20.90	18.60
		779.5	21.94	20.88	20.94	18.07
10MHz	1 RB high	782.0	22.89	22.20	22.01	18.05
	1 RB low	782.0	22.93	22.29	21.93	18.53
	50% RB mid	782.0	21.95	20.96	20.95	18.29
	100% RB	782.0	21.93	20.95	20.94	18.53

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	22.56	21.83	21.65	18.94
		1882.5	22.64	22.06	21.82	18.58
		1850.7	22.68	21.96	21.99	18.25
	1 RB low	1914.3	22.51	21.74	21.86	19.20
		1882.5	22.64	21.97	21.81	18.63
		1850.7	22.65	21.89	21.93	18.54
	50% RB mid	1914.3	22.60	21.76	21.76	18.70
		1882.5	22.80	21.89	21.82	19.26
		1850.7	22.63	21.63	21.73	19.11
	100% RB	1914.3	21.73	20.81	20.61	18.62
		1882.5	21.75	20.77	20.84	18.29
		1850.7	21.84	20.93	20.78	18.27
3MHz	1 RB high	1913.5	22.71	22.16	21.82	18.88
		1882.5	22.76	22.03	21.86	18.26
		1851.5	22.86	21.87	21.95	18.26
	1 RB low	1913.5	22.72	21.98	21.81	19.25
		1882.5	22.76	22.16	21.87	18.72
		1851.5	22.83	22.11	21.98	18.51
	50% RB mid	1913.5	21.71	20.82	20.74	18.30
		1882.5	21.77	20.92	20.84	19.22
		1851.5	21.89	20.86	20.83	18.24
	100% RB	1913.5	21.83	20.74	20.78	18.38
		1882.5	21.76	20.77	20.68	18.74
		1851.5	21.89	20.90	20.92	19.02
5MHz	1 RB high	1912.5	22.60	21.94	21.74	18.31
		1882.5	22.79	22.15	21.95	18.29
		1852.5	22.88	22.01	21.98	19.22
	1 RB low	1912.5	22.63	22.05	21.98	18.47
		1882.5	22.82	22.15	21.96	18.51
		1852.5	22.78	22.07	21.97	18.68
	50% RB mid	1912.5	21.75	20.81	20.82	18.46
		1882.5	21.88	20.95	20.87	18.28
		1852.5	21.87	20.97	20.88	19.03
	100% RB	1912.5	21.78	20.74	20.77	18.62
		1882.5	21.77	20.84	20.76	19.11
		1852.5	21.92	20.89	20.90	18.25
10MHz	1 RB high	1910.0	22.85	22.04	21.73	18.56
		1882.5	22.65	22.21	21.83	18.73
		1855.0	22.76	22.09	21.99	19.13
	1 RB low	1910.0	22.72	22.14	21.95	18.72

		1882.5	22.62	22.23	21.83	18.64
		1855.0	22.83	22.23	21.99	18.65
	50% RB mid	1910.0	21.90	20.85	20.86	18.47
		1882.5	21.76	20.91	20.94	18.54
		1855.0	21.91	21.00	20.93	19.27
	100% RB	1910.0	21.76	20.81	20.80	18.28
		1882.5	21.80	20.87	20.86	19.29
		1855.0	21.86	20.95	20.88	18.24
15MHz	1 RB high	1907.5	22.57	22.03	21.99	18.27
		1882.5	22.59	22.03	21.94	19.23
		1857.5	22.64	21.97	21.91	18.46
	1 RB low	1907.5	22.63	21.95	21.90	19.09
		1882.5	22.65	21.99	21.90	18.51
		1857.5	22.61	22.03	21.87	18.70
	50% RB mid	1907.5	21.59	20.72	20.63	18.79
		1882.5	21.76	20.74	20.72	19.20
		1857.5	21.81	20.79	20.81	18.81
	100% RB	1907.5	21.65	20.79	20.71	19.14
		1882.5	21.70	20.80	20.73	18.83
		1857.5	21.71	20.78	20.80	19.21
20MHz	1 RB high	1905.0	22.50	22.04	21.94	18.74
		1882.5	22.60	21.87	21.90	18.25
		1860.0	22.52	21.97	21.85	18.33
	1 RB low	1905.0	22.61	22.09	21.86	18.68
		1882.5	22.61	21.95	21.86	19.14
		1860.0	22.56	22.15	21.76	18.63
	50% RB mid	1905.0	21.76	20.80	20.80	18.85
		1882.5	21.68	20.69	20.68	19.04
		1860.0	21.84	20.83	20.75	18.57
	100% RB	1905.0	21.74	20.82	20.78	19.06
		1882.5	21.71	20.69	20.74	18.70
		1860.0	21.77	20.83	20.85	18.95

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.01	22.14	21.03	18.19
		819.0	23.01	22.18	21.03	18.10
		814.7	23.02	22.04	21.04	18.20
	1 RB low	823.3	22.99	22.10	20.92	18.12
		819.0	23.00	22.14	20.97	18.11
		814.7	22.99	22.09	21.04	18.25
	50% RB mid	823.3	22.97	22.32	21.24	18.16
		819.0	23.00	22.33	21.23	18.09
		814.7	23.12	22.42	21.29	18.13
	100% RB	823.3	22.16	21.29	20.44	18.10
		819.0	22.04	21.25	20.40	18.07
		814.7	22.10	21.35	20.45	18.19
3MHz	1 RB high	822.5	23.06	22.18	21.02	18.14
		819.0	23.04	22.21	21.01	18.13
		815.5	23.12	22.27	21.11	18.20
	1 RB low	822.5	23.10	22.22	20.99	18.09
		819.0	23.10	22.17	21.10	18.14
		815.5	23.20	22.33	21.21	18.24
	50% RB mid	822.5	22.17	21.29	20.15	18.21
		819.0	22.10	21.22	20.07	18.22
		815.5	22.20	21.29	20.13	18.27
	100% RB	822.5	22.17	21.16	20.25	18.19
		819.0	22.15	21.11	20.18	18.17
		815.5	22.18	21.15	20.26	18.21
5MHz	1 RB high	821.5	23.11	22.21	21.28	18.24
		819.0	23.11	22.19	21.29	18.21
		816.5	23.13	22.21	21.34	18.24
	1 RB low	821.5	23.11	22.25	21.26	18.21
		819.0	23.15	22.27	21.34	18.26
		816.5	23.21	22.34	21.43	18.34
	50% RB mid	821.5	22.25	21.27	20.30	18.34
		819.0	22.19	21.24	20.27	18.29
		816.5	22.20	21.34	20.29	18.30
	100% RB	821.5	22.24	21.18	20.26	18.26
		819.0	22.18	21.16	20.21	18.25
		816.5	22.23	21.20	20.22	18.19
10MHz	1 RB high	819.0	23.10	22.30	21.08	18.23
	1 RB low	819.0	23.22	22.31	21.15	18.24
	50% RB mid	819.0	22.23	21.39	20.33	18.34
	100% RB	819.0	22.26	21.32	20.25	18.29

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.81	21.95	20.83	18.04
		836.5	22.89	21.97	21.02	18.06
		824.7	22.86	21.99	21.46	18.15
	1 RB low	848.3	22.86	22.05	20.90	18.12
		836.5	22.93	21.94	20.93	18.01
		824.7	22.93	21.99	21.44	18.12
	50% RB mid	848.3	22.86	22.19	20.97	18.02
		836.5	22.99	22.25	21.06	17.98
		824.7	23.06	22.33	21.10	18.23
	100% RB	848.3	21.99	21.16	20.08	18.07
		836.5	22.03	20.85	20.08	18.07
		824.7	22.10	21.30	20.19	18.20
3MHz	1 RB high	847.5	22.87	22.02	20.87	18.01
		836.5	23.04	22.13	21.03	18.17
		825.5	23.05	22.14	21.08	18.19
	1 RB low	847.5	22.94	22.03	20.97	18.08
		836.5	23.05	22.15	21.02	18.09
		825.5	23.11	22.21	21.06	18.13
	50% RB mid	847.5	22.03	21.11	20.00	18.12
		836.5	22.14	21.14	20.11	18.15
		825.5	22.16	21.22	20.14	18.22
	100% RB	847.5	22.02	21.03	20.09	18.07
		836.5	22.04	21.06	20.13	18.11
		825.5	22.16	21.13	20.25	18.20
5MHz	1 RB high	846.5	22.92	22.07	21.16	18.10
		836.5	23.03	22.16	21.26	18.32
		826.5	23.11	22.27	21.31	18.29
	1 RB low	846.5	23.03	22.16	21.22	18.23
		836.5	23.08	22.17	21.23	18.29
		826.5	23.13	22.24	21.28	18.25
	50% RB mid	846.5	22.10	21.19	20.17	18.22
		836.5	22.21	21.18	20.17	18.24
		826.5	22.21	21.28	20.31	18.37
	100% RB	846.5	22.09	21.06	20.16	18.15
		836.5	22.11	21.08	20.11	18.16
		826.5	22.23	21.23	20.25	18.27
10MHz	1 RB high	844.0	23.00	22.08	21.29	18.07
		836.5	23.06	22.14	21.01	18.17
		829.0	23.09	22.08	20.98	18.16
	1 RB low	844.0	23.06	22.10	21.34	18.11

		836.5	23.16	22.25	21.06	18.20
		829.0	23.10	22.31	21.02	18.12
	50% RB mid	844.0	22.12	21.17	20.23	18.24
		836.5	22.24	21.26	20.34	18.28
		829.0	22.28	21.37	20.27	18.36
	100% RB	844.0	22.16	21.19	20.13	18.14
		836.5	22.17	21.20	20.18	18.20
		829.0	22.27	21.30	20.28	18.28
15MHz	1 RB high	841.5	22.84	22.32	21.32	18.29
		836.5	22.91	22.39	21.37	18.34
		831.5	22.88	22.55	21.33	18.32
	1 RB low	841.5	23.01	22.47	21.39	18.33
		836.5	23.08	22.54	21.43	18.40
		831.5	22.95	22.61	21.36	18.29
	50% RB mid	841.5	22.03	20.95	20.07	17.95
		836.5	22.08	21.00	20.11	18.08
		831.5	22.10	21.02	20.13	18.08
	100% RB	841.5	21.99	21.06	20.08	17.98
		836.5	22.03	21.08	20.06	18.12
		831.5	22.04	21.05	20.10	18.07

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	24.93	24.07	24.31	19.71
		2593.0	25.00	24.30	24.22	19.69
		2498.5	24.89	24.11	24.13	19.76
	1 RB low	2687.5	24.95	24.22	24.28	19.99
		2593.0	24.95	24.23	24.19	19.87
		2498.5	24.87	24.06	24.11	19.55
	50% RB mid	2687.5	24.06	23.09	23.08	20.06
		2593.0	24.10	23.18	23.19	20.03
		2498.5	23.97	22.97	22.96	20.01
	100% RB	2687.5	24.03	23.12	23.01	20.16
		2593.0	24.09	23.16	23.07	20.06
		2498.5	23.89	22.98	22.91	19.91
10MHz	1 RB high	2685.0	24.87	24.18	24.06	19.77
		2593.0	24.95	24.20	24.10	19.78
		2501.0	24.82	24.20	24.05	19.67
	1 RB low	2685.0	25.09	24.39	24.34	19.92
		2593.0	25.07	24.37	24.21	19.90
		2501.0	24.87	24.18	24.08	19.65
	50% RB mid	2685.0	24.00	23.11	23.12	20.12
		2593.0	24.14	23.20	23.15	19.86
		2501.0	23.98	23.05	22.96	19.98
	100% RB	2685.0	24.05	23.14	23.05	20.16
		2593.0	24.16	23.20	23.11	20.11
		2501.0	23.98	23.03	22.93	20.02
15MHz	1 RB high	2682.5	24.70	24.10	24.06	19.67
		2593.0	24.78	24.12	24.05	19.63
		2503.5	24.67	24.05	24.03	19.74
	1 RB low	2682.5	24.90	24.27	24.23	20.01
		2593.0	24.87	24.26	24.17	19.88
		2503.5	24.59	24.00	23.99	19.71
	50% RB mid	2682.5	24.02	23.02	23.01	20.09
		2593.0	23.94	22.97	22.98	19.90
		2503.5	23.85	22.83	22.87	20.01
	100% RB	2682.5	23.90	22.97	23.01	20.09
		2593.0	23.95	23.01	23.03	20.10
		2503.5	23.82	22.91	22.92	20.08
20MHz	1 RB high	2680.0	24.68	24.08	24.08	19.74
		2593.0	24.75	24.14	24.02	19.69
		2506.0	24.72	24.11	24.01	19.68
	1 RB low	2680.0	24.95	24.30	24.30	19.92

		2593.0	24.95	24.34	24.22	19.85
		2506.0	24.60	23.97	23.93	19.61
	50% RB mid	2680.0	24.03	23.12	23.03	20.06
		2593.0	23.96	23.05	22.91	19.96
		2506.0	23.88	22.92	22.86	19.92
	100% RB	2680.0	23.98	23.04	23.08	20.11
		2593.0	23.99	23.01	23.04	20.07
		2506.0	23.87	22.96	22.95	19.99

LTE band 42

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3452.5	23.20	22.57	21.81	18.56
		3500.0	23.18	22.64	21.50	18.40
		3547.5	23.19	22.37	21.50	18.47
	1 RB low	3452.5	23.23	22.69	21.83	18.44
		3500.0	23.22	22.56	21.31	18.43
		3547.5	23.22	22.35	21.45	18.60
	50% RB mid	3452.5	22.20	21.24	20.15	18.28
		3500.0	22.15	21.30	20.22	18.32
		3547.5	22.27	21.47	20.24	18.30
	100% RB	3452.5	22.05	21.10	20.11	18.16
		3500.0	22.12	21.16	20.18	18.18
		3547.5	22.26	21.32	20.24	18.27
10MHz	1 RB high	3455.0	23.13	22.27	21.23	18.32
		3500.0	23.04	22.25	21.17	18.30
		3545.0	23.22	22.41	21.27	18.35
	1 RB low	3455.0	23.17	22.30	21.42	18.38
		3500.0	23.15	22.32	21.40	18.35
		3545.0	23.24	22.43	21.33	18.40
	50% RB mid	3455.0	22.16	21.12	20.22	18.16
		3500.0	22.15	21.18	20.26	18.22
		3545.0	22.30	21.37	20.29	18.30
	100% RB	3455.0	22.11	21.15	20.20	18.16
		3500.0	22.18	21.23	20.20	18.20
		3545.0	22.30	21.39	20.29	18.30
15MHz	1 RB high	3457.5	22.90	22.18	21.35	18.35
		3500.0	22.91	22.17	21.32	18.30
		3542.5	22.97	22.30	21.34	18.41
	1 RB low	3457.5	22.92	22.16	21.37	18.24
		3500.0	22.86	22.19	21.30	18.19
		3542.5	23.01	22.29	21.45	18.34
	50% RB mid	3457.5	21.98	20.95	19.99	18.00
		3500.0	21.99	21.03	19.98	18.05
		3542.5	22.14	21.18	20.10	18.14
	100% RB	3457.5	21.95	21.00	20.03	18.05
		3500.0	22.00	21.01	20.04	18.07
		3542.5	22.12	21.13	20.17	18.18
20MHz	1 RB high	3460.0	22.94	22.33	21.41	18.57
		3500.0	22.99	22.32	21.36	18.54
		3540.0	22.97	22.41	21.43	18.62
	1 RB low	3460.0	23.00	22.32	21.24	18.62

		3500.0	22.98	22.32	21.17	18.57
		3540.0	23.00	22.28	21.24	18.66
	50% RB mid	3460.0	22.00	21.07	20.10	18.14
		3500.0	21.99	21.06	20.06	18.09
		3540.0	22.10	21.17	20.16	18.15
	100% RB	3460.0	22.02	21.07	20.11	18.09
		3500.0	22.02	21.03	20.14	18.08
		3540.0	22.15	21.15	20.19	18.22

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	22.88	22.22	21.17	18.84
		3625.0	22.83	22.29	21.08	18.74
		3552.5	23.07	22.31	21.43	19.01
	1 RB low	3697.5	22.84	22.49	21.12	18.53
		3625.0	22.72	22.32	21.10	18.91
		3552.5	22.96	22.40	21.54	18.76
	50% RB mid	3697.5	22.19	21.41	20.24	18.92
		3625.0	22.34	21.12	20.20	18.41
		3552.5	22.37	21.38	20.32	18.57
	100% RB	3697.5	22.55	21.30	20.57	18.35
		3625.0	22.57	21.28	20.53	18.51
		3552.5	22.10	21.15	20.31	18.71
10MHz	1 RB high	3695.0	22.89	22.42	21.25	18.41
		3625.0	23.00	22.16	21.26	18.69
		3555.0	23.00	22.43	21.54	18.52
	1 RB low	3695.0	22.97	22.46	21.47	18.70
		3625.0	23.01	22.18	21.39	18.86
		3555.0	22.71	22.27	21.44	18.52
	50% RB mid	3695.0	22.45	21.41	20.11	18.99
		3625.0	22.20	21.20	20.21	18.94
		3555.0	22.23	21.09	20.19	18.34
	100% RB	3695.0	22.33	21.33	20.16	18.60
		3625.0	22.31	21.43	20.44	18.93
		3555.0	22.29	21.28	20.16	18.48
15MHz	1 RB high	3692.5	22.79	22.54	21.43	18.46
		3625.0	22.96	22.28	21.48	18.56
		3557.5	22.85	22.54	21.35	18.73
	1 RB low	3692.5	22.76	22.31	21.10	18.52
		3625.0	22.68	22.48	21.50	18.96
		3557.5	22.91	22.07	21.13	18.60
	50% RB mid	3692.5	22.54	21.10	20.09	18.53
		3625.0	22.35	21.46	20.46	18.55
		3557.5	22.35	21.35	20.21	18.81
	100% RB	3692.5	22.13	21.16	20.51	18.38
		3625.0	22.49	21.44	20.54	18.41
		3557.5	22.47	21.25	20.36	18.54
20MHz	1 RB high	3690.0	22.99	22.41	21.12	18.74
		3625.0	22.95	22.33	21.06	18.60

		3560.0	22.93	22.24	20.96	18.91
	1 RB low	3690.0	23.07	22.42	21.05	18.80
		3625.0	22.97	22.30	20.92	18.42
		3560.0	22.89	22.22	20.89	18.47
	50% RB mid	3690.0	22.27	21.32	20.34	18.78
		3625.0	22.18	21.20	20.21	18.84
		3560.0	22.11	21.17	20.18	18.99
	100% RB	3690.0	22.26	21.31	20.30	18.87
		3625.0	22.13	21.17	20.20	18.57
		3560.0	22.12	21.15	20.15	18.92

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	22.33	21.68	21.65	18.96
		1745.0	22.47	21.82	21.81	18.42
		1710.7	22.40	21.92	21.65	18.83
	1 RB low	1779.3	22.39	21.63	21.58	18.87
		1745.0	22.46	21.85	21.82	18.85
		1710.7	22.42	21.62	21.72	18.70
	50% RB mid	1779.3	22.54	21.65	21.48	18.37
		1745.0	22.61	21.75	21.69	18.34
		1710.7	22.58	21.60	21.61	18.77
	100% RB	1779.3	21.54	20.60	20.36	18.97
		1745.0	21.65	20.74	20.57	18.90
		1710.7	21.61	20.60	20.51	18.38
3MHz	1 RB high	1778.5	22.47	21.89	21.62	18.73
		1745.0	22.69	21.86	21.78	18.90
		1711.5	22.62	21.96	21.80	18.94
	1 RB low	1778.5	22.46	21.81	21.66	18.55
		1745.0	22.61	21.96	21.70	18.62
		1711.5	22.60	21.90	21.70	18.63
	50% RB mid	1778.5	21.64	20.68	20.76	18.65
		1745.0	21.69	20.72	20.72	18.53
		1711.5	21.72	20.78	20.77	18.95
	100% RB	1778.5	21.57	20.58	20.61	18.62
		1745.0	21.65	20.57	20.68	18.76
		1711.5	21.70	20.66	20.66	18.72
5MHz	1 RB high	1777.5	22.51	21.91	21.69	18.41
		1745.0	22.60	21.92	21.73	18.40
		1712.5	22.74	21.88	21.79	18.37
	1 RB low	1777.5	22.45	21.89	21.66	18.82
		1745.0	22.60	22.03	21.76	18.78
		1712.5	22.54	22.05	21.79	18.99
	50% RB mid	1777.5	21.64	20.69	20.59	18.90
		1745.0	21.69	20.67	20.68	18.58
		1712.5	21.73	20.75	20.72	18.39
	100% RB	1777.5	21.63	20.60	20.63	18.85
		1745.0	21.61	20.64	20.60	18.39
		1712.5	21.77	20.70	20.66	18.58
10MHz	1 RB high	1775.0	22.35	22.09	21.80	18.45
		1745.0	22.63	22.04	21.80	18.45
		1715.0	22.67	22.06	21.84	18.88
	1 RB low	1775.0	22.57	22.11	21.73	18.94

		1745.0	22.57	22.13	21.78	18.86
		1715.0	22.54	22.18	21.75	18.33
	50% RB mid	1775.0	21.53	20.61	20.53	18.97
		1745.0	21.73	20.75	20.74	18.51
		1715.0	21.78	20.70	20.75	18.61
	100% RB	1775.0	21.52	20.62	20.54	18.35
		1745.0	21.63	20.67	20.56	18.87
		1715.0	21.76	20.71	20.58	18.40
15MHz	1 RB high	1772.5	22.28	21.93	22.00	18.62
		1745.0	22.39	21.89	21.82	18.66
		1717.5	22.43	21.98	21.94	18.71
	1 RB low	1772.5	22.42	21.75	21.89	18.42
		1745.0	22.53	21.72	21.87	18.55
		1717.5	22.37	21.94	21.97	18.88
	50% RB mid	1772.5	21.53	20.59	20.63	18.45
		1745.0	21.59	20.52	20.61	18.41
		1717.5	21.60	20.60	20.60	18.81
	100% RB	1772.5	21.47	20.47	20.50	18.99
		1745.0	21.63	20.65	20.55	18.55
		1717.5	21.55	20.57	20.57	18.59
20MHz	1 RB high	1770.0	22.42	21.99	21.87	18.72
		1745.0	22.41	21.90	21.77	18.82
		1720.0	22.51	22.02	21.85	18.33
	1 RB low	1770.0	22.40	21.89	21.89	18.36
		1745.0	22.50	21.97	21.93	18.86
		1720.0	22.41	21.77	21.89	18.34
	50% RB mid	1770.0	21.59	20.59	20.52	19.00
		1745.0	21.61	20.58	20.56	18.45
		1720.0	21.66	20.61	20.60	18.85
	100% RB	1770.0	21.51	20.58	20.60	18.83
		1745.0	21.56	20.57	20.57	18.98
		1720.0	21.71	20.54	20.63	18.89

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.82	22.10	21.28	17.49
		680.5	22.82	22.18	21.18	17.52
		665.5	22.84	22.23	20.96	18.01
	1 RB low	695.5	22.83	22.22	21.10	17.39
		680.5	22.99	22.24	21.13	17.35
		665.5	23.08	22.28	21.24	17.68
	50% RB mid	695.5	21.96	20.96	20.01	17.97
		680.5	21.98	20.99	20.08	17.45
		665.5	22.03	21.03	20.09	17.40
	100% RB	695.5	21.83	20.91	20.92	17.79
		680.5	21.91	20.97	19.94	17.48
		665.5	22.00	20.99	19.95	17.79
10MHz	1 RB high	693.0	22.83	22.25	21.96	18.00
		680.5	23.01	22.11	21.01	17.41
		668.0	22.92	22.23	21.19	17.36
	1 RB low	693.0	23.13	22.39	21.99	17.35
		680.5	23.02	22.16	20.91	17.77
		668.0	23.03	22.54	21.16	17.88
	50% RB mid	693.0	21.90	20.93	20.95	17.86
		680.5	21.91	20.98	20.01	17.34
		668.0	22.04	20.98	19.99	17.95
	100% RB	693.0	21.96	20.91	20.94	17.95
		680.5	21.99	21.05	19.95	17.42
		668.0	21.93	20.99	20.00	17.74
15MHz	1 RB high	690.5	22.66	21.88	21.78	17.46
		680.5	22.68	21.96	21.81	17.34
		670.5	22.66	21.87	21.87	17.88
	1 RB low	690.5	22.72	22.01	21.96	17.69
		680.5	22.84	22.20	21.92	17.94
		670.5	22.74	22.19	21.09	17.77
	50% RB mid	690.5	21.78	20.81	20.80	17.40
		680.5	21.77	20.73	20.86	17.43
		670.5	21.81	20.90	20.86	17.55
	100% RB	690.5	21.74	20.73	20.80	17.49
		680.5	21.73	20.80	20.86	18.06
		670.5	21.80	20.85	21.00	17.81
20MHz	1 RB high	688.0	22.58	21.96	21.03	17.53
		680.5	22.53	21.96	20.96	17.89
		673.0	22.70	21.91	20.92	18.05
	1 RB low	688.0	22.71	22.16	21.03	17.67

		680.5	22.73	22.18	21.03	17.74
		673.0	22.81	22.06	21.08	17.83
	50% RB mid	688.0	21.83	20.79	19.80	17.83
		680.5	21.77	20.76	19.80	17.92
		673.0	21.81	20.92	19.85	17.99
	100% RB	688.0	21.78	20.83	19.80	17.87
		680.5	21.76	20.78	19.78	17.95
		673.0	21.85	20.97	19.92	17.44

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	QPSK	1	49	1	0	23.98
				50	0	100	0	22.23
			16QAM	1	49	1	0	23.19
				50	0	100	0	21.25
			64QAM	1	49	1	0	22.00
				50	0	100	0	21.28
			256QAM	1	49	1	0	19.15
				50	0	100	0	19.29
15MHz/ 10MHz	2530.1	2542.1	QPSK	1	74	1	0	24.02
				75	0	50	0	22.12
			16QAM	1	74	1	0	23.21
				75	0	50	0	21.20
			64QAM	1	74	1	0	22.30
				75	0	50	0	21.21
			256QAM	1	74	1	0	19.32
				75	0	50	0	19.19
15MHz/ 15MHz	2527.5	2542.5	QPSK	1	74	1	0	24.04
				75	0	75	0	22.24
			16QAM	1	74	1	0	23.21
				75	0	75	0	21.24
			64QAM	1	74	1	0	22.28
				75	0	75	0	21.28
			256QAM	1	74	1	0	19.30
				75	0	75	0	19.27
15MHz/ 20MHz	2525.3	2542.4	QPSK	1	74	1	0	24.03
				75	0	100	0	22.27
			16QAM	1	74	1	0	23.25
				75	0	100	0	21.20
			64QAM	1	74	1	0	21.95
				75	0	100	0	21.34
			256QAM	1	74	1	0	19.16
				75	0	100	0	19.29
20MHz/ 10MHz	2530.1	2544.5	QPSK	1	99	1	0	24.12
				100	0	50	0	22.22
			16QAM	1	99	1	0	23.14
				100	0	50	0	21.24
			64QAM	1	99	1	0	22.37
				100	0	50	0	21.26
			256QAM	1	99	1	0	18.95

				100	0	50	0	19.22
20MHz/ 15MHz	2527.6	2544.7	QPSK	1	99	1	0	24.17
				100	0	75	0	22.22
			16QAM	1	99	1	0	23.37
				100	0	75	0	21.30
			64QAM	1	99	1	0	22.35
				100	0	75	0	21.27
			256QAM	1	99	1	0	19.40
				100	0	75	0	19.23
20MHz/ 20MHz	2525.1	2544.9	QPSK	1	99	1	0	24.16
				100	0	100	0	22.33
			16QAM	1	99	1	0	23.02
				100	0	100	0	21.30
			64QAM	1	99	1	0	22.28
				100	0	100	0	21.29
			256QAM	1	99	1	0	19.40
				100	0	100	0	19.24

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	23.96
				25	0	100	0	22.05
			16QAM	1	24	1	0	23.13
				25	0	100	0	21.12
			64QAM	1	24	1	0	22.05
				25	0	100	0	21.18
			256QAM	1	24	1	0	19.12
				25	0	100	0	19.06
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.96
				50	0	75	0	22.14
			16QAM	1	49	1	0	23.06
				50	0	75	0	21.10
			64QAM	1	49	1	0	21.87
				50	0	75	0	21.09
			256QAM	1	49	1	0	19.05
				50	0	75	0	19.13
10MHz/ 20MHz	2583.6	2598.0	QPSK	1	49	1	0	23.97
				50	0	100	0	22.11
			16QAM	1	49	1	0	23.07
				50	0	100	0	21.16
			64QAM	1	49	1	0	21.97
				50	0	100	0	21.19
			256QAM	1	49	1	0	19.13
				50	0	100	0	19.21
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	24.08
				75	0	50	0	22.11
			16QAM	1	74	1	0	22.88
				75	0	50	0	21.19
			64QAM	1	74	1	0	22.24
				75	0	50	0	21.22
			256QAM	1	74	1	0	19.08
				75	0	50	0	19.25
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.98
				75	0	75	0	22.15
			16QAM	1	74	1	0	22.77
				75	0	75	0	21.13
			64QAM	1	74	1	0	22.12
				75	0	75	0	21.24
			256QAM	1	74	1	0	19.03
				75	0	75	0	19.15

15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.88
				75	0	100	0	22.15
			16QAM	1	74	1	0	22.81
				75	0	100	0	21.16
			64QAM	1	74	1	0	21.88
				75	0	100	0	21.21
			256QAM	1	74	1	0	19.08
				75	0	100	0	19.12
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	24.11
				100	0	25	0	22.17
			16QAM	1	99	1	0	22.99
				100	0	25	0	21.11
			64QAM	1	99	1	0	22.35
				100	0	25	0	21.12
			256QAM	1	99	1	0	19.03
				100	0	25	0	19.09
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	24.22
				100	0	50	0	22.19
			16QAM	1	99	1	0	23.00
				100	0	50	0	21.12
			64QAM	1	99	1	0	22.32
				100	0	50	0	21.12
			256QAM	1	99	1	0	19.06
				100	0	50	0	19.12
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	24.02
				100	0	75	0	22.18
			16QAM	1	99	1	0	23.15
				100	0	75	0	21.18
			64QAM	1	99	1	0	22.34
				100	0	75	0	21.23
			256QAM	1	99	1	0	19.42
				100	0	75	0	19.19
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	24.04
				100	0	100	0	22.19
			16QAM	1	99	1	0	22.94
				100	0	100	0	21.18
			64QAM	1	99	1	0	22.33
				100	0	100	0	21.28
			256QAM	1	99	1	0	18.91
				100	0	100	0	19.14

LTE CA Band 66C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.19
				25	0	100	0	21.40
			16QAM	1	24	1	0	22.34
				25	0	100	0	20.28
			64QAM	1	24	1	0	21.19
				25	0	100	0	20.35
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	24	1	0	18.39
				25	0	100	0	18.33
			16QAM	1	49	1	0	23.21
				50	0	75	0	21.34
			64QAM	1	49	1	0	22.37
				50	0	75	0	20.33
10MHz/ 20MHz	1745.6	1760.0	QPSK	1	49	1	0	21.02
				50	0	75	0	20.37
			16QAM	1	49	1	0	18.29
				50	0	75	0	18.38
			64QAM	1	49	1	0	23.15
				50	0	100	0	21.38
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	49	1	0	22.35
				50	0	100	0	20.35
			16QAM	1	49	1	0	21.16
				50	0	100	0	20.37
			64QAM	1	49	1	0	18.37
				50	0	100	0	18.40
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.04
				75	0	50	0	21.32
			16QAM	1	74	1	0	22.13
				75	0	50	0	20.30
			64QAM	1	74	1	0	20.93
				75	0	50	0	20.36
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	18.20
				75	0	50	0	18.35
			16QAM	1	74	1	0	23.02
				75	0	75	0	21.30
			64QAM	1	74	1	0	21.88
				75	0	75	0	20.30
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	74	1	0	20.98
				75	0	75	0	20.39
			16QAM	1	74	1	0	18.25
				75	0	75	0	18.38

			64QAM	1	74	1	0	23.09
				75	0	100	0	21.32
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	74	1	0	22.24
				75	0	100	0	20.32
			16QAM	1	74	1	0	21.03
				75	0	100	0	20.38
			64QAM	1	74	1	0	18.31
				75	0	100	0	18.35
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.19
				100	0	25	0	21.36
			16QAM	1	99	1	0	22.34
				100	0	25	0	20.37
			64QAM	1	99	1	0	21.37
				100	0	25	0	20.43
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	18.30
				100	0	25	0	18.39
			16QAM	1	99	1	0	23.21
				100	0	50	0	21.37
			64QAM	1	99	1	0	22.10
				100	0	50	0	20.40

A.1.3 Radiated

A.1.3.1 Description

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

LTE Band 7: Rule Part 27.50(h)(2) specifies, " Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power."

LTE Band 12/71: 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 ".

LTE Band 13: 27.50(b)(10) 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."

LTE Band 25/2: 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications."

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

LTE Band 26(824MHz~849MHz)/5: 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts"

LTE Band 42: Rule Part 27.50(k)(3) specifies, " Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications."

LTE Band 48: Rule Part 96.41(b) specifies " Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits 23dBm/10megahertz."

FDD Band 41/38: 27.50(h)(2) specifies " *Mobile and other user stations.* Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power".

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

A.1.3.2 Method of Measurement

ANSI C63.26 chapter 5.2.5.5: when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts).

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$ERP \text{ or } EIRP = P_{Mea} + G_T$$

Where

ERP or EIRP	effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Mea} , e.g., dBm or dBW)
P_{Mea}	measured transmitter output power or PSD, in dBm or dBW
G_T	gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

LTE band 7-EIRP

Limits: ≤33dBm (2W)

Max EIRP: 23.85dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.20	22.51	21.2	17.74	23.70	23.01	21.70	18.24
		2535	23.24	22.49	21.28	17.8	23.74	22.99	21.78	18.30
		2502.5	22.99	22.4	21.18	17.68	23.49	22.90	21.68	18.18
	1 RB low	2567.5	23.11	22.46	21.26	17.8	23.61	22.96	21.76	18.30
		2535	23.19	22.48	21.33	17.71	23.69	22.98	21.83	18.21
		2502.5	23.07	22.38	21.13	17.64	23.57	22.88	21.63	18.14
	50% RB mid	2567.5	22.26	21.25	20.28	18.03	22.76	21.75	20.78	18.53
		2535	22.28	21.32	20.35	17.89	22.78	21.82	20.85	18.39
		2502.5	22.17	21.23	20.18	17.85	22.67	21.73	20.68	18.35
	100% RB	2567.5	22.22	21.21	20.25	17.82	22.72	21.71	20.75	18.32
		2535	22.25	21.21	20.23	17.93	22.75	21.71	20.73	18.43
		2502.5	22.14	21.09	20.16	17.81	22.64	21.59	20.66	18.31
10MHz	1 RB high	2565	23.35	22.63	21.29	17.77	23.85	23.13	21.79	18.27
		2535	23.17	22.49	21.31	17.83	23.67	22.99	21.81	18.33
		2505	23.18	22.42	21.3	17.74	23.68	22.92	21.80	18.24
	1 RB low	2565	23.15	22.75	21.48	17.95	23.65	23.25	21.98	18.45
		2535	23.05	22.69	21.31	17.69	23.55	23.19	21.81	18.19
		2505	23.03	22.6	21.18	17.68	23.53	23.10	21.68	18.18
	50% RB mid	2565	22.27	21.35	20.34	17.97	22.77	21.85	20.84	18.47
		2535	22.28	21.33	20.28	17.97	22.78	21.83	20.78	18.47
		2505	22.14	21.17	20.23	17.81	22.64	21.67	20.73	18.31
	100% RB	2565	22.19	21.25	20.22	17.94	22.69	21.75	20.72	18.44
		2535	22.23	21.27	20.22	17.85	22.73	21.77	20.72	18.35
		2505	22.13	21.25	20.1	17.9	22.63	21.75	20.60	18.40
15MHz	1 RB high	2562.5	23.08	22.33	21.52	17.74	23.58	22.83	22.02	18.24
		2535	23	22.4	21.25	17.73	23.50	22.90	21.75	18.23
		2507.5	22.9	22.35	21.19	17.71	23.40	22.85	21.69	18.21
	1 RB low	2562.5	23.01	22.39	21.42	17.81	23.51	22.89	21.92	18.31
		2535	22.97	22.26	21.28	17.82	23.47	22.76	21.78	18.32
		2507.5	22.69	22.35	21.3	17.69	23.19	22.85	21.80	18.19
	50% RB mid	2562.5	22.11	21.16	20.1	17.93	22.61	21.66	20.60	18.43
		2535	22.09	21.11	20.14	17.86	22.59	21.61	20.64	18.36
		2507.5	22.06	21.06	20.05	17.86	22.56	21.56	20.55	18.36
	100% RB	2562.5	22.1	21.06	20.11	17.9	22.60	21.56	20.61	18.40
		2535	22.1	21.05	20.15	17.85	22.60	21.55	20.65	18.35

		2507.5	22.05	21.05	20.04	17.76	22.55	21.55	20.54	18.26
20MHz	1 RB high	2560	22.91	22.38	21.16	17.77	23.41	22.88	21.66	18.27
		2535	22.97	22.46	21.28	17.81	23.47	22.96	21.78	18.31
		2510	22.89	22.37	21.05	17.75	23.39	22.87	21.55	18.25
	1 RB low	2560	23.01	22.54	21.27	17.85	23.51	23.04	21.77	18.35
		2535	22.94	22.37	21.15	17.79	23.44	22.87	21.65	18.29
		2510	22.73	22.1	20.95	17.63	23.23	22.60	21.45	18.13
	50% RB mid	2560	22.17	21.22	20.23	17.99	22.67	21.72	20.73	18.49
		2535	22.08	21.18	20.14	17.91	22.58	21.68	20.64	18.41
		2510	22.02	20.99	20.1	17.87	22.52	21.49	20.60	18.37
	100% RB	2560	22.07	21.07	20.14	17.91	22.57	21.57	20.64	18.41
		2535	22.08	21.1	20.18	17.91	22.58	21.60	20.68	18.41
		2510	22	21.04	20.07	17.85	22.50	21.54	20.57	18.35

LTE band 12-ERP

Limits: ≤34.77dBm (3W)

Max ERP: 21.43dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	22.62	21.9	21.99	18.49	20.97	20.25	20.34	16.84
		707.5	22.83	21.92	21.96	18.52	21.18	20.27	20.31	16.87
		699.7	22.82	22.02	21.92	18.12	21.17	20.37	20.27	16.47
	1 RB low	715.3	22.67	22.09	21.73	18.36	21.02	20.44	20.08	16.71
		707.5	22.66	21.99	21.97	18.35	21.01	20.34	20.32	16.70
		699.7	22.87	22.2	21.81	17.99	21.22	20.55	20.16	16.34
	50% RB mid	715.3	22.73	21.45	21.85	18.49	21.08	19.80	20.20	16.84
		707.5	22.75	21.54	21.86	18.25	21.10	19.89	20.21	16.60
		699.7	22.72	21.92	21.8	18.56	21.07	20.27	20.15	16.91
	100% RB	715.3	21.8	20.78	20.71	18.54	20.15	19.13	19.06	16.89
		707.5	21.74	20.78	20.68	17.88	20.09	19.13	19.03	16.23
		699.7	21.79	20.85	20.84	18.1	20.14	19.20	19.19	16.45
3MHz	1 RB high	714.5	22.72	22.06	21.92	18.09	21.07	20.41	20.27	16.44
		707.5	22.75	22.02	21.94	18.4	21.10	20.37	20.29	16.75
		700.5	22.88	22.14	21.86	18.02	21.23	20.49	20.21	16.37
	1 RB low	714.5	22.8	22.24	21.73	18.14	21.15	20.59	20.08	16.49
		707.5	22.84	22.09	21.68	18.42	21.19	20.44	20.03	16.77
		700.5	22.9	22.3	21.89	18.25	21.25	20.65	20.24	16.60
	50% RB mid	714.5	21.97	21.04	20.93	18.42	20.32	19.39	19.28	16.77
		707.5	21.95	21.04	20.9	17.83	20.30	19.39	19.25	16.18
		700.5	21.93	20.97	20.79	18.33	20.28	19.32	19.14	16.68
	100% RB	714.5	21.83	20.87	20.83	18.04	20.18	19.22	19.18	16.39
		707.5	21.81	20.85	20.75	18.14	20.16	19.20	19.10	16.49
		700.5	21.9	20.94	20.82	18.35	20.25	19.29	19.17	16.70
5MHz	1 RB high	713.5	22.77	22.04	21.71	18.47	21.12	20.39	20.06	16.82
		707.5	22.88	22.14	21.91	18.03	21.23	20.49	20.26	16.38
		701.5	22.85	22.13	21.64	17.88	21.20	20.48	19.99	16.23
	1 RB low	713.5	23	22.16	21.86	17.88	21.35	20.51	20.21	16.23
		707.5	22.86	22.1	21.99	18.21	21.21	20.45	20.34	16.56
		701.5	23	22.13	21.92	18.12	21.35	20.48	20.27	16.47
	50% RB mid	713.5	21.87	20.95	20.91	17.95	20.22	19.30	19.26	16.30
		707.5	21.89	20.85	20.82	17.92	20.24	19.20	19.17	16.27
		701.5	21.97	20.91	20.84	18.01	20.32	19.26	19.19	16.36
	100% RB	713.5	21.81	20.92	20.97	18.13	20.16	19.27	19.32	16.48
		707.5	21.8	20.78	20.7	18.55	20.15	19.13	19.05	16.90

		701.5	21.95	20.82	20.94	18.29	20.30	19.17	19.29	16.64
10MHz	1 RB high	711	22.79	22.03	21.84	18.39	21.14	20.38	20.19	16.74
		707.5	22.8	22.06	21.95	17.86	21.15	20.41	20.30	16.21
		704	22.77	22.21	21.15	18.07	21.12	20.56	19.50	16.42
	1 RB low	711	23.08	22.27	21.9	18.55	21.43	20.62	20.25	16.90
		707.5	22.8	22.33	21.93	18.39	21.15	20.68	20.28	16.74
		704	23.07	22.23	21.1	18	21.42	20.58	19.45	16.35
	50% RB mid	711	21.85	20.94	20.99	18.46	20.20	19.29	19.34	16.81
		707.5	21.88	20.94	20.96	17.83	20.23	19.29	19.31	16.18
		704	21.95	21	20.1	18.55	20.30	19.35	18.45	16.90
	100% RB	711	22.01	20.9	20.89	17.89	20.36	19.25	19.24	16.24
		707.5	21.87	20.96	20.9	18.5	20.22	19.31	19.25	16.85
		704	21.97	21.03	19.9	18.45	20.32	19.38	18.25	16.80

LTE band 13- ERP

Limits: ≤34.77 dBm (3W)

Max ERP: 21.28dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	22.74	22.22	21.92	18.04	21.09	20.57	20.27	16.39
		782	22.75	22.1	21.81	18.12	21.10	20.45	20.16	16.47
		779.5	22.92	22.06	21.93	18.05	21.27	20.41	20.28	16.40
	1 RB low	784.5	22.77	22.3	21.85	18.15	21.12	20.65	20.20	16.50
		782	22.82	22.21	21.79	18.52	21.17	20.56	20.14	16.87
		779.5	22.87	22.23	21.89	18.4	21.22	20.58	20.24	16.75
	50% RB mid	784.5	21.92	20.83	20.89	18.58	20.27	19.18	19.24	16.93
		782	21.89	20.94	20.85	18.49	20.24	19.29	19.20	16.84
		779.5	21.93	20.94	20.99	18.55	20.28	19.29	19.34	16.90
	100% RB	784.5	21.84	20.8	20.91	18.22	20.19	19.15	19.26	16.57
		782	21.8	20.89	20.9	18.6	20.15	19.24	19.25	16.95
		779.5	21.94	20.88	20.94	18.07	20.29	19.23	19.29	16.42
10MHz	1 RB high	782	22.89	22.20	22.01	18.05	21.24	20.55	20.36	16.40
	1 RB low	782	22.93	22.29	21.93	18.53	21.28	20.64	20.28	16.88
	50% RB mid	782	21.95	20.96	20.95	18.29	20.30	19.31	19.30	16.64
	100% RB	782	21.93	20.95	20.94	18.53	20.28	19.30	19.29	16.88

LTE band 25- EIRP

Limits: ≤33dBm (2W)

Max ERP: 23.38dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	22.56	21.83	21.65	18.94	23.06	22.33	22.15	19.44
		1882.5	22.64	22.06	21.82	18.58	23.14	22.56	22.32	19.08
		1850.7	22.68	21.96	21.99	18.25	23.18	22.46	22.49	18.75
	1 RB low	1914.3	22.51	21.74	21.86	19.2	23.01	22.24	22.36	19.70
		1882.5	22.64	21.97	21.81	18.63	23.14	22.47	22.31	19.13
		1850.7	22.65	21.89	21.93	18.54	23.15	22.39	22.43	19.04
	50% RB mid	1914.3	22.6	21.76	21.76	18.7	23.10	22.26	22.26	19.20
		1882.5	22.8	21.89	21.82	19.26	23.30	22.39	22.32	19.76
		1850.7	22.63	21.63	21.73	19.11	23.13	22.13	22.23	19.61
	100% RB	1914.3	21.73	20.81	20.61	18.62	22.23	21.31	21.11	19.12
		1882.5	21.75	20.77	20.84	18.29	22.25	21.27	21.34	18.79
		1850.7	21.84	20.93	20.78	18.27	22.34	21.43	21.28	18.77
3MHz	1 RB high	1913.5	22.71	22.16	21.82	18.88	23.21	22.66	22.32	19.38
		1882.5	22.76	22.03	21.86	18.26	23.26	22.53	22.36	18.76
		1851.5	22.86	21.87	21.95	18.26	23.36	22.37	22.45	18.76
	1 RB low	1913.5	22.72	21.98	21.81	19.25	23.22	22.48	22.31	19.75
		1882.5	22.76	22.16	21.87	18.72	23.26	22.66	22.37	19.22
		1851.5	22.83	22.11	21.98	18.51	23.33	22.61	22.48	19.01
	50% RB mid	1913.5	21.71	20.82	20.74	18.3	22.21	21.32	21.24	18.80
		1882.5	21.77	20.92	20.84	19.22	22.27	21.42	21.34	19.72
		1851.5	21.89	20.86	20.83	18.24	22.39	21.36	21.33	18.74
	100% RB	1913.5	21.83	20.74	20.78	18.38	22.33	21.24	21.28	18.88
		1882.5	21.76	20.77	20.68	18.74	22.26	21.27	21.18	19.24
		1851.5	21.89	20.9	20.92	19.02	22.39	21.40	21.42	19.52
5MHz	1 RB high	1912.5	22.6	21.94	21.74	18.31	23.10	22.44	22.24	18.81
		1882.5	22.79	22.15	21.95	18.29	23.29	22.65	22.45	18.79
		1852.5	22.88	22.01	21.98	19.22	23.38	22.51	22.48	19.72
	1 RB low	1912.5	22.63	22.05	21.98	18.47	23.13	22.55	22.48	18.97
		1882.5	22.82	22.15	21.96	18.51	23.32	22.65	22.46	19.01
		1852.5	22.78	22.07	21.97	18.68	23.28	22.57	22.47	19.18
	50% RB mid	1912.5	21.75	20.81	20.82	18.46	22.25	21.31	21.32	18.96
		1882.5	21.88	20.95	20.87	18.28	22.38	21.45	21.37	18.78
		1852.5	21.87	20.97	20.88	19.03	22.37	21.47	21.38	19.53
	100%	1912.5	21.78	20.74	20.77	18.62	22.28	21.24	21.27	19.12
		1882.5	21.77	20.84	20.76	19.11	22.27	21.34	21.26	19.61

	RB	1852.5	21.92	20.89	20.9	18.25	22.42	21.39	21.40	18.75
10MHz	1 RB high	1910	22.85	22.04	21.73	18.56	23.35	22.54	22.23	19.06
		1882.5	22.65	22.21	21.83	18.73	23.15	22.71	22.33	19.23
		1855	22.76	22.09	21.99	19.13	23.26	22.59	22.49	19.63
	1 RB low	1910	22.72	22.14	21.95	18.72	23.22	22.64	22.45	19.22
		1882.5	22.62	22.23	21.83	18.64	23.12	22.73	22.33	19.14
		1855	22.83	22.23	21.99	18.65	23.33	22.73	22.49	19.15
	50% RB mid	1910	21.9	20.85	20.86	18.47	22.40	21.35	21.36	18.97
		1882.5	21.76	20.91	20.94	18.54	22.26	21.41	21.44	19.04
		1855	21.91	21	20.93	19.27	22.41	21.50	21.43	19.77
	100 % RB	1910	21.76	20.81	20.8	18.28	22.26	21.31	21.30	18.78
		1882.5	21.8	20.87	20.86	19.29	22.30	21.37	21.36	19.79
		1855	21.86	20.95	20.88	18.24	22.36	21.45	21.38	18.74
15MHz	1 RB high	1907.5	22.57	22.03	21.99	18.27	23.07	22.53	22.49	18.77
		1882.5	22.59	22.03	21.94	19.23	23.09	22.53	22.44	19.73
		1857.5	22.64	21.97	21.91	18.46	23.14	22.47	22.41	18.96
	1 RB low	1907.5	22.63	21.95	21.9	19.09	23.13	22.45	22.40	19.59
		1882.5	22.65	21.99	21.9	18.51	23.15	22.49	22.40	19.01
		1857.5	22.61	22.03	21.87	18.7	23.11	22.53	22.37	19.20
	50% RB mid	1907.5	21.59	20.72	20.63	18.79	22.09	21.22	21.13	19.29
		1882.5	21.76	20.74	20.72	19.2	22.26	21.24	21.22	19.70
		1857.5	21.81	20.79	20.81	18.81	22.31	21.29	21.31	19.31
	100 % RB	1907.5	21.65	20.79	20.71	19.14	22.15	21.29	21.21	19.64
		1882.5	21.7	20.8	20.73	18.83	22.20	21.30	21.23	19.33
		1857.5	21.71	20.78	20.8	19.21	22.21	21.28	21.30	19.71
20MHz	1 RB high	1905	22.5	22.04	21.94	18.74	23.00	22.54	22.44	19.24
		1882.5	22.6	21.87	21.9	18.25	23.10	22.37	22.40	18.75
		1860	22.52	21.97	21.85	18.33	23.02	22.47	22.35	18.83
	1 RB low	1905	22.61	22.09	21.86	18.68	23.11	22.59	22.36	19.18
		1882.5	22.61	21.95	21.86	19.14	23.11	22.45	22.36	19.64
		1860	22.56	22.15	21.76	18.63	23.06	22.65	22.26	19.13
	50% RB mid	1905	21.76	20.8	20.8	18.85	22.26	21.30	21.30	19.35
		1882.5	21.68	20.69	20.68	19.04	22.18	21.19	21.18	19.54
		1860	21.84	20.83	20.75	18.57	22.34	21.33	21.25	19.07
	100 % RB	1905	21.74	20.82	20.78	19.06	22.24	21.32	21.28	19.56
		1882.5	21.71	20.69	20.74	18.7	22.21	21.19	21.24	19.20
		1860	21.77	20.83	20.85	18.95	22.27	21.33	21.35	19.45

LTE band 26(814MHz~824MHz)- ERP

Limits: ≤38.45dBm (100W)

Max ERP: 21.57dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.01	22.14	21.03	18.19	21.36	20.49	19.38	16.54
		819	23.01	22.18	21.03	18.1	21.36	20.53	19.38	16.45
		814.7	23.02	22.04	21.04	18.2	21.37	20.39	19.39	16.55
	1 RB low	823.3	22.99	22.1	20.92	18.12	21.34	20.45	19.27	16.47
		819	23	22.14	20.97	18.11	21.35	20.49	19.32	16.46
		814.7	22.99	22.09	21.04	18.25	21.34	20.44	19.39	16.60
	50% RB mid	823.3	22.97	22.32	21.24	18.16	21.32	20.67	19.59	16.51
		819	23	22.33	21.23	18.09	21.35	20.68	19.58	16.44
		814.7	23.12	22.42	21.29	18.13	21.47	20.77	19.64	16.48
	100% RB	823.3	22.16	21.29	20.44	18.1	20.51	19.64	18.79	16.45
		819	22.04	21.25	20.4	18.07	20.39	19.60	18.75	16.42
		814.7	22.1	21.35	20.45	18.19	20.45	19.70	18.80	16.54
3MHz	1 RB high	822.5	23.06	22.18	21.02	18.14	21.41	20.53	19.37	16.49
		819	23.04	22.21	21.01	18.13	21.39	20.56	19.36	16.48
		815.5	23.12	22.27	21.11	18.2	21.47	20.62	19.46	16.55
	1 RB low	822.5	23.1	22.22	20.99	18.09	21.45	20.57	19.34	16.44
		819	23.1	22.17	21.1	18.14	21.45	20.52	19.45	16.49
		815.5	23.2	22.33	21.21	18.24	21.55	20.68	19.56	16.59
	50% RB mid	822.5	22.17	21.29	20.15	18.21	20.52	19.64	18.50	16.56
		819	22.1	21.22	20.07	18.22	20.45	19.57	18.42	16.57
		815.5	22.2	21.29	20.13	18.27	20.55	19.64	18.48	16.62
	100% RB	822.5	22.17	21.16	20.25	18.19	20.52	19.51	18.60	16.54
		819	22.15	21.11	20.18	18.17	20.50	19.46	18.53	16.52
		815.5	22.18	21.15	20.26	18.21	20.53	19.50	18.61	16.56
5MHz	1 RB high	821.5	23.11	22.21	21.28	18.24	21.46	20.56	19.63	16.59
		819	23.11	22.19	21.29	18.21	21.46	20.54	19.64	16.56
		816.5	23.13	22.21	21.34	18.24	21.48	20.56	19.69	16.59
	1 RB low	821.5	23.11	22.25	21.26	18.21	21.46	20.60	19.61	16.56
		819	23.15	22.27	21.34	18.26	21.50	20.62	19.69	16.61
		816.5	23.21	22.34	21.43	18.34	21.56	20.69	19.78	16.69
	50% RB mid	821.5	22.25	21.27	20.3	18.34	20.60	19.62	18.65	16.69
		819	22.19	21.24	20.27	18.29	20.54	19.59	18.62	16.64
		816.5	22.2	21.34	20.29	18.3	20.55	19.69	18.64	16.65
	100% RB	821.5	22.24	21.18	20.26	18.26	20.59	19.53	18.61	16.61
		819	22.18	21.16	20.21	18.25	20.53	19.51	18.56	16.60

		816.5	22.23	21.2	20.22	18.19	20.58	19.55	18.57	16.54
10MHz	1 RB high	819	23.1	22.3	21.08	18.23	21.45	20.65	19.43	16.58
	1 RB low	819	23.22	22.31	21.15	18.24	21.57	20.66	19.50	16.59
	50% RB mid	819	22.23	21.39	20.33	18.34	20.58	19.74	18.68	16.69
	100% RB	819	22.26	21.32	20.25	18.29	20.61	19.67	18.60	16.64

LTE band 26(824MHz~849MHz)- ERP

Limits: ≤38.45dBm (7W)

Max ERP: 21.51dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.81	21.95	20.83	18.04	21.16	20.30	19.18	16.39
		836.5	22.89	21.97	21.02	18.06	21.24	20.32	19.37	16.41
		824.7	22.86	21.99	21.46	18.15	21.21	20.34	19.81	16.50
	1 RB low	848.3	22.86	22.05	20.9	18.12	21.21	20.40	19.25	16.47
		836.5	22.93	21.94	20.93	18.01	21.28	20.29	19.28	16.36
		824.7	22.93	21.99	21.44	18.12	21.28	20.34	19.79	16.47
	50% RB mid	848.3	22.86	22.19	20.97	18.02	21.21	20.54	19.32	16.37
		836.5	22.99	22.25	21.06	17.98	21.34	20.60	19.41	16.33
		824.7	23.06	22.33	21.1	18.23	21.41	20.68	19.45	16.58
	100% RB	848.3	21.99	21.16	20.08	18.07	20.34	19.51	18.43	16.42
		836.5	22.03	20.85	20.08	18.07	20.38	19.20	18.43	16.42
		824.7	22.1	21.3	20.19	18.2	20.45	19.65	18.54	16.55
3MHz	1 RB high	847.5	22.87	22.02	20.87	18.01	21.22	20.37	19.22	16.36
		836.5	23.04	22.13	21.03	18.17	21.39	20.48	19.38	16.52
		825.5	23.05	22.14	21.08	18.19	21.40	20.49	19.43	16.54
	1 RB low	847.5	22.94	22.03	20.97	18.08	21.29	20.38	19.32	16.43
		836.5	23.05	22.15	21.02	18.09	21.40	20.50	19.37	16.44
		825.5	23.11	22.21	21.06	18.13	21.46	20.56	19.41	16.48
	50% RB mid	847.5	22.03	21.11	20	18.12	20.38	19.46	18.35	16.47
		836.5	22.14	21.14	20.11	18.15	20.49	19.49	18.46	16.50
		825.5	22.16	21.22	20.14	18.22	20.51	19.57	18.49	16.57
	100% RB	847.5	22.02	21.03	20.09	18.07	20.37	19.38	18.44	16.42
		836.5	22.04	21.06	20.13	18.11	20.39	19.41	18.48	16.46
		825.5	22.16	21.13	20.25	18.2	20.51	19.48	18.60	16.55
5MHz	1 RB high	846.5	22.92	22.07	21.16	18.1	21.27	20.42	19.51	16.45
		836.5	23.03	22.16	21.26	18.32	21.38	20.51	19.61	16.67
		826.5	23.11	22.27	21.31	18.29	21.46	20.62	19.66	16.64
	1 RB low	846.5	23.03	22.16	21.22	18.23	21.38	20.51	19.57	16.58
		836.5	23.08	22.17	21.23	18.29	21.43	20.52	19.58	16.64
		826.5	23.13	22.24	21.28	18.25	21.48	20.59	19.63	16.60
	50% RB mid	846.5	22.1	21.19	20.17	18.22	20.45	19.54	18.52	16.57
		836.5	22.21	21.18	20.17	18.24	20.56	19.53	18.52	16.59
		826.5	22.21	21.28	20.31	18.37	20.56	19.63	18.66	16.72
	100% RB	846.5	22.09	21.06	20.16	18.15	20.44	19.41	18.51	16.50
		836.5	22.11	21.08	20.11	18.16	20.46	19.43	18.46	16.51

		826.5	22.23	21.23	20.25	18.27	20.58	19.58	18.60	16.62
10MHz	1 RB high	844	23	22.08	21.29	18.07	21.35	20.43	19.64	16.42
		836.5	23.06	22.14	21.01	18.17	21.41	20.49	19.36	16.52
		829	23.09	22.08	20.98	18.16	21.44	20.43	19.33	16.51
	1 RB low	844	23.06	22.1	21.34	18.11	21.41	20.45	19.69	16.46
		836.5	23.16	22.25	21.06	18.2	21.51	20.60	19.41	16.55
		829	23.1	22.31	21.02	18.12	21.45	20.66	19.37	16.47
	50% RB mid	844	22.12	21.17	20.23	18.24	20.47	19.52	18.58	16.59
		836.5	22.24	21.26	20.34	18.28	20.59	19.61	18.69	16.63
		829	22.28	21.37	20.27	18.36	20.63	19.72	18.62	16.71
	100% RB	844	22.16	21.19	20.13	18.14	20.51	19.54	18.48	16.49
		836.5	22.17	21.2	20.18	18.2	20.52	19.55	18.53	16.55
		829	22.27	21.3	20.28	18.28	20.62	19.65	18.63	16.63
15MHz	1 RB high	841.5	22.84	22.32	21.32	18.29	21.19	20.67	19.67	16.64
		836.5	22.91	22.39	21.37	18.34	21.26	20.74	19.72	16.69
		831.5	22.88	22.55	21.33	18.32	21.23	20.90	19.68	16.67
	1 RB low	841.5	23.01	22.47	21.39	18.33	21.36	20.82	19.74	16.68
		836.5	23.08	22.54	21.43	18.4	21.43	20.89	19.78	16.75
		831.5	22.95	22.61	21.36	18.29	21.30	20.96	19.71	16.64
	50% RB mid	841.5	22.03	20.95	20.07	17.95	20.38	19.30	18.42	16.30
		836.5	22.08	21	20.11	18.08	20.43	19.35	18.46	16.43
		831.5	22.1	21.02	20.13	18.08	20.45	19.37	18.48	16.43
	100% RB	841.5	21.99	21.06	20.08	17.98	20.34	19.41	18.43	16.33
		836.5	22.03	21.08	20.06	18.12	20.38	19.43	18.41	16.47
		831.5	22.04	21.05	20.1	18.07	20.39	19.40	18.45	16.42

LTE band 41- EIRP

Limits: ≤33 dBm (2W)

Max EIRP: 25.59dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	24.93	24.07	24.31	19.71	25.43	24.57	24.81	20.21
		2593	25	24.3	24.22	19.69	25.50	24.80	24.72	20.19
		2498.5	24.89	24.11	24.13	19.76	25.39	24.61	24.63	20.26
	1 RB low	2687.5	24.95	24.22	24.28	19.99	25.45	24.72	24.78	20.49
		2593	24.95	24.23	24.19	19.87	25.45	24.73	24.69	20.37
		2498.5	24.87	24.06	24.11	19.55	25.37	24.56	24.61	20.05
	50% RB mid	2687.5	24.06	23.09	23.08	20.06	24.56	23.59	23.58	20.56
		2593	24.1	23.18	23.19	20.03	24.60	23.68	23.69	20.53
		2498.5	23.97	22.97	22.96	20.01	24.47	23.47	23.46	20.51
	100% RB	2687.5	24.03	23.12	23.01	20.16	24.53	23.62	23.51	20.66
		2593	24.09	23.16	23.07	20.06	24.59	23.66	23.57	20.56
		2498.5	23.89	22.98	22.91	19.91	24.39	23.48	23.41	20.41
10MHz	1 RB high	2685	24.87	24.18	24.06	19.77	25.37	24.68	24.56	20.27
		2593	24.95	24.2	24.1	19.78	25.45	24.70	24.60	20.28
		2501	24.82	24.2	24.05	19.67	25.32	24.70	24.55	20.17
	1 RB low	2685	25.09	24.39	24.34	19.92	25.59	24.89	24.84	20.42
		2593	25.07	24.37	24.21	19.9	25.57	24.87	24.71	20.40
		2501	24.87	24.18	24.08	19.65	25.37	24.68	24.58	20.15
	50% RB mid	2685	24	23.11	23.12	20.12	24.50	23.61	23.62	20.62
		2593	24.14	23.2	23.15	19.86	24.64	23.70	23.65	20.36
		2501	23.98	23.05	22.96	19.98	24.48	23.55	23.46	20.48
	100% RB	2685	24.05	23.14	23.05	20.16	24.55	23.64	23.55	20.66
		2593	24.16	23.2	23.11	20.11	24.66	23.70	23.61	20.61
		2501	23.98	23.03	22.93	20.02	24.48	23.53	23.43	20.52
15MHz	1 RB high	2682.5	24.7	24.1	24.06	19.67	25.20	24.60	24.56	20.17
		2593	24.78	24.12	24.05	19.63	25.28	24.62	24.55	20.13
		2503.5	24.67	24.05	24.03	19.74	25.17	24.55	24.53	20.24
	1 RB low	2682.5	24.9	24.27	24.23	20.01	25.40	24.77	24.73	20.51
		2593	24.87	24.26	24.17	19.88	25.37	24.76	24.67	20.38
		2503.5	24.59	24	23.99	19.71	25.09	24.50	24.49	20.21
	50% RB mid	2682.5	24.02	23.02	23.01	20.09	24.52	23.52	23.51	20.59
		2593	23.94	22.97	22.98	19.9	24.44	23.47	23.48	20.40
		2503.5	23.85	22.83	22.87	20.01	24.35	23.33	23.37	20.51
	100% RB	2682.5	23.9	22.97	23.01	20.09	24.40	23.47	23.51	20.59
		2593	23.95	23.01	23.03	20.1	24.45	23.51	23.53	20.60

		2503.5	23.82	22.91	22.92	20.08	24.32	23.41	23.42	20.58
20MHz	1 RB high	2680	24.68	24.08	24.08	19.74	25.18	24.58	24.58	20.24
		2593	24.75	24.14	24.02	19.69	25.25	24.64	24.52	20.19
		2506	24.72	24.11	24.01	19.68	25.22	24.61	24.51	20.18
	1 RB low	2680	24.95	24.3	24.3	19.92	25.45	24.80	24.80	20.42
		2593	24.95	24.34	24.22	19.85	25.45	24.84	24.72	20.35
		2506	24.6	23.97	23.93	19.61	25.10	24.47	24.43	20.11
	50% RB mid	2680	24.03	23.12	23.03	20.06	24.53	23.62	23.53	20.56
		2593	23.96	23.05	22.91	19.96	24.46	23.55	23.41	20.46
		2506	23.88	22.92	22.86	19.92	24.38	23.42	23.36	20.42
	100% RB	2680	23.98	23.04	23.08	20.11	24.48	23.54	23.58	20.61
		2593	23.99	23.01	23.04	20.07	24.49	23.51	23.54	20.57
		2506	23.87	22.96	22.95	19.99	24.37	23.46	23.45	20.49

LTE band 42- EIRP

Limits: ≤30 dBm (1W)

Max EIRP: 23.74dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3452.5	23.2	22.57	21.81	18.56	23.70	23.07	22.31	19.06
		3500	23.18	22.64	21.5	18.4	23.68	23.14	22.00	18.90
		3547.5	23.19	22.37	21.5	18.47	23.69	22.87	22.00	18.97
	1 RB low	3452.5	23.23	22.69	21.83	18.44	23.73	23.19	22.33	18.94
		3500	23.22	22.56	21.31	18.43	23.72	23.06	21.81	18.93
		3547.5	23.22	22.35	21.45	18.6	23.72	22.85	21.95	19.10
	50% RB mid	3452.5	22.2	21.24	20.15	18.28	22.70	21.74	20.65	18.78
		3500	22.15	21.3	20.22	18.32	22.65	21.80	20.72	18.82
		3547.5	22.27	21.47	20.24	18.3	22.77	21.97	20.74	18.80
	100% RB	3452.5	22.05	21.1	20.11	18.16	22.55	21.60	20.61	18.66
		3500	22.12	21.16	20.18	18.18	22.62	21.66	20.68	18.68
		3547.5	22.26	21.32	20.24	18.27	22.76	21.82	20.74	18.77
10MHz	1 RB high	3455	23.13	22.27	21.23	18.32	23.63	22.77	21.73	18.82
		3500	23.04	22.25	21.17	18.3	23.54	22.75	21.67	18.80
		3545	23.22	22.41	21.27	18.35	23.72	22.91	21.77	18.85
	1 RB low	3455	23.17	22.3	21.42	18.38	23.67	22.80	21.92	18.88
		3500	23.15	22.32	21.4	18.35	23.65	22.82	21.90	18.85
		3545	23.24	22.43	21.33	18.4	23.74	22.93	21.83	18.90
	50% RB mid	3455	22.16	21.12	20.22	18.16	22.66	21.62	20.72	18.66
		3500	22.15	21.18	20.26	18.22	22.65	21.68	20.76	18.72
		3545	22.3	21.37	20.29	18.3	22.80	21.87	20.79	18.80
	100% RB	3455	22.11	21.15	20.2	18.16	22.61	21.65	20.70	18.66
		3500	22.18	21.23	20.2	18.2	22.68	21.73	20.70	18.70
		3545	22.3	21.39	20.29	18.3	22.80	21.89	20.79	18.80
15MHz	1 RB high	3457.5	22.9	22.18	21.35	18.35	23.40	22.68	21.85	18.85
		3500	22.91	22.17	21.32	18.3	23.41	22.67	21.82	18.80
		3542.5	22.97	22.3	21.34	18.41	23.47	22.80	21.84	18.91
	1 RB low	3457.5	22.92	22.16	21.37	18.24	23.42	22.66	21.87	18.74
		3500	22.86	22.19	21.3	18.19	23.36	22.69	21.80	18.69
		3542.5	23.01	22.29	21.45	18.34	23.51	22.79	21.95	18.84
	50% RB mid	3457.5	21.98	20.95	19.99	18	22.48	21.45	20.49	18.50
		3500	21.99	21.03	19.98	18.05	22.49	21.53	20.48	18.55
		3542.5	22.14	21.18	20.1	18.14	22.64	21.68	20.60	18.64
	100% RB	3457.5	21.95	21	20.03	18.05	22.45	21.50	20.53	18.55
		3500	22	21.01	20.04	18.07	22.50	21.51	20.54	18.57

		3542.5	22.12	21.13	20.17	18.18	22.62	21.63	20.67	18.68
20MHz	1 RB high	3460	22.94	22.33	21.41	18.57	23.44	22.83	21.91	19.07
		3500	22.99	22.32	21.36	18.54	23.49	22.82	21.86	19.04
		3540	22.97	22.41	21.43	18.62	23.47	22.91	21.93	19.12
	1 RB low	3460	23	22.32	21.24	18.62	23.50	22.82	21.74	19.12
		3500	22.98	22.32	21.17	18.57	23.48	22.82	21.67	19.07
		3540	23	22.28	21.24	18.66	23.50	22.78	21.74	19.16
	50% RB mid	3460	22	21.07	20.1	18.14	22.50	21.57	20.60	18.64
		3500	21.99	21.06	20.06	18.09	22.49	21.56	20.56	18.59
		3540	22.1	21.17	20.16	18.15	22.60	21.67	20.66	18.65
	100% RB	3460	22.02	21.07	20.11	18.09	22.52	21.57	20.61	18.59
		3500	22.02	21.03	20.14	18.08	22.52	21.53	20.64	18.58
		3540	22.15	21.15	20.19	18.22	22.65	21.65	20.69	18.72

LTE band 48- EIRP

Limits: ≤23 dBm/10MHz

Max EIRP: 22.37 dBm/10MHz

Bandwidth	RB size/ offset	Frequency (MHz)	Power (dBm/10MHz)				EIRP(dBm/10MHz) (GT – LC = -1.50)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.85	23.33	21.99	19.17	22.35	21.83	20.49	17.67
		3625	23.63	23.07	21.72	18.93	22.13	21.57	20.22	17.43
		3552.5	23.81	23.15	21.93	18.85	22.31	21.65	20.43	17.35
	1 RB low	3697.5	23.83	23.15	22.02	19.02	22.33	21.65	20.52	17.52
		3625	23.58	23.14	21.78	18.85	22.08	21.64	20.28	17.35
		3552.5	23.76	23.12	21.81	18.88	22.26	21.62	20.31	17.38
	100 % RB	3697.5	22.73	21.76	20.63	18.75	21.23	20.26	19.13	17.25
		3625	22.47	21.55	20.68	18.57	20.97	20.05	19.18	17.07
		3552.5	22.66	21.64	20.65	18.76	21.16	20.14	19.15	17.26
10MHz	1 RB high	3695	23.87	23.16	22.06	19.08	22.37	21.66	20.56	17.58
		3625	23.66	22.78	21.85	19.04	22.16	21.28	20.35	17.54
		3555	23.48	22.86	21.65	18.65	21.98	21.36	20.15	17.15
	1 RB low	3695	23.86	23.09	21.81	18.98	22.36	21.59	20.31	17.48
		3625	23.64	23.03	21.79	18.82	22.14	21.53	20.29	17.32
		3555	23.77	23.02	21.95	18.92	22.27	21.52	20.45	17.42
	100 % RB	3695	22.18	21.27	20.26	18.27	20.68	19.77	18.76	16.77
		3625	22.11	21.13	20.14	18.13	20.61	19.63	18.64	16.63
		3555	22.04	20.99	19.98	18.08	20.54	19.49	18.48	16.58
15MHz	1 RB high	3692.5	23.72	22.86	21.85	19.04	22.22	21.36	20.35	17.54
		3625	23.61	22.80	21.78	19.01	22.11	21.30	20.28	17.51
		3557.5	23.16	22.21	21.14	18.36	21.66	20.71	19.64	16.86
	1 RB low	3692.5	23.32	22.63	21.40	18.56	21.82	21.13	19.90	17.06
		3625	23.47	22.86	21.62	18.89	21.97	21.36	20.12	17.39
		3557.5	23.57	22.70	21.64	18.94	22.07	21.20	20.14	17.44
	100 % RB	3692.5	21.11	20.21	19.13	17.10	19.61	18.71	17.63	15.60
		3625	21.13	20.22	19.17	17.09	19.63	18.72	17.67	15.59
		3557.5	20.99	20.09	19.11	17.17	19.49	18.59	17.61	15.67
20MHz	1 RB high	3690	23.55	22.89	21.78	19.07	22.05	21.39	20.28	17.57
		3625	23.57	22.77	21.76	18.87	22.07	21.27	20.26	17.37
		3560	22.87	22.07	21.17	18.19	21.37	20.57	19.67	16.69
	1 RB low	3690	23.24	22.59	21.47	18.45	21.74	21.09	19.97	16.95
		3625	23.54	22.68	21.70	18.83	22.04	21.18	20.20	17.33
		3560	23.58	22.91	21.59	18.80	22.08	21.41	20.09	17.30
	100 % RB	3690	20.33	19.34	18.41	16.37	18.83	17.84	16.91	14.87
		3625	20.28	19.41	18.35	16.33	18.78	17.91	16.85	14.83
		3560	19.97	19.10	18.14	16.11	18.47	17.60	16.64	14.61

LTE band 66- EIRP

Limits: ≤30dBm (1W)

Max EIRP: 23.24dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	22.33	21.68	21.65	18.96	22.83	22.18	22.15	19.46
		1745	22.47	21.82	21.81	18.42	22.97	22.32	22.31	18.92
		1710.7	22.4	21.92	21.65	18.83	22.90	22.42	22.15	19.33
	1 RB low	1779.3	22.39	21.63	21.58	18.87	22.89	22.13	22.08	19.37
		1745	22.46	21.85	21.82	18.85	22.96	22.35	22.32	19.35
		1710.7	22.42	21.62	21.72	18.7	22.92	22.12	22.22	19.20
	50% RB mid	1779.3	22.54	21.65	21.48	18.37	23.04	22.15	21.98	18.87
		1745	22.61	21.75	21.69	18.34	23.11	22.25	22.19	18.84
		1710.7	22.58	21.6	21.61	18.77	23.08	22.10	22.11	19.27
	100% RB	1779.3	21.54	20.6	20.36	18.97	22.04	21.10	20.86	19.47
		1745	21.65	20.74	20.57	18.9	22.15	21.24	21.07	19.40
		1710.7	21.61	20.6	20.51	18.38	22.11	21.10	21.01	18.88
3MHz	1 RB high	1778.5	22.47	21.89	21.62	18.73	22.97	22.39	22.12	19.23
		1745	22.69	21.86	21.78	18.9	23.19	22.36	22.28	19.40
		1711.5	22.62	21.96	21.8	18.94	23.12	22.46	22.30	19.44
	1 RB low	1778.5	22.46	21.81	21.66	18.55	22.96	22.31	22.16	19.05
		1745	22.61	21.96	21.7	18.62	23.11	22.46	22.20	19.12
		1711.5	22.6	21.9	21.7	18.63	23.10	22.40	22.20	19.13
	50% RB mid	1778.5	21.64	20.68	20.76	18.65	22.14	21.18	21.26	19.15
		1745	21.69	20.72	20.72	18.53	22.19	21.22	21.22	19.03
		1711.5	21.72	20.78	20.77	18.95	22.22	21.28	21.27	19.45
	100% RB	1778.5	21.57	20.58	20.61	18.62	22.07	21.08	21.11	19.12
		1745	21.65	20.57	20.68	18.76	22.15	21.07	21.18	19.26
		1711.5	21.7	20.66	20.66	18.72	22.20	21.16	21.16	19.22
5MHz	1 RB high	1777.5	22.51	21.91	21.69	18.41	23.01	22.41	22.19	18.91
		1745	22.6	21.92	21.73	18.4	23.10	22.42	22.23	18.90
		1712.5	22.74	21.88	21.79	18.37	23.24	22.38	22.29	18.87
	1 RB low	1777.5	22.45	21.89	21.66	18.82	22.95	22.39	22.16	19.32
		1745	22.6	22.03	21.76	18.78	23.10	22.53	22.26	19.28
		1712.5	22.54	22.05	21.79	18.99	23.04	22.55	22.29	19.49
	50% RB mid	1777.5	21.64	20.69	20.59	18.9	22.14	21.19	21.09	19.40
		1745	21.69	20.67	20.68	18.58	22.19	21.17	21.18	19.08
		1712.5	21.73	20.75	20.72	18.39	22.23	21.25	21.22	18.89
	100% RB	1777.5	21.63	20.6	20.63	18.85	22.13	21.10	21.13	19.35
		1745	21.61	20.64	20.6	18.39	22.11	21.14	21.10	18.89

		1712.5	21.77	20.7	20.66	18.58	22.27	21.20	21.16	19.08
10MHz	1 RB high	1775	22.35	22.09	21.8	18.45	22.85	22.59	22.30	18.95
		1745	22.63	22.04	21.8	18.45	23.13	22.54	22.30	18.95
		1715	22.67	22.06	21.84	18.88	23.17	22.56	22.34	19.38
	1 RB low	1775	22.57	22.11	21.73	18.94	23.07	22.61	22.23	19.44
		1745	22.57	22.13	21.78	18.86	23.07	22.63	22.28	19.36
		1715	22.54	22.18	21.75	18.33	23.04	22.68	22.25	18.83
	50% RB mid	1775	21.53	20.61	20.53	18.97	22.03	21.11	21.03	19.47
		1745	21.73	20.75	20.74	18.51	22.23	21.25	21.24	19.01
		1715	21.78	20.7	20.75	18.61	22.28	21.20	21.25	19.11
	100% RB	1775	21.52	20.62	20.54	18.35	22.02	21.12	21.04	18.85
		1745	21.63	20.67	20.56	18.87	22.13	21.17	21.06	19.37
		1715	21.76	20.71	20.58	18.4	22.26	21.21	21.08	18.90
15MHz	1 RB high	1772.5	22.28	21.93	22	18.62	22.78	22.43	22.50	19.12
		1745	22.39	21.89	21.82	18.66	22.89	22.39	22.32	19.16
		1717.5	22.43	21.98	21.94	18.71	22.93	22.48	22.44	19.21
	1 RB low	1772.5	22.42	21.75	21.89	18.42	22.92	22.25	22.39	18.92
		1745	22.53	21.72	21.87	18.55	23.03	22.22	22.37	19.05
		1717.5	22.37	21.94	21.97	18.88	22.87	22.44	22.47	19.38
	50% RB mid	1772.5	21.53	20.59	20.63	18.45	22.03	21.09	21.13	18.95
		1745	21.59	20.52	20.61	18.41	22.09	21.02	21.11	18.91
		1717.5	21.6	20.6	20.6	18.81	22.10	21.10	21.10	19.31
	100% RB	1772.5	21.47	20.47	20.5	18.99	21.97	20.97	21.00	19.49
		1745	21.63	20.65	20.55	18.55	22.13	21.15	21.05	19.05
		1717.5	21.55	20.57	20.57	18.59	22.05	21.07	21.07	19.09
20MHz	1 RB high	1770	22.42	21.99	21.87	18.72	22.92	22.49	22.37	19.22
		1745	22.41	21.9	21.77	18.82	22.91	22.40	22.27	19.32
		1720	22.51	22.02	21.85	18.33	23.01	22.52	22.35	18.83
	1 RB low	1770	22.4	21.89	21.89	18.36	22.90	22.39	22.39	18.86
		1745	22.5	21.97	21.93	18.86	23.00	22.47	22.43	19.36
		1720	22.41	21.77	21.89	18.34	22.91	22.27	22.39	18.84
	50% RB mid	1770	21.59	20.59	20.52	19	22.09	21.09	21.02	19.50
		1745	21.61	20.58	20.56	18.45	22.11	21.08	21.06	18.95
		1720	21.66	20.61	20.6	18.85	22.16	21.11	21.10	19.35
	100% RB	1770	21.51	20.58	20.6	18.83	22.01	21.08	21.10	19.33
		1745	21.56	20.57	20.57	18.98	22.06	21.07	21.07	19.48
		1720	21.71	20.54	20.63	18.89	22.21	21.04	21.13	19.39

LTE band 71- ERP

Limits: ≤34.77 dBm (3W)

Max ERP: 21.48dBm

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = 0.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.82	22.1	21.28	17.49	21.17	20.45	19.63	15.84
		680.5	22.82	22.18	21.18	17.52	21.17	20.53	19.53	15.87
		665.5	22.84	22.23	20.96	18.01	21.19	20.58	19.31	16.36
	1 RB low	695.5	22.83	22.22	21.1	17.39	21.18	20.57	19.45	15.74
		680.5	22.99	22.24	21.13	17.35	21.34	20.59	19.48	15.70
		665.5	23.08	22.28	21.24	17.68	21.43	20.63	19.59	16.03
	50% RB mid	695.5	21.96	20.96	20.01	17.97	20.31	19.31	18.36	16.32
		680.5	21.98	20.99	20.08	17.45	20.33	19.34	18.43	15.80
		665.5	22.03	21.03	20.09	17.4	20.38	19.38	18.44	15.75
	100% RB	695.5	21.83	20.91	20.92	17.79	20.18	19.26	19.27	16.14
		680.5	21.91	20.97	19.94	17.48	20.26	19.32	18.29	15.83
		665.5	22	20.99	19.95	17.79	20.35	19.34	18.30	16.14
10MHz	1 RB high	693	22.83	22.25	21.96	18	21.18	20.60	20.31	16.35
		680.5	23.01	22.11	21.01	17.41	21.36	20.46	19.36	15.76
		668	22.92	22.23	21.19	17.36	21.27	20.58	19.54	15.71
	1 RB low	693	23.13	22.39	21.99	17.35	21.48	20.74	20.34	15.70
		680.5	23.02	22.16	20.91	17.77	21.37	20.51	19.26	16.12
		668	23.03	22.54	21.16	17.88	21.38	20.89	19.51	16.23
	50% RB mid	693	21.9	20.93	20.95	17.86	20.25	19.28	19.30	16.21
		680.5	21.91	20.98	20.01	17.34	20.26	19.33	18.36	15.69
		668	22.04	20.98	19.99	17.95	20.39	19.33	18.34	16.30
	100% RB	693	21.96	20.91	20.94	17.95	20.31	19.26	19.29	16.30
		680.5	21.99	21.05	19.95	17.42	20.34	19.40	18.30	15.77
		668	21.93	20.99	20	17.74	20.28	19.34	18.35	16.09
15MHz	1 RB high	690.5	22.66	21.88	21.78	17.46	21.01	20.23	20.13	15.81
		680.5	22.68	21.96	21.81	17.34	21.03	20.31	20.16	15.69
		670.5	22.66	21.87	21.87	17.88	21.01	20.22	20.22	16.23
	1 RB low	690.5	22.72	22.01	21.96	17.69	21.07	20.36	20.31	16.04
		680.5	22.84	22.2	21.92	17.94	21.19	20.55	20.27	16.29
		670.5	22.74	22.19	21.09	17.77	21.09	20.54	19.44	16.12
	50% RB mid	690.5	21.78	20.81	20.8	17.4	20.13	19.16	19.15	15.75
		680.5	21.77	20.73	20.86	17.43	20.12	19.08	19.21	15.78
		670.5	21.81	20.9	20.86	17.55	20.16	19.25	19.21	15.90
	100% RB	690.5	21.74	20.73	20.8	17.49	20.09	19.08	19.15	15.84
		680.5	21.73	20.8	20.86	18.06	20.08	19.15	19.21	16.41

		670.5	21.8	20.85	21	17.81	20.15	19.20	19.35	16.16
20MHz	1 RB high	688	22.58	21.96	21.03	17.53	20.93	20.31	19.38	15.88
		680.5	22.53	21.96	20.96	17.89	20.88	20.31	19.31	16.24
		673	22.7	21.91	20.92	18.05	21.05	20.26	19.27	16.40
	1 RB low	688	22.71	22.16	21.03	17.67	21.06	20.51	19.38	16.02
		680.5	22.73	22.18	21.03	17.74	21.08	20.53	19.38	16.09
		673	22.81	22.06	21.08	17.83	21.16	20.41	19.43	16.18
	50% RB mid	688	21.83	20.79	19.8	17.83	20.18	19.14	18.15	16.18
		680.5	21.77	20.76	19.8	17.92	20.12	19.11	18.15	16.27
		673	21.81	20.92	19.85	17.99	20.16	19.27	18.20	16.34
	100% RB	688	21.78	20.83	19.8	17.87	20.13	19.18	18.15	16.22
		680.5	21.76	20.78	19.78	17.95	20.11	19.13	18.13	16.30
		673	21.85	20.97	19.92	17.44	20.20	19.32	18.27	15.79

LTE CA band 7C- EIRP

Limits: ≤33 dBm (2W)

Max EIRP: 24.67dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = 0.5dBi
				Size	Offset	Size	Offset		
10MHz/ 20MHz	2525.6	2540	QPSK	1	49	1	0	23.98	24.48
				50	0	100	0	22.23	22.73
			16QAM	1	49	1	0	23.19	23.69
				50	0	100	0	21.25	21.75
			64QAM	1	49	1	0	22	22.5
				50	0	100	0	21.28	21.78
			256QAM	1	49	1	0	19.15	19.65
				50	0	100	0	19.29	19.79
15MHz/ 10MHz	2530.1	2542	QPSK	1	74	1	0	24.02	24.52
				75	0	50	0	22.12	22.62
			16QAM	1	74	1	0	23.21	23.71
				75	0	50	0	21.2	21.7
			64QAM	1	74	1	0	22.3	22.8
				75	0	50	0	21.21	21.71
			256QAM	1	74	1	0	19.32	19.82
				75	0	50	0	19.19	19.69
15MHz/ 15MHz	2527.5	2543	QPSK	1	74	1	0	24.04	24.54
				75	0	75	0	22.24	22.74
			16QAM	1	74	1	0	23.21	23.71
				75	0	75	0	21.24	21.74
			64QAM	1	74	1	0	22.28	22.78
				75	0	75	0	21.28	21.78
			256QAM	1	74	1	0	19.3	19.8
				75	0	75	0	19.27	19.77
15MHz/ 20MHz	2525.3	2542	QPSK	1	74	1	0	24.03	24.53
				75	0	100	0	22.27	22.77
			16QAM	1	74	1	0	23.25	23.75
				75	0	100	0	21.2	21.7
			64QAM	1	74	1	0	21.95	22.45
				75	0	100	0	21.34	21.84
			256QAM	1	74	1	0	19.16	19.66
				75	0	100	0	19.29	19.79
20MHz/ 10MHz	2530.1	2545	QPSK	1	99	1	0	24.12	24.62
				100	0	50	0	22.22	22.72

			16QAM	1	99	1	0	23.14	23.64
				100	0	50	0	21.24	21.74
			64QAM	1	99	1	0	22.37	22.87
				100	0	50	0	21.26	21.76
			256QAM	1	99	1	0	18.95	19.45
				100	0	50	0	19.22	19.72
20MHz/ 15MHz	2527.6	2545	QPSK	1	99	1	0	24.17	24.67
				100	0	75	0	22.22	22.72
			16QAM	1	99	1	0	23.37	23.87
				100	0	75	0	21.3	21.8
			64QAM	1	99	1	0	22.35	22.85
				100	0	75	0	21.27	21.77
			256QAM	1	99	1	0	19.4	19.9
				100	0	75	0	19.23	19.73
20MHz/ 20MHz	2525.1	2545	QPSK	1	99	1	0	24.16	24.66
				100	0	100	0	22.33	22.83
			16QAM	1	99	1	0	23.02	23.52
				100	0	100	0	21.3	21.8
			64QAM	1	99	1	0	22.28	22.78
				100	0	100	0	21.29	21.79
			256QAM	1	99	1	0	19.4	19.9
				100	0	100	0	19.24	19.74

LTE CA band 41C- EIRP

Limits: ≤33 dBm (2W)

Max EIRP: 24.72dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = 0.5dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	2583.8	2595.5	QPSK	1	24	1	0	23.96	24.46
				25	0	100	0	22.05	22.55
			16QAM	1	24	1	0	23.13	23.63
				25	0	100	0	21.12	21.62
			64QAM	1	24	1	0	22.05	22.55
				25	0	100	0	21.18	21.68
			256QAM	1	24	1	0	19.12	19.62
				25	0	100	0	19.06	19.56
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.96	24.46
				50	0	75	0	22.14	22.64
			16QAM	1	49	1	0	23.06	23.56
				50	0	75	0	21.1	21.6
			64QAM	1	49	1	0	21.87	22.37
				50	0	75	0	21.09	21.59
			256QAM	1	49	1	0	19.05	19.55
				50	0	75	0	19.13	19.63
10MHz/ 20MHz	2583.6	2598	QPSK	1	49	1	0	23.97	24.47
				50	0	100	0	22.11	22.61
			16QAM	1	49	1	0	23.07	23.57
				50	0	100	0	21.16	21.66
			64QAM	1	49	1	0	21.97	22.47
				50	0	100	0	21.19	21.69
			256QAM	1	49	1	0	19.13	19.63
				50	0	100	0	19.21	19.71
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	24.08	24.58
				75	0	50	0	22.11	22.61
			16QAM	1	74	1	0	22.88	23.38
				75	0	50	0	21.19	21.69
			64QAM	1	74	1	0	22.24	22.74
				75	0	50	0	21.22	21.72
			256QAM	1	74	1	0	19.08	19.58
				75	0	50	0	19.25	19.75
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.98	24.48
				75	0	75	0	22.15	22.65

			16QAM	1	74	1	0	22.77	23.27
				75	0	75	0	21.13	21.63
			64QAM	1	74	1	0	22.12	22.62
				75	0	75	0	21.24	21.74
			256QAM	1	74	1	0	19.03	19.53
				75	0	75	0	19.15	19.65
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.88	24.38
				75	0	100	0	22.15	22.65
			16QAM	1	74	1	0	22.81	23.31
				75	0	100	0	21.16	21.66
			64QAM	1	74	1	0	21.88	22.38
				75	0	100	0	21.21	21.71
			256QAM	1	74	1	0	19.08	19.58
				75	0	100	0	19.12	19.62
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	24.11	24.61
				100	0	25	0	22.17	22.67
			16QAM	1	99	1	0	22.99	23.49
				100	0	25	0	21.11	21.61
			64QAM	1	99	1	0	22.35	22.85
				100	0	25	0	21.12	21.62
			256QAM	1	99	1	0	19.03	19.53
				100	0	25	0	19.09	19.59
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	24.22	24.72
				100	0	50	0	22.19	22.69
			16QAM	1	99	1	0	23	23.5
				100	0	50	0	21.12	21.62
			64QAM	1	99	1	0	22.32	22.82
				100	0	50	0	21.12	21.62
			256QAM	1	99	1	0	19.06	19.56
				100	0	50	0	19.12	19.62
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	24.02	24.52
				100	0	75	0	22.18	22.68
			16QAM	1	99	1	0	23.15	23.65
				100	0	75	0	21.18	21.68
			64QAM	1	99	1	0	22.34	22.84
				100	0	75	0	21.23	21.73
			256QAM	1	99	1	0	19.42	19.92
				100	0	75	0	19.19	19.69
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	24.04	24.54
				100	0	100	0	22.19	22.69
			16QAM	1	99	1	0	22.94	23.44

				100	0	100	0	21.18	21.68
			64QAM	1	99	1	0	22.33	22.83
				100	0	100	0	21.28	21.78
			256QAM	1	99	1	0	18.91	19.41
				100	0	100	0	19.14	19.64

LTE CA band 66C- EIRP

Limits: ≤30dBm (1W)

Max EIRP: 23.71dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = 0.5dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.19	23.69
				25	0	100	0	21.4	21.9
			16QAM	1	24	1	0	22.34	22.84
				25	0	100	0	20.28	20.78
			64QAM	1	24	1	0	21.19	21.69
				25	0	100	0	20.35	20.85
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	24	1	0	18.39	18.89
				25	0	100	0	18.33	18.83
			16QAM	1	49	1	0	23.21	23.71
				50	0	75	0	21.34	21.84
			64QAM	1	49	1	0	22.37	22.87
				50	0	75	0	20.33	20.83
10MHz/ 20MHz	1745.6	1760	QPSK	1	49	1	0	21.02	21.52
				50	0	75	0	20.37	20.87
			16QAM	1	49	1	0	18.29	18.79
				50	0	75	0	18.38	18.88
			64QAM	1	49	1	0	23.15	23.65
				50	0	100	0	21.38	21.88
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	49	1	0	22.35	22.85
				50	0	100	0	20.35	20.85
			16QAM	1	49	1	0	21.16	21.66
				50	0	100	0	20.37	20.87
			64QAM	1	49	1	0	18.37	18.87
				50	0	100	0	18.4	18.9
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.04	23.54
				75	0	50	0	21.32	21.82
			16QAM	1	74	1	0	22.13	22.63
				75	0	50	0	20.3	20.8
			64QAM	1	74	1	0	20.93	21.43
				75	0	50	0	20.36	20.86
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	18.2	18.7
				75	0	50	0	18.35	18.85
			16QAM	1	74	1	0	23.02	23.52
				75	0	75	0	21.3	21.8

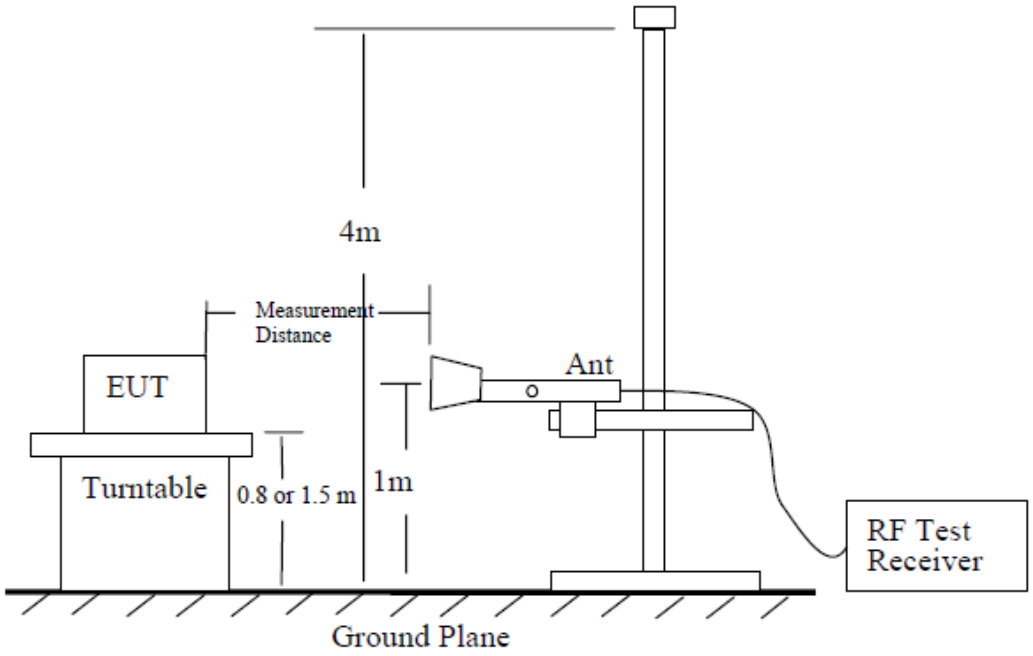
			64QAM	1	74	1	0	21.88	22.38
				75	0	75	0	20.3	20.8
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	74	1	0	20.98	21.48
				75	0	75	0	20.39	20.89
			16QAM	1	74	1	0	18.25	18.75
				75	0	75	0	18.38	18.88
			64QAM	1	74	1	0	23.09	23.59
				75	0	100	0	21.32	21.82
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	74	1	0	22.24	22.74
				75	0	100	0	20.32	20.82
			16QAM	1	74	1	0	21.03	21.53
				75	0	100	0	20.38	20.88
			64QAM	1	74	1	0	18.31	18.81
				75	0	100	0	18.35	18.85
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.19	23.69
				100	0	25	0	21.36	21.86
			16QAM	1	99	1	0	22.34	22.84
				100	0	25	0	20.37	20.87
			64QAM	1	99	1	0	21.37	21.87
				100	0	25	0	20.43	20.93
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	18.3	18.8
				100	0	25	0	18.39	18.89
			16QAM	1	99	1	0	23.21	23.71
				100	0	50	0	21.37	21.87
			64QAM	1	99	1	0	22.1	22.6
				100	0	50	0	20.4	20.9

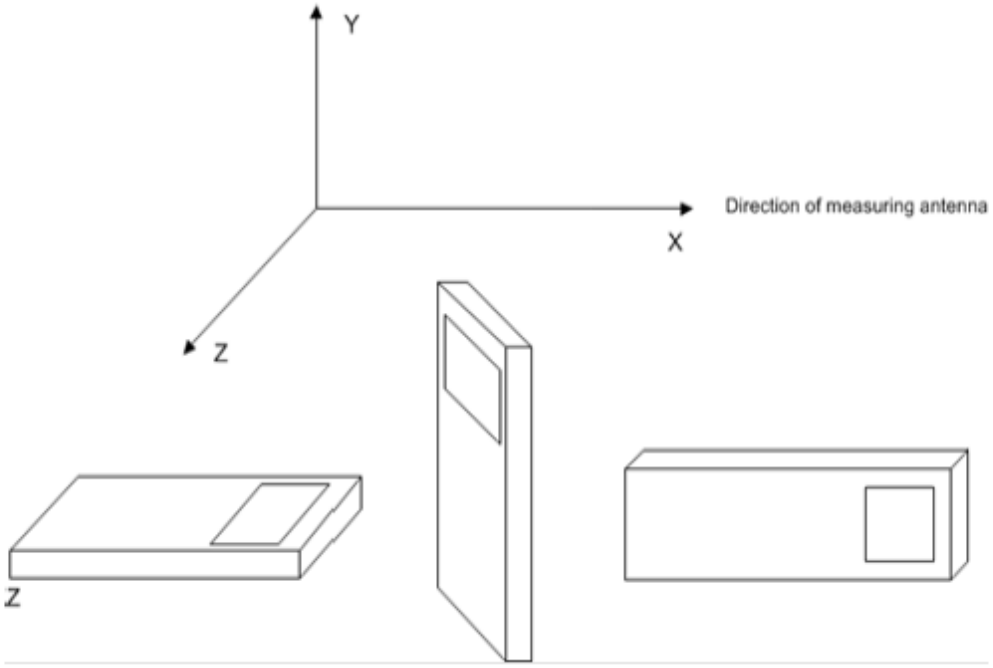
Note: Expanded measurement uncertainty is U = 0.578 dB, k = 2.

A.2 Emission Limit

The measurements procedures in C63.26 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 the LTE Bands 7/12/13/25/26/41/66/71.

The procedure of radiated spurious emissions is as follows:
Using the test configuration as follow, measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits.





The emission characteristics of the EUT can be identified from the pre-scan measurement information.

Exploratory radiated measurements (pre-scans) may be performed to determine the general EUT radiated emissions characteristics and, when necessary, the EUT-to-measurement antenna orientation that produces the maximum emission amplitude. Pre-scans shall only be used to determine the emission frequencies (i.e., not amplitude levels). The information garnered from a pre-scan can then be used to perform final compliance measurements using either the substitution or direct field strength method.

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. When maximizing the emissions from the EUT for measurement, the EUT and its transmitting antenna(s) shall be rotated through 360°. For each mode of operation to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

Final measurements shall be performed for the worst case combination(s) of variable technical parameters that result in the maximum measured emission amplitude, record the frequency and amplitude of the highest fundamental emission (if applicable), and the frequency and amplitude data for the six highest-amplitude spurious emissions.

A.2.2 Measurement Limit

FDD Band 7/41: 27.53(m) (4) 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 12/71: 27.53(g) specifies " 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 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 ".

FDD Band 13: 27.53(f) specifies " For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation. ".

FDD Band 25/2: 24.238 specify 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 26(814MHz-824MHz) Part 90.691 specifies " 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 $116Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ 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 + $10Log_{10}(P)$ 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)/5 Part 22.917 specifies " Out of band emissions. 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 66: 27.53(h) specifies "AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and

2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 $\log_{10}$ (P) dB”

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the LTE Bands. 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 the LTE Bands 7/12/13/25/26/41//66/71 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.

Measurement Results:

LTE Band 7, 5MHz, QPSK, Channel 20775

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5012.02	-60.06	6.58	11.32	-55.32	-25.00	30.32	H
7500.01	-51.19	8.39	10.30	-49.28	-25.00	24.28	V
10000.01	-50.89	9.18	11.90	-48.17	-25.00	23.17	V
12493.01	-47.46	10.19	13.31	-44.34	-25.00	19.34	H
15019.00	-42.74	11.24	14.52	-39.46	-25.00	14.46	H
17504.00	-37.91	12.74	13.01	-37.64	-25.00	12.64	H

LTE Band 7, 5MHz, QPSK, Channel 21100

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5087.02	-59.90	6.74	11.47	-55.17	-25.00	30.17	V
7616.01	-50.80	8.05	10.43	-48.42	-25.00	23.42	V
10124.01	-51.21	9.42	12.00	-48.63	-25.00	23.63	H
12684.01	-47.37	10.33	13.13	-44.57	-25.00	19.57	V
15216.00	-44.71	11.38	14.92	-41.17	-25.00	16.17	V
17761.00	-38.24	12.52	13.54	-37.22	-25.00	12.22	H

LTE Band 7, 5MHz, QPSK, Channel 21425

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5133.02	-59.40	6.86	11.57	-54.69	-25.00	29.69	H
7697.01	-52.75	8.41	10.69	-50.47	-25.00	25.47	H
10279.01	-48.40	9.57	12.00	-45.97	-25.00	20.97	V
12827.01	-46.21	10.70	12.87	-44.04	-25.00	19.04	V
15419.00	-45.07	11.42	15.14	-41.35	-25.00	16.35	V
17971.00	-38.12	12.89	13.40	-37.61	-25.00	12.61	V

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1332.01	-58.79	3.15	7.19	2.15	-56.90	-13.00	43.90	H
1995.01	-52.07	4.04	7.66	2.15	-50.60	-13.00	37.60	H
2678.00	-47.45	4.77	9.80	2.15	-44.57	-13.00	31.57	H
3349.02	-62.66	5.32	10.50	2.15	-59.63	-13.00	46.63	V
4033.02	-58.65	6.05	10.40	2.15	-56.45	-13.00	43.45	H
4691.02	-59.12	6.50	11.18	2.15	-56.59	-13.00	43.59	H

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1418.01	-58.22	3.26	7.84	2.15	-55.79	-13.00	42.79	H
2132.00	-52.73	4.22	8.35	2.15	-50.75	-13.00	37.75	V
2821.00	-48.65	4.94	10.58	2.15	-45.16	-13.00	32.16	H
3542.02	-60.73	5.74	10.60	2.15	-58.02	-13.00	45.02	V
4234.02	-58.50	6.25	10.57	2.15	-56.33	-13.00	43.33	H
4962.01	-58.33	6.67	11.22	2.15	-55.93	-13.00	42.93	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1444.01	-57.51	3.30	7.89	2.15	-55.07	-13.00	42.07	H
2145.00	-51.66	4.24	8.53	2.15	-49.52	-13.00	36.52	H
2876.00	-49.08	4.97	10.75	2.15	-45.45	-13.00	32.45	H
3590.02	-59.82	6.24	10.60	2.15	-57.61	-13.00	44.61	V
4304.02	-58.69	6.19	10.82	2.15	-56.21	-13.00	43.21	V
5017.01	-58.07	6.57	11.33	2.15	-55.46	-13.00	42.46	H

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1563.10	-70.21	3.48	9.13	0.00	-66.71	-40.00	26.71	H
2336.22	-52.91	4.44	10.07	2.15	-49.43	-13.00	36.43	H
3114.52	-61.84	5.37	10.24	2.15	-59.12	-13.00	46.12	H
3895.02	-59.94	6.11	10.40	2.15	-57.80	-13.00	44.80	V
4677.52	-59.96	6.49	11.16	2.15	-57.44	-13.00	44.44	V
5455.01	-57.98	6.89	11.29	2.15	-55.73	-13.00	42.73	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.92	-70.18	3.47	9.10	0.00	-66.70	-40.00	26.70	H
2350.18	-52.85	4.46	10.10	2.15	-49.36	-13.00	36.36	H
3128.02	-61.34	5.40	10.19	2.15	-58.70	-13.00	45.70	H
3908.02	-60.36	6.11	10.38	2.15	-58.24	-13.00	45.24	V
4694.52	-59.52	6.50	11.19	2.15	-56.98	-13.00	43.98	V
5475.51	-57.65	6.97	11.25	2.15	-55.52	-13.00	42.52	V

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1582.70	-70.29	3.50	9.33	0.00	-66.61	-40.00	26.61	H
2358.99	-52.84	4.47	10.15	2.15	-49.31	-13.00	36.31	V
3141.52	-60.61	5.38	10.13	2.15	-58.01	-13.00	45.01	V
3927.02	-60.04	6.12	10.35	2.15	-57.96	-13.00	44.96	V
4707.02	-58.27	6.51	11.23	2.15	-55.70	-13.00	42.70	V
5486.51	-56.40	7.01	11.23	2.15	-54.33	-13.00	41.33	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7422.01	-50.20	8.18	10.14	-48.24	-13.00	35.24	V
9283.01	-49.46	9.11	11.63	-46.94	-13.00	33.94	V
10944.01	-46.36	9.80	12.43	-43.73	-13.00	30.73	V
13614.01	-41.14	10.81	12.54	-39.41	-13.00	26.41	H
15125.00	-43.31	11.36	14.68	-39.99	-13.00	26.99	V
17321.00	-36.49	12.40	13.72	-35.17	-13.00	22.17	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7487.01	-50.47	8.36	10.27	-48.56	-13.00	35.56	V
9373.01	-49.05	9.07	11.65	-46.47	-13.00	33.47	V
11249.01	-47.59	9.69	12.80	-44.48	-13.00	31.48	V
13136.01	-42.92	10.78	12.66	-41.04	-13.00	28.04	V
15095.00	-43.68	11.34	14.60	-40.42	-13.00	27.42	H
16907.00	-40.28	12.02	14.09	-38.21	-13.00	25.21	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7631.01	-52.41	8.11	10.46	-50.06	-13.00	37.06	V
9557.01	-51.21	9.34	11.90	-48.65	-13.00	35.65	V
11504.01	-47.25	9.81	12.70	-44.36	-13.00	31.36	V
13386.01	-41.84	10.57	12.43	-39.98	-13.00	26.98	V
15287.00	-44.42	11.29	14.99	-40.72	-13.00	27.72	H
17222.00	-37.73	12.35	13.64	-36.44	-13.00	23.44	H

LTE Band 26(814-824MHz), 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1635.01	-58.01	3.55	9.50	2.15	-54.21	-13.00	41.21	H
2481.00	-40.56	4.60	10.28	2.15	-37.03	-13.00	24.03	V
3284.02	-63.93	5.28	10.37	2.15	-60.99	-13.00	47.99	H
4125.02	-57.43	6.04	10.40	2.15	-55.22	-13.00	42.22	V
4942.01	-57.15	6.70	11.23	2.15	-54.77	-13.00	41.77	H
5778.01	-56.24	7.22	11.04	2.15	-54.57	-13.00	41.57	V

LTE Band 26(814-824MHz), 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1670.01	-58.37	3.58	9.54	2.15	-54.56	-13.00	41.56	H
2527.00	-49.87	4.65	10.15	2.15	-46.52	-13.00	33.52	H
3351.02	-63.32	5.32	10.50	2.15	-60.29	-13.00	47.29	V
4164.02	-58.08	6.12	10.43	2.15	-55.92	-13.00	42.92	V
5027.01	-57.98	6.57	11.35	2.15	-55.35	-13.00	42.35	H
5845.01	-56.32	7.22	10.82	2.15	-54.87	-13.00	41.87	V

LTE Band 26(814-824MHz), 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1680.01	-58.36	3.59	9.56	2.15	-54.54	-13.00	41.54	H
2525.00	-48.71	4.65	10.15	2.15	-45.36	-13.00	32.36	H
3382.02	-62.25	5.35	10.50	2.15	-59.25	-13.00	46.25	V
4222.02	-58.25	6.26	10.54	2.15	-56.12	-13.00	43.12	V
5094.01	-57.71	6.76	11.49	2.15	-55.13	-13.00	42.13	H
5941.01	-55.45	7.47	10.50	2.15	-54.57	-13.00	41.57	V

LTE Band 26(824-849MHz), 1.4MHz, QPSK, Channel 26997

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1622.01	-57.64	3.54	9.50	2.15	-53.83	-13.00	40.83	H
2427.00	-41.93	4.55	10.40	2.15	-38.23	-13.00	25.23	H
3263.02	-62.56	5.28	10.33	2.15	-59.66	-13.00	46.66	H
4084.02	-56.98	6.04	10.40	2.15	-54.77	-13.00	41.77	V
4887.01	-58.20	6.73	11.40	2.15	-55.68	-13.00	42.68	V
5720.01	-55.57	7.30	11.16	2.15	-53.86	-13.00	40.86	V

LTE Band 26(824-849MHz), 1.4MHz, QPSK, Channel 26740

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1631.01	-58.07	3.55	9.50	2.15	-54.27	-13.00	41.27	H
2475.00	-51.41	4.60	10.30	2.15	-47.86	-13.00	34.86	V
3287.02	-63.60	5.28	10.37	2.15	-60.66	-13.00	47.66	H
4102.02	-58.44	6.04	10.40	2.15	-56.23	-13.00	43.23	V
4897.01	-58.02	6.73	11.40	2.15	-55.50	-13.00	42.50	V
5726.01	-56.71	7.30	11.15	2.15	-55.01	-13.00	42.01	V

LTE Band 26(824-849MHz), 1.4MHz, QPSK, Channel 26783

Frequency (MHz)	P_{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1822.01	-56.38	3.79	9.57	2.15	-52.75	-13.00	39.75	V
2480.00	-28.00	4.60	10.28	2.15	-24.47	-13.00	11.47	H
3108.02	-60.85	5.35	10.27	2.15	-58.08	-13.00	45.08	V
4138.02	-56.76	6.07	10.40	2.15	-54.58	-13.00	41.58	V
5099.01	-56.93	6.77	11.50	2.15	-54.35	-13.00	41.35	V
5662.01	-55.42	7.28	11.20	2.15	-53.65	-13.00	40.65	V